APPENDIX C

CALEEMOD

Legacy Ranch Project Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

2.2.2. Onsite Construction Emissions by Year, Unmitigated

2.2.3. Offsite Construction Emissions by Year, Unmitigated

2.3. Operations Emissions Compared Against Thresholds

2.4. Operations Emissions by Sector, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2029)

3.1.1. Onsite - Unmitigated

3.1.2. Offsite - Unmitigated

3.2. Site Preparation (2029)

3.2.1. Onsite - Unmitigated

3.2.2. Offsite - Unmitigated

3.3. Site Preparation (2030)

3.3.1. Onsite - Unmitigated

3.3.2. Offsite - Unmitigated

3.4. Grading (2030)

3.4.1. Onsite - Unmitigated

3.4.2. Offsite - Unmitigated

3.5. Building Construction (2030)

3.5.1. Onsite - Unmitigated

3.5.2. Offsite - Unmitigated

3.6. Building Construction (2031)

3.6.1. Onsite - Unmitigated

3.6.2. Offsite - Unmitigated

3.7. Paving (2031)

3.7.1. Onsite - Unmitigated

3.7.2. Offsite - Unmitigated

3.8. Paving (2032)

3.8.1. Onsite - Unmitigated

3.8.2. Offsite - Unmitigated

3.9. Architectural Coating (2032)

3.9.1. Onsite - Unmitigated

3.9.2. Offsite - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

8. User Changes to Default Data

8.1. Justifications

8.3. Land Use

8.4. Construction

8.4.1. Construction Phases

8.4.2. Off-Road Equipment

8.4.4. Dust from Material Movement

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

8.5.2. Area Sources

8.5.2.1. Hearths

8.5.3. Energy Usage

8.5.4. Water and Waste Water

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Legacy Ranch Project
Construction Start Date	6/4/2029
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50000
Precipitation (days)	13.6000
Location	30291 Camino Capistrano, San Juan Capistrano, CA 92675, USA
County	Orange
City	San Juan Capistrano
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6010
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	Southern California Gas
App Version	2022.1.1.43

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
Place of Worship	3.00000	1000sqft	0.06887	3,000.00	0.00000	—	—	Chapel

Single Family Housing	6.30000	Dwelling Unit	2.04545	12,285.0	0.00000	—	19.0000	Ranch House
Medical Office Building	49.8400	1000sqft	1.14417	49,840.0	0.00000	—	—	Horse and veterinary barn
Arena	88.6000	1000sqft	12.2480	88,600.0	0.00000	—	9.00000	Roping and Warm Up Arenas
Single Family Housing	1.000000	Dwelling Unit	0.32468	2,300.00	11,713.0	—	3.00000	Caretaker Residence
General Office Building	3.00000	1000sqft	0.06887	3,000.00	0.00000	—	—	Agricultural builidng
High Turnover (Sit Down Restaurant)	6.00000	1000sqft	0.13774	6,000.00	0.00000	—	—	Catering facility
General Office Building	7.20000	1000sqft	0.16529	7,200.00	0.00000	—	—	Event Barns
General Office Building	10.00000	1000sqft	0.22957	10,000.00	0.00000	—	—	Community Building
Parking Lot	802.000	Space	7.41000	0.00000	0.00000	—	—	Parking area/non-permeable paved area
Other Non-Asphalt Surfaces	4.94000	Acre	4.94000	0.00000	0.00000	—	—	Permeable pavement area
City Park	32.7300	Acre	32.7300	0.00000	1,394,000	1,394,000	—	Landscape Area
High Turnover (Sit Down Restaurant)	2.50000	1000sqft	0.05739	2,500.00	0.00000	—	—	Food Service Area

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.2898	30.3859	36.1780	0.06088	1.25103	7.89497	8.83522	1.12221	3.99357	4.83422	—	6,835.68	6,835.68	0.26962	0.13789	6,859.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.2898	30.3950	36.0601	0.06088	1.25103	7.89497	8.83522	1.12221	3.99357	4.83422	—	6,823.97	6,823.97	0.27006	0.13789	6,847.07
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.05171	17.8201	21.5039	0.03626	0.72595	2.84102	3.23312	0.65225	1.43318	1.77335	—	4,195.08	4,195.08	0.16299	0.08698	4,215.77
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.92194	3.25216	3.92445	0.00662	0.13249	0.51849	0.59004	0.11903	0.26156	0.32364	—	694.544	694.544	0.02698	0.01440	697.969

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.94327	24.0726	29.0755	0.04889	0.94025	7.89497	8.83522	0.84065	3.99357	4.83422	—	5,512.33	5,512.33	0.21714	0.04412	5,531.47
2030	1.23012	30.3859	36.1780	0.06088	1.25103	3.85082	5.10185	1.12221	1.48624	2.60845	—	6,835.68	6,835.68	0.26962	0.13789	6,859.32
2031	0.71428	13.4875	17.8293	0.02984	0.54039	1.12210	1.66249	0.49118	0.27329	0.76448	—	3,987.75	3,987.75	0.14115	0.13789	4,035.36
2032	20.2898	1.11003	1.46366	0.00173	0.06578	0.17537	0.24115	0.06108	0.04111	0.10219	—	291.948	291.948	0.00689	0.00197	293.002
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.94250	24.0733	28.9664	0.04889	0.94025	7.89497	8.83522	0.84065	3.99357	4.83422	—	5,501.91	5,501.91	0.21714	0.05126	5,522.63

2030	1.22968	30.3950	36.0601	0.06088	1.25103	7.89497	8.83522	1.12221	3.99357	4.83422	—	6,823.97	6,823.97	0.27006	0.13789	6,847.07
2031	0.71217	13.5218	17.4654	0.02984	0.54039	1.12210	1.66249	0.49118	0.27329	0.76448	—	3,949.65	3,949.65	0.14263	0.13789	3,994.39
2032	20.2898	8.65069	11.0815	0.01395	0.39144	0.19606	0.58750	0.35848	0.04596	0.40444	—	1,679.26	1,679.26	0.06293	0.01325	1,684.79
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.37897	9.57699	11.4150	0.01932	0.37993	2.84102	3.22094	0.34016	1.43318	1.77335	—	2,172.26	2,172.26	0.08571	0.02081	2,180.71
2030	0.75210	17.8201	21.5039	0.03626	0.72595	2.50717	3.23312	0.65225	1.00903	1.66127	—	4,195.08	4,195.08	0.16299	0.05438	4,215.77
2031	0.50308	9.18026	11.9067	0.01980	0.37076	0.70952	1.08028	0.33724	0.17261	0.50985	—	2,612.49	2,612.49	0.09433	0.08698	2,641.59
2032	5.05171	0.90157	1.15252	0.00144	0.04456	0.05694	0.10150	0.04102	0.01334	0.05436	—	192.374	192.374	0.00626	0.00145	193.002
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.06916	1.74780	2.08323	0.00353	0.06934	0.51849	0.58782	0.06208	0.26156	0.32364	—	359.643	359.643	0.01419	0.00345	361.041
2030	0.13726	3.25216	3.92445	0.00662	0.13249	0.45756	0.59004	0.11903	0.18415	0.30318	—	694.544	694.544	0.02698	0.00900	697.969
2031	0.09181	1.67540	2.17298	0.00361	0.06766	0.12949	0.19715	0.06155	0.03150	0.09305	—	432.528	432.528	0.01562	0.01440	437.345
2032	0.92194	0.16454	0.21034	0.00026	0.00813	0.01039	0.01852	0.00749	0.00243	0.00992	—	31.8496	31.8496	0.00104	0.00024	31.9537

2.2.2. Onsite 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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.89640	24.0280	28.3078	0.04889	0.94025	7.66623	8.60648	0.84065	3.93995	4.78060	—	5,296.00	5,296.00	0.21483	0.04297	5,314.17
2030	1.17875	30.3436	35.3475	0.06088	1.25103	3.58940	4.84043	1.12221	1.42496	2.54717	—	6,592.40	6,592.40	0.26742	0.05348	6,615.02
2031	0.53304	12.5995	14.8207	0.02340	0.53394	0.00000	0.53394	0.48474	0.00000	0.48474	—	2,396.83	2,396.83	0.09723	0.01945	2,405.06
2032	20.2583	1.08770	0.96319	0.00173	0.06578	0.00000	0.06578	0.06108	0.00000	0.06108	—	133.504	133.504	0.00542	0.00108	133.962
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.89640	24.0280	28.3078	0.04889	0.94025	7.66623	8.60648	0.84065	3.93995	4.78060	—	5,296.00	5,296.00	0.21483	0.04297	5,314.17
2030	1.17875	30.3436	35.3475	0.06088	1.25103	7.66623	8.60648	1.12221	3.93995	4.78060	—	6,592.40	6,592.40	0.26742	0.05348	6,615.02

2031	0.63945	12.5995	14.8207	0.02340	0.53394	0.00000	0.53394	0.48474	0.00000	0.48474	—	2,396.83	2,396.83	0.09723	0.01945	2,405.06
2032	20.2583	8.61894	10.6002	0.01395	0.39144	0.00000	0.39144	0.35848	0.00000	0.35848	—	1,510.63	1,510.63	0.06128	0.01226	1,515.81
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.36040	9.55463	11.1334	0.01929	0.37988	2.74823	3.12811	0.34012	1.41140	1.75152	—	2,084.38	2,084.38	0.08455	0.01691	2,091.53
2030	0.68946	17.6010	20.5556	0.03500	0.72469	2.15853	2.88322	0.65098	0.92534	1.57633	—	3,763.04	3,763.04	0.15265	0.03053	3,775.95
2031	0.38802	8.59977	10.1565	0.01579	0.36675	0.00000	0.36675	0.33323	0.00000	0.33323	—	1,624.60	1,624.60	0.06590	0.01318	1,630.18
2032	5.04149	0.89227	1.00503	0.00144	0.04456	0.00000	0.04456	0.04102	0.00000	0.04102	—	142.299	142.299	0.00577	0.00115	142.787
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.06577	1.74372	2.03185	0.00352	0.06933	0.50155	0.57088	0.06207	0.25758	0.31965	—	345.092	345.092	0.01400	0.00280	346.277
2030	0.12583	3.21219	3.75141	0.00639	0.13226	0.39393	0.52619	0.11880	0.16888	0.28768	—	623.014	623.014	0.02527	0.00505	625.152
2031	0.07081	1.56946	1.85356	0.00288	0.06693	0.00000	0.06693	0.06081	0.00000	0.06081	—	268.971	268.971	0.01091	0.00218	269.894
2032	0.92007	0.16284	0.18342	0.00026	0.00813	0.00000	0.00813	0.00749	0.00000	0.00749	—	23.5592	23.5592	0.00096	0.00019	23.6401

2.2.3. Offsite 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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.04688	0.10792	0.76776	0.00044	0.00084	0.22874	0.22874	0.00084	0.05362	0.05362	—	246.258	246.258	0.00605	0.01088	250.237
2030	0.19012	0.91906	3.17940	0.00645	0.00645	1.12210	1.12855	0.00645	0.27329	0.27974	—	1,630.33	1,630.33	0.04456	0.11845	1,670.14
2031	0.18124	0.88801	3.00859	0.00645	0.00645	1.12210	1.12855	0.00645	0.27329	0.27974	—	1,590.92	1,590.92	0.04392	0.11845	1,630.30
2032	0.03150	0.02233	0.50047	0.00000	0.00000	0.17537	0.17537	0.00000	0.04111	0.04111	—	158.445	158.445	0.00148	0.00089	159.040
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.04610	0.04533	0.65858	0.00000	0.00000	0.22874	0.22874	0.00000	0.05362	0.05362	—	205.909	205.909	0.00231	0.00829	208.454
2030	0.18801	0.98073	2.79201	0.00645	0.00645	1.12210	1.12855	0.00645	0.27329	0.27974	—	1,591.56	1,591.56	0.04603	0.11845	1,628.10
2031	0.17913	0.92231	2.64475	0.00645	0.00645	1.12210	1.12855	0.00645	0.27329	0.27974	—	1,552.82	1,552.82	0.04540	0.11845	1,589.33

2032	0.03522	0.03175	0.48132	0.00000	0.00000	0.19606	0.19606	0.00000	0.04596	0.04596	—	168.635	168.635	0.00165	0.00099	168.981
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.01857	0.02236	0.28156	0.00002	0.00005	0.09279	0.09283	0.00005	0.02178	0.02183	—	87.8846	87.8846	0.00116	0.00390	89.1776
2030	0.06264	0.21903	0.94821	0.00126	0.00126	0.34864	0.34990	0.00126	0.08368	0.08494	—	432.045	432.045	0.01035	0.02385	439.823
2031	0.11506	0.58049	1.75020	0.00401	0.00401	0.70952	0.71353	0.00401	0.17261	0.17662	—	987.894	987.894	0.02843	0.07380	1,011.41
2032	0.01022	0.00930	0.14750	0.00000	0.00000	0.05694	0.05694	0.00000	0.01334	0.01334	—	50.0747	50.0747	0.00048	0.00029	50.2150
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.00339	0.00408	0.05139	< 0.000005	0.00001	0.01693	0.01694	0.00001	0.00397	0.00398	—	14.5503	14.5503	0.00019	0.00065	14.7644
2030	0.01143	0.03997	0.17305	0.00023	0.00023	0.06363	0.06386	0.00023	0.01527	0.01550	—	71.5301	71.5301	0.00171	0.00395	72.8177
2031	0.02100	0.10594	0.31941	0.00073	0.00073	0.12949	0.13022	0.00073	0.03150	0.03223	—	163.557	163.557	0.00471	0.01222	167.451
2032	0.00187	0.00170	0.02692	0.00000	0.00000	0.01039	0.01039	0.00000	0.00243	0.00243	—	8.29044	8.29044	0.00008	0.00005	8.31366

2.3. 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.	9.63232	2.40493	33.2756	0.07489	0.33964	6.89294	7.23258	0.32473	1.74937	2.07410	437.736	10,427.8	10,865.6	40.1998	0.33298	11,996.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.36702	2.49512	23.8786	0.07190	0.32633	6.89294	7.21926	0.31467	1.74937	2.06403	437.736	10,140.5	10,578.2	40.2088	0.34382	11,701.5
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.00936	2.40401	28.0129	0.06667	0.08748	6.83281	6.92029	0.08243	1.73433	1.81677	397.605	10,073.1	10,470.7	40.0174	0.34432	11,594.0
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1.64421	0.43873	5.11235	0.01217	0.01597	1.24699	1.26295	0.01504	0.31652	0.33156	65.8281	1,667.71	1,733.54	6.62534	0.05701	1,919.52

2.4. 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	2.86940	1.81530	23.3538	0.06554	0.03219	6.89294	6.92513	0.03002	1.74937	1.77939	—	6,690.07	6,690.07	0.27311	0.25028	6,783.16
Area	6.74272	0.22889	9.66191	0.00715	0.27953	—	0.27953	0.26679	—	0.26679	43.0820	201.115	244.197	0.20592	0.00059	249.521
Energy	0.02021	0.36074	0.25987	0.00220	0.02792	—	0.02792	0.02792	—	0.02792	—	3,049.49	3,049.49	0.18509	0.01856	3,059.65
Water	—	—	—	—	—	—	—	—	—	—	24.7282	487.143	511.871	2.56289	0.06355	594.882
Waste	—	—	—	—	—	—	—	—	—	—	369.926	0.00000	369.926	36.9728	0.00000	1,294.25
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.2782
Total	9.63232	2.40493	33.2756	0.07489	0.33964	6.89294	7.23258	0.32473	1.74937	2.07410	437.736	10,427.8	10,865.6	40.1998	0.33298	11,996.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.85604	1.97159	21.7726	0.06301	0.03221	6.89294	6.92514	0.03003	1.74937	1.77940	—	6,434.27	6,434.27	0.28346	0.26139	6,519.55
Area	5.49077	0.16279	1.84609	0.00669	0.26620	—	0.26620	0.25671	—	0.25671	43.0820	169.579	212.661	0.20459	0.00032	217.871
Energy	0.02021	0.36074	0.25987	0.00220	0.02792	—	0.02792	0.02792	—	0.02792	—	3,049.49	3,049.49	0.18509	0.01856	3,059.65
Water	—	—	—	—	—	—	—	—	—	—	24.7282	487.143	511.871	2.56289	0.06355	594.882
Waste	—	—	—	—	—	—	—	—	—	—	369.926	0.00000	369.926	36.9728	0.00000	1,294.25
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.2782
Total	8.36702	2.49512	23.8786	0.07190	0.32633	6.89294	7.21926	0.31467	1.74937	2.06403	437.736	10,140.5	10,578.2	40.2088	0.34382	11,701.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.83170	1.98685	22.2733	0.06369	0.03220	6.83281	6.86501	0.03003	1.73433	1.76436	—	6,503.22	6,503.22	0.28172	0.26200	6,593.38
Area	6.15746	0.05643	5.47974	0.00077	0.02736	—	0.02736	0.02448	—	0.02448	2.95082	33.2152	36.1660	0.01492	0.00021	36.6007
Energy	0.02021	0.36074	0.25987	0.00220	0.02792	—	0.02792	0.02792	—	0.02792	—	3,049.49	3,049.49	0.18509	0.01856	3,059.65

Water	—	—	—	—	—	—	—	—	—	—	24.7282	487.143	511.871	2.56289	0.06355	594.882
Waste	—	—	—	—	—	—	—	—	—	—	369.926	0.00000	369.926	36.9728	0.00000	1,294.25
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.2782
Total	9.00936	2.40401	28.0129	0.06667	0.08748	6.83281	6.92029	0.08243	1.73433	1.81677	397.605	10,073.1	10,470.7	40.0174	0.34432	11,594.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.51678	0.36260	4.06487	0.01162	0.00588	1.24699	1.25286	0.00548	0.31652	0.32200	—	1,076.68	1,076.68	0.04664	0.04338	1,091.61
Area	1.12374	0.01030	1.00005	0.00014	0.00499	—	0.00499	0.00447	—	0.00447	0.48854	5.49915	5.98769	0.00247	0.00003	6.05966
Energy	0.00369	0.06583	0.04743	0.00040	0.00510	—	0.00510	0.00510	—	0.00510	—	504.878	504.878	0.03064	0.00307	506.560
Water	—	—	—	—	—	—	—	—	—	—	4.09404	80.6521	84.7461	0.42432	0.01052	98.4896
Waste	—	—	—	—	—	—	—	—	—	—	61.2455	0.00000	61.2455	6.12127	0.00000	214.277
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52947
Total	1.64421	0.43873	5.11235	0.01217	0.01597	1.24699	1.26295	0.01504	0.31652	0.33156	65.8281	1,667.71	1,733.54	6.62534	0.05701	1,919.52

3. Construction Emissions Details

3.1. Demolition (2029)

3.1.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71875	17.3319	18.1730	0.03253	0.78767	—	0.78767	0.71292	—	0.71292	—	3,426.75	3,426.75	0.13900	0.02780	3,438.51
Demolition	—	—	—	—	—	0.05086	0.05086	—	0.00770	0.00770	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03938	0.94969	0.99578	0.00178	0.04316	—	0.04316	0.03906	—	0.03906	—	187.767	187.767	0.00762	0.00152	188.412
Demolition	—	—	—	—	—	0.00279	0.00279	—	0.00042	0.00042	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00719	0.17332	0.18173	0.00033	0.00788	—	0.00788	0.00713	—	0.00713	—	31.0870	31.0870	0.00126	0.00025	31.1937
Demolition	—	—	—	—	—	0.00051	0.00051	—	0.00008	0.00008	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04018	0.03820	0.65808	0.00000	0.00000	0.19606	0.19606	0.00000	0.04596	0.04596	—	185.426	185.426	0.00198	0.00099	186.255
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00098	0.06972	0.03150	0.00044	0.00084	0.01719	0.01803	0.00084	0.00482	0.00566	—	60.8314	60.8314	0.00406	0.00989	63.9813
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00215	0.00213	0.03244	0.00000	0.00000	0.01065	0.01065	0.00000	0.00249	0.00249	—	9.80299	9.80299	0.00011	0.00039	9.93326
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00005	0.00399	0.00173	0.00002	0.00005	0.00094	0.00098	0.00005	0.00026	0.00031	—	3.33381	3.33381	0.00022	0.00054	3.50319
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00039	0.00039	0.00592	0.00000	0.00000	0.00194	0.00194	0.00000	0.00046	0.00046	—	1.62300	1.62300	0.00002	0.00006	1.64457
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00001	0.00073	0.00032	< 0.000005	0.00001	0.00017	0.00018	0.00001	0.00005	0.00006	—	0.55195	0.55195	0.00004	0.00009	0.57999

3.2. Site Preparation (2029)

3.2.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.89640	24.0280	28.3078	0.04889	0.94025	—	0.94025	0.84065	—	0.84065	—	5,296.00	5,296.00	0.21483	0.04297	5,314.17
Dust From Material Movement	—	—	—	—	—	7.66623	7.66623	—	3.93995	3.93995	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.89640	24.0280	28.3078	0.04889	0.94025	—	0.94025	0.84065	—	0.84065	—	5,296.00	5,296.00	0.21483	0.04297	5,314.17
Dust From Material Movement	—	—	—	—	—	7.66623	7.66623	—	3.93995	3.93995	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32102	8.60494	10.1376	0.01751	0.33672	—	0.33672	0.30105	—	0.30105	—	1,896.61	1,896.61	0.07693	0.01539	1,903.12
Dust From Material Movement	—	—	—	—	—	2.74544	2.74544	—	1.41098	1.41098	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05859	1.57040	1.85012	0.00320	0.06145	—	0.06145	0.05494	—	0.05494	—	314.005	314.005	0.01274	0.00255	315.083
Dust From Material Movement	—	—	—	—	—	0.50104	0.50104	—	0.25750	0.25750	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04688	0.04456	0.76776	0.00000	0.00000	0.22874	0.22874	0.00000	0.05362	0.05362	—	216.331	216.331	0.00231	0.00116	217.298
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04610	0.04533	0.65858	0.00000	0.00000	0.22874	0.22874	0.00000	0.05362	0.05362	—	205.909	205.909	0.00231	0.00829	208.454
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01637	0.01623	0.24739	0.00000	0.00000	0.08120	0.08120	0.00000	0.01902	0.01902	—	74.7478	74.7478	0.00083	0.00297	75.7411
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00299	0.00296	0.04515	0.00000	0.00000	0.01482	0.01482	0.00000	0.00347	0.00347	—	12.3754	12.3754	0.00014	0.00049	12.5398
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Site Preparation (2030)

3.3.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.89640	24.0280	28.3078	0.04889	0.94025	—	0.94025	0.84065	—	0.84065	—	5,295.67	5,295.67	0.21482	0.04296	5,313.84
Dust From Material Movement	—	—	—	—	—	7.66623	7.66623	—	3.93995	3.93995	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06841	1.83384	2.16048	0.00373	0.07176	—	0.07176	0.06416	—	0.06416	—	404.170	404.170	0.01639	0.00328	405.557
Dust From Material Movement	—	—	—	—	—	0.58509	0.58509	—	0.30070	0.30070	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01249	0.33468	0.39429	0.00068	0.01310	—	0.01310	0.01171	—	0.01171	—	66.9150	66.9150	0.00271	0.00054	67.1446
Dust From Material Movement	—	—	—	—	—	0.10678	0.10678	—	0.05488	0.05488	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04456	0.04495	0.62347	0.00000	0.00000	0.22874	0.22874	0.00000	0.05362	0.05362	—	202.623	202.623	0.00231	0.00116	203.039
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00340	0.00343	0.05004	0.00000	0.00000	0.01731	0.01731	0.00000	0.00405	0.00405	—	15.6753	15.6753	0.00018	0.00009	15.7225
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00062	0.00063	0.00913	0.00000	0.00000	0.00316	0.00316	0.00000	0.00074	0.00074	—	2.59523	2.59523	0.00003	0.00001	2.60304
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Grading (2030)

3.4.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17875	30.3436	35.3475	0.06088	1.25103	—	1.25103	1.12221	—	1.12221	—	6,592.40	6,592.40	0.26742	0.05348	6,615.02
Dust From Material Movement	—	—	—	—	—	3.58940	3.58940	—	1.42496	1.42496	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17875	30.3436	35.3475	0.06088	1.25103	—	1.25103	1.12221	—	1.12221	—	6,592.40	6,592.40	0.26742	0.05348	6,615.02
Dust From Material Movement	—	—	—	—	—	3.58940	3.58940	—	1.42496	1.42496	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51671	13.3013	15.4948	0.02669	0.54840	—	0.54840	0.49193	—	0.49193	—	2,889.82	2,889.82	0.11722	0.02344	2,899.74
Dust From Material Movement	—	—	—	—	—	1.57344	1.57344	—	0.62464	0.62464	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09430	2.42749	2.82780	0.00487	0.10008	—	0.10008	0.08978	—	0.08978	—	478.442	478.442	0.01941	0.00388	480.084
Dust From Material Movement	—	—	—	—	—	0.28715	0.28715	—	0.11400	0.11400	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05137	0.04233	0.83048	0.00000	0.00000	0.26142	0.26142	0.00000	0.06128	0.06128	—	243.278	243.278	0.00220	0.00132	244.297
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05093	0.05137	0.71253	0.00000	0.00000	0.26142	0.26142	0.00000	0.06128	0.06128	—	231.569	231.569	0.00265	0.00132	232.045
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02232	0.02252	0.32848	0.00000	0.00000	0.11359	0.11359	0.00000	0.02661	0.02661	—	102.894	102.894	0.00116	0.00058	103.204
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00407	0.00411	0.05995	0.00000	0.00000	0.02073	0.02073	0.00000	0.00486	0.00486	—	17.0353	17.0353	0.00019	0.00010	17.0866
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Building Construction (2030)

3.5.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53315	12.6007	14.8208	0.02340	0.53416	—	0.53416	0.48494	—	0.48494	—	2,396.83	2,396.83	0.09723	0.01945	2,405.06
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53315	12.6007	14.8208	0.02340	0.53416	—	0.53416	0.48494	—	0.48494	—	2,396.83	2,396.83	0.09723	0.01945	2,405.06
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10433	2.46588	2.90036	0.00458	0.10453	—	0.10453	0.09490	—	0.09490	—	469.048	469.048	0.01903	0.00381	470.657
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01904	0.45002	0.52931	0.00084	0.01908	—	0.01908	0.01732	—	0.01732	—	77.6562	77.6562	0.00315	0.00063	77.9227
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17229	0.14198	2.78555	0.00000	0.00000	0.87684	0.87684	0.00000	0.20553	0.20553	—	815.989	815.989	0.00739	0.00444	819.405
Vendor	0.01782	0.77709	0.39385	0.00645	0.00645	0.24527	0.25171	0.00645	0.06776	0.07421	—	814.337	814.337	0.03716	0.11401	850.734
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17082	0.17229	2.38994	0.00000	0.00000	0.87684	0.87684	0.00000	0.20553	0.20553	—	776.716	776.716	0.00887	0.00444	778.310
Vendor	0.01719	0.80843	0.40207	0.00645	0.00645	0.24527	0.25171	0.00645	0.06776	0.07421	—	814.846	814.846	0.03716	0.11401	849.789
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03343	0.03372	0.49186	0.00000	0.00000	0.17009	0.17009	0.00000	0.03985	0.03985	—	154.072	154.072	0.00174	0.00087	154.536
Vendor	0.00349	0.15937	0.07782	0.00126	0.00126	0.04764	0.04891	0.00126	0.01317	0.01443	—	159.403	159.403	0.00727	0.02231	166.361
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00610	0.00615	0.08977	0.00000	0.00000	0.03104	0.03104	0.00000	0.00727	0.00727	—	25.5084	25.5084	0.00029	0.00014	25.5852
Vendor	0.00064	0.02908	0.01420	0.00023	0.00023	0.00870	0.00893	0.00023	0.00240	0.00263	—	26.3911	26.3911	0.00120	0.00369	27.5429
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Building Construction (2031)

3.6.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53304	12.5995	14.8207	0.02340	0.53394	—	0.53394	0.48474	—	0.48474	—	2,396.83	2,396.83	0.09723	0.01945	2,405.06
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53304	12.5995	14.8207	0.02340	0.53394	—	0.53394	0.48474	—	0.48474	—	2,396.83	2,396.83	0.09723	0.01945	2,405.06
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33171	7.84077	9.22304	0.01456	0.33228	—	0.33228	0.30166	—	0.30166	—	1,491.57	1,491.57	0.06050	0.01210	1,496.69
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06054	1.43094	1.68320	0.00266	0.06064	—	0.06064	0.05505	—	0.05505	—	246.946	246.946	0.01002	0.00200	247.794

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16342	0.14050	2.62952	0.00000	0.00000	0.87684	0.87684	0.00000	0.20553	0.20553	—	803.852	803.852	0.00739	0.00444	807.041
Vendor	0.01782	0.74751	0.37906	0.00645	0.00645	0.24527	0.25171	0.00645	0.06776	0.07421	—	787.069	787.069	0.03653	0.11401	823.257
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16194	0.14346	2.25684	0.00000	0.00000	0.87684	0.87684	0.00000	0.20553	0.20553	—	765.229	765.229	0.00887	0.00444	766.816
Vendor	0.01719	0.77886	0.38791	0.00645	0.00645	0.24527	0.25171	0.00645	0.06776	0.07421	—	787.592	787.592	0.03653	0.11401	822.514
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10078	0.08927	1.46519	0.00000	0.00000	0.54090	0.54090	0.00000	0.12671	0.12671	—	482.683	482.683	0.00552	0.00276	484.097
Vendor	0.01109	0.48839	0.23865	0.00401	0.00401	0.15151	0.15552	0.00401	0.04189	0.04590	—	489.938	489.938	0.02273	0.07095	511.999
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01839	0.01629	0.26740	0.00000	0.00000	0.09871	0.09871	0.00000	0.02312	0.02312	—	79.9137	79.9137	0.00091	0.00046	80.1477
Vendor	0.00202	0.08913	0.04355	0.00073	0.00073	0.02765	0.02838	0.00073	0.00764	0.00838	—	81.1148	81.1148	0.00376	0.01175	84.7672
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.7. Paving (2031)

3.7.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31588	8.61894	10.6002	0.01395	0.39144	—	0.39144	0.35848	—	0.35848	—	1,510.63	1,510.63	0.06128	0.01226	1,515.81
Paving	0.32357	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02782	0.75901	0.93348	0.00123	0.03447	—	0.03447	0.03157	—	0.03157	—	133.030	133.030	0.00540	0.00108	133.486
Paving	0.02849	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00508	0.13852	0.17036	0.00022	0.00629	—	0.00629	0.00576	—	0.00576	—	22.0246	22.0246	0.00089	0.00018	22.1002
Paving	0.00520	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.2. Offsite - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03621	0.03208	0.50464	0.00000	0.00000	0.19606	0.19606	0.00000	0.04596	0.04596	—	171.108	171.108	0.00198	0.00099	171.463
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00319	0.00282	0.04636	0.00000	0.00000	0.01712	0.01712	0.00000	0.00401	0.00401	—	15.2731	15.2731	0.00017	0.00009	15.3178
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00058	0.00052	0.00846	0.00000	0.00000	0.00312	0.00312	0.00000	0.00073	0.00073	—	2.52864	2.52864	0.00003	0.00001	2.53604
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.8. Paving (2032)

3.8.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31588	8.61894	10.6002	0.01395	0.39144	—	0.39144	0.35848	—	0.35848	—	1,510.63	1,510.63	0.06128	0.01226	1,515.81

Paving	0.32357	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02287	0.62407	0.76753	0.00101	0.02834	—	0.02834	0.02596	—	0.02596	—	109.380	109.380	0.00444	0.00089	109.756
Paving	0.02343	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00417	0.11389	0.14007	0.00018	0.00517	—	0.00517	0.00474	—	0.00474	—	18.1091	18.1091	0.00073	0.00015	18.1713
Paving	0.00428	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03522	0.03175	0.48132	0.00000	0.00000	0.19606	0.19606	0.00000	0.04596	0.04596	—	168.635	168.635	0.00165	0.00099	168.981
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00253	0.00230	0.03646	0.00000	0.00000	0.01407	0.01407	0.00000	0.00330	0.00330	—	12.3766	12.3766	0.00012	0.00007	12.4113

Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00046	0.00042	0.00665	0.00000	0.00000	0.00257	0.00257	0.00000	0.00060	0.00060	—	2.04909	2.04909	0.00002	0.00001	2.05482
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.9. Architectural Coating (2032)

3.9.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05168	1.08770	0.96319	0.00173	0.06578	—	0.06578	0.06108	—	0.06108	—	133.504	133.504	0.00542	0.00108	133.962
Architectural Coatings	20.2066	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05168	1.08770	0.96319	0.00173	0.06578	—	0.06578	0.06108	—	0.06108	—	133.504	133.504	0.00542	0.00108	133.962
Architectural Coatings	20.2066	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01274	0.26820	0.23750	0.00043	0.01622	—	0.01622	0.01506	—	0.01506	—	32.9187	32.9187	0.00134	0.00027	33.0317
Architectural Coatings	4.98244	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00233	0.04895	0.04334	0.00008	0.00296	—	0.00296	0.00275	—	0.00275	—	5.45007	5.45007	0.00022	0.00004	5.46877
Architectural Coatings	0.90930	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03150	0.02233	0.50047	0.00000	0.00000	0.17537	0.17537	0.00000	0.04111	0.04111	—	158.445	158.445	0.00148	0.00089	159.040
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03150	0.02840	0.43051	0.00000	0.00000	0.17537	0.17537	0.00000	0.04111	0.04111	—	150.834	150.834	0.00148	0.00089	151.143
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00769	0.00700	0.11104	0.00000	0.00000	0.04286	0.04286	0.00000	0.01004	0.01004	—	37.6981	37.6981	0.00036	0.00022	37.8037
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00140	0.00128	0.02026	0.00000	0.00000	0.00782	0.00782	0.00000	0.00183	0.00183	—	6.24136	6.24136	0.00006	0.00004	6.25884
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.32486	0.20582	2.64896	0.00744	0.00365	0.78235	0.78601	0.00341	0.19855	0.20196	—	759.267	759.267	0.03096	0.02838	769.824
Single Family Housing	0.39304	0.24637	3.16127	0.00884	0.00435	0.92919	0.93354	0.00406	0.23582	0.23988	—	902.318	902.318	0.03713	0.03392	914.928
Medical Office Building	0.84947	0.53820	6.92671	0.01945	0.00955	2.04576	2.05532	0.00891	0.51920	0.52810	—	1,985.39	1,985.39	0.08095	0.07422	2,013.00
Arena	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	1.30202	0.82491	10.6169	0.02981	0.01464	3.13563	3.15027	0.01365	0.79579	0.80945	—	3,043.09	3,043.09	0.12408	0.11376	3,085.41

High Turnover (Sit Down Restaurant)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	2.86940	1.81530	23.3538	0.06554	0.03219	6.89294	6.92513	0.03002	1.74937	1.77939	—	6,690.07	6,690.07	0.27311	0.25028	6,783.16
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.32335	0.22354	2.46919	0.00715	0.00365	0.78235	0.78601	0.00341	0.19855	0.20196	—	730.232	730.232	0.03213	0.02964	739.903
Single Family Housing	0.39122	0.26757	2.95045	0.00850	0.00435	0.92919	0.93354	0.00406	0.23582	0.23988	—	867.840	867.840	0.03856	0.03542	879.401
Medical Office Building	0.84552	0.58454	6.45663	0.01870	0.00956	2.04576	2.05532	0.00891	0.51920	0.52811	—	1,909.47	1,909.47	0.08401	0.07751	1,934.76
Arena	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	1.29596	0.89594	9.89635	0.02866	0.01465	3.13563	3.15027	0.01366	0.79579	0.80945	—	2,926.72	2,926.72	0.12876	0.11881	2,965.49
High Turnover (Sit Down Restaurant)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Total	2.85604	1.97159	21.7726	0.06301	0.03221	6.89294	6.92514	0.03003	1.74937	1.77940	—	6,434.27	6,434.27	0.28346	0.26139	6,519.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.05851	0.04111	0.46101	0.00132	0.00067	0.14153	0.14220	0.00062	0.03592	0.03655	—	122.194	122.194	0.00529	0.00492	123.887
Single Family Housing	0.07079	0.04920	0.55070	0.00157	0.00079	0.16810	0.16889	0.00074	0.04267	0.04341	—	145.219	145.219	0.00634	0.00588	147.242
Medical Office Building	0.15299	0.10751	1.20548	0.00345	0.00174	0.37010	0.37184	0.00163	0.09394	0.09556	—	319.523	319.523	0.01382	0.01286	323.950
Arena	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.23450	0.16478	1.84769	0.00529	0.00267	0.56726	0.56993	0.00249	0.14398	0.14648	—	489.746	489.746	0.02119	0.01972	496.531
High Turnover (Sit Down Restaurant)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.51678	0.36260	4.06487	0.01162	0.00588	1.24699	1.25286	0.00548	0.31652	0.32200	—	1,076.68	1,076.68	0.04664	0.04338	1,091.61

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	65.1599	65.1599	0.00365	0.00044	65.3830
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	268.479	268.479	0.01504	0.00182	269.399
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	574.546	574.546	0.03219	0.00390	576.513
Arena	—	—	—	—	—	—	—	—	—	—	—	29.7297	29.7297	0.00167	0.00020	29.8315
General Office Building	—	—	—	—	—	—	—	—	—	—	—	728.358	728.358	0.04081	0.00495	730.852
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	488.603	488.603	0.02738	0.00332	490.277
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	456.268	456.268	0.02556	0.00310	457.831
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2,611.14	2,611.14	0.14630	0.01773	2,620.09
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	65.1599	65.1599	0.00365	0.00044	65.3830
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	268.479	268.479	0.01504	0.00182	269.399
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	574.546	574.546	0.03219	0.00390	576.513
Arena	—	—	—	—	—	—	—	—	—	—	—	29.7297	29.7297	0.00167	0.00020	29.8315

General Office Building	—	—	—	—	—	—	—	—	—	—	—	728.358	728.358	0.04081	0.00495	730.852
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	488.603	488.603	0.02738	0.00332	490.277
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	456.268	456.268	0.02556	0.00310	457.831
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2,611.14	2,611.14	0.14630	0.01773	2,620.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	10.7880	10.7880	0.00060	0.00007	10.8249
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	44.4498	44.4498	0.00249	0.00030	44.6021
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	95.1226	95.1226	0.00533	0.00065	95.4483
Arena	—	—	—	—	—	—	—	—	—	—	—	4.92208	4.92208	0.00028	0.00003	4.93894
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120.588	120.588	0.00676	0.00082	121.001
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	80.8939	80.8939	0.00453	0.00055	81.1709
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	75.5404	75.5404	0.00423	0.00051	75.7991
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000

City Park	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	432.305	432.305	0.02422	0.00294	433.785

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Single Family Housing	0.00609	0.10410	0.04430	0.00066	0.00842	—	0.00842	0.00842	—	0.00842	—	132.141	132.141	0.01169	0.00025	132.507
Medical Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Arena	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
High Turnover (Sit Down Restaurant)	0.01411	0.25663	0.21557	0.00154	0.01950	—	0.01950	0.01950	—	0.01950	—	306.207	306.207	0.02710	0.00058	307.057
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.02021	0.36074	0.25987	0.00220	0.02792	—	0.02792	0.02792	—	0.02792	—	438.348	438.348	0.03879	0.00083	439.564

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Single Family Housing	0.00609	0.10410	0.04430	0.00066	0.00842	—	0.00842	0.00842	—	0.00842	—	132.141	132.141	0.01169	0.00025	132.507
Medical Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Arena	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
High Turnover (Sit Down Restaurant)	0.01411	0.25663	0.21557	0.00154	0.01950	—	0.01950	0.01950	—	0.01950	—	306.207	306.207	0.02710	0.00058	307.057
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.02021	0.36074	0.25987	0.00220	0.02792	—	0.02792	0.02792	—	0.02792	—	438.348	438.348	0.03879	0.00083	439.564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Single Family Housing	0.00111	0.01900	0.00808	0.00012	0.00154	—	0.00154	0.00154	—	0.00154	—	21.8774	21.8774	0.00194	0.00004	21.9381
Medical Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Arena	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

General Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
High Turnover (Sit Down Restaurant)	0.00258	0.04684	0.03934	0.00028	0.00356	—	0.00356	0.00356	—	0.00356	—	50.6961	50.6961	0.00449	0.00010	50.8368
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00369	0.06583	0.04743	0.00040	0.00510	—	0.00510	0.00510	—	0.00510	—	72.5735	72.5735	0.00642	0.00014	72.7748

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	0.20484	0.16279	1.84609	0.00669	0.26620	—	0.26620	0.25671	—	0.25671	43.0820	169.579	212.661	0.20459	0.00032	217.871
Consumer Products	4.78768	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49824	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.25196	0.06610	7.81581	0.00046	0.01333	—	0.01333	0.01008	—	0.01008	—	31.5363	31.5363	0.00132	0.00027	31.6499
Total	6.74272	0.22889	9.66191	0.00715	0.27953	—	0.27953	0.26679	—	0.26679	43.0820	201.115	244.197	0.20592	0.00059	249.521

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.20484	0.16279	1.84609	0.00669	0.26620	—	0.26620	0.25671	—	0.25671	43.0820	169.579	212.661	0.20459	0.00032	217.871
Consumer Products	4.78768	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49824	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5.49077	0.16279	1.84609	0.00669	0.26620	—	0.26620	0.25671	—	0.25671	43.0820	169.579	212.661	0.20459	0.00032	217.871
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00256	0.00203	0.02308	0.00008	0.00333	—	0.00333	0.00321	—	0.00321	0.48854	1.92299	2.41154	0.00232	< 0.000005	2.47062
Consumer Products	0.87375	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09093	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15649	0.00826	0.97698	0.00006	0.00167	—	0.00167	0.00126	—	0.00126	—	3.57616	3.57616	0.00015	0.00003	3.58904
Total	1.12374	0.01030	1.00005	0.00014	0.00499	—	0.00499	0.00447	—	0.00447	0.48854	5.49915	5.98769	0.00247	0.00003	6.05966

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Place of Worship	—	—	—	—	—	—	—	—	—	—	0.17987	1.03109	1.21096	0.01850	0.00045	1.80618
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.52493	4.59793	5.12286	0.05408	0.00131	6.86534
Medical Office Building	—	—	—	—	—	—	—	—	—	—	11.9840	68.6975	80.6815	1.23268	0.02966	120.338
Arena	—	—	—	—	—	—	—	—	—	—	0.21572	1.23662	1.45234	0.02219	0.00053	2.16620
General Office Building	—	—	—	—	—	—	—	—	—	—	6.87971	39.4373	46.3171	0.70765	0.01703	69.0828
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.94396	28.3408	33.2848	0.50853	0.01224	49.6449
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	—	—	—	—	—	—	—	—	—	—	0.00000	343.802	343.802	0.01926	0.00233	344.979
Total	—	—	—	—	—	—	—	—	—	—	24.7282	487.143	511.871	2.56289	0.06355	594.882
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	0.17987	1.03109	1.21096	0.01850	0.00045	1.80618
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.52493	4.59793	5.12286	0.05408	0.00131	6.86534
Medical Office Building	—	—	—	—	—	—	—	—	—	—	11.9840	68.6975	80.6815	1.23268	0.02966	120.338
Arena	—	—	—	—	—	—	—	—	—	—	0.21572	1.23662	1.45234	0.02219	0.00053	2.16620

General Office Building	—	—	—	—	—	—	—	—	—	—	6.87971	39.4373	46.3171	0.70765	0.01703	69.0828
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.94396	28.3408	33.2848	0.50853	0.01224	49.6449
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	—	—	—	—	—	—	—	—	—	—	0.00000	343.802	343.802	0.01926	0.00233	344.979
Total	—	—	—	—	—	—	—	—	—	—	24.7282	487.143	511.871	2.56289	0.06355	594.882
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	0.02978	0.17071	0.20049	0.00306	0.00007	0.29903
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.08691	0.76124	0.84815	0.00895	0.00022	1.13664
Medical Office Building	—	—	—	—	—	—	—	—	—	—	1.98409	11.3737	13.3577	0.20408	0.00491	19.9233
Arena	—	—	—	—	—	—	—	—	—	—	0.03572	0.20474	0.24045	0.00367	0.00009	0.35864
General Office Building	—	—	—	—	—	—	—	—	—	—	1.13901	6.52930	7.66832	0.11716	0.00282	11.4374
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	0.81853	4.69214	5.51067	0.08419	0.00203	8.21927
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

City Park	—	—	—	—	—	—	—	—	—	—	0.00000	56.9203	56.9203	0.00319	0.00039	57.1152
Total	—	—	—	—	—	—	—	—	—	—	4.09404	80.6521	84.7461	0.42432	0.01052	98.4896

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	9.21585	0.00000	9.21585	0.92109	0.00000	32.2431
Single Family Housing	—	—	—	—	—	—	—	—	—	—	3.14537	0.00000	3.14537	0.31437	0.00000	11.0046
Medical Office Building	—	—	—	—	—	—	—	—	—	—	290.096	0.00000	290.096	28.9940	0.00000	1,014.95
Arena	—	—	—	—	—	—	—	—	—	—	1.31408	0.00000	1.31408	0.13134	0.00000	4.59752
General Office Building	—	—	—	—	—	—	—	—	—	—	10.1245	0.00000	10.1245	1.01191	0.00000	35.4222
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	54.5137	0.00000	54.5137	5.44844	0.00000	190.725
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	—	—	—	—	—	—	—	—	—	—	1.51699	0.00000	1.51699	0.15162	0.00000	5.30745
Total	—	—	—	—	—	—	—	—	—	—	369.926	0.00000	369.926	36.9728	0.00000	1,294.25

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	9.21585	0.00000	9.21585	0.92109	0.00000	32.2431
Single Family Housing	—	—	—	—	—	—	—	—	—	—	3.14537	0.00000	3.14537	0.31437	0.00000	11.0046
Medical Office Building	—	—	—	—	—	—	—	—	—	—	290.096	0.00000	290.096	28.9940	0.00000	1,014.95
Arena	—	—	—	—	—	—	—	—	—	—	1.31408	0.00000	1.31408	0.13134	0.00000	4.59752
General Office Building	—	—	—	—	—	—	—	—	—	—	10.1245	0.00000	10.1245	1.01191	0.00000	35.4222
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	54.5137	0.00000	54.5137	5.44844	0.00000	190.725
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	—	—	—	—	—	—	—	—	—	—	1.51699	0.00000	1.51699	0.15162	0.00000	5.30745
Total	—	—	—	—	—	—	—	—	—	—	369.926	0.00000	369.926	36.9728	0.00000	1,294.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	1.52579	0.00000	1.52579	0.15250	0.00000	5.33822
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.52075	0.00000	0.52075	0.05205	0.00000	1.82193
Medical Office Building	—	—	—	—	—	—	—	—	—	—	48.0286	0.00000	48.0286	4.80029	0.00000	168.036
Arena	—	—	—	—	—	—	—	—	—	—	0.21756	0.00000	0.21756	0.02174	0.00000	0.76117

General Office Building	—	—	—	—	—	—	—	—	—	—	1.67623	0.00000	1.67623	0.16753	0.00000	5.86455
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	9.02536	0.00000	9.02536	0.90205	0.00000	31.5767
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
City Park	—	—	—	—	—	—	—	—	—	—	0.25116	0.00000	0.25116	0.02510	0.00000	0.87871
Total	—	—	—	—	—	—	—	—	—	—	61.2455	0.00000	61.2455	6.12127	0.00000	214.277

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01159
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10446
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.27351
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04913
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55182

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2877
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.2782
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01159
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10446
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.27351
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04913
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55182
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2877
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.2782
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00192
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01729
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21084

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00813
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09136
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.19992
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52947

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. 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)

Equipme 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	6/4/2029	6/29/2029	5.00000	20.0000	—
Site Preparation	Site Preparation	7/2/2029	2/8/2030	5.00000	160.000	—
Grading	Grading	2/11/2030	9/20/2030	5.00000	160.000	—
Building Construction	Building Construction	9/23/2030	11/14/2031	5.00000	300.000	—
Paving	Paving	11/17/2031	2/6/2032	5.00000	60.0000	—
Architectural Coating	Architectural Coating	2/9/2032	6/11/2032	5.00000	90.0000	—

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	Tier 3	1.000000	8.00000	33.0000	0.73000
Demolition	Excavators	Diesel	Tier 3	3.00000	8.00000	36.0000	0.38000
Demolition	Rubber Tired Dozers	Diesel	Tier 3	2.00000	8.00000	367.000	0.40000
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Tier 3	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Tier 3	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.000000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Tier 3	2.00000	8.00000	423.000	0.48000

Grading	Tractors/Loaders/Back	Diesel	Tier 3	2.00000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Tier 3	1.000000	7.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Tier 3	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 3	3.00000	7.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Tier 3	1.000000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Tier 3	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Tier 3	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Tier 3	2.00000	8.00000	36.0000	0.38000
Architectural Coating	Air Compressors	Diesel	Tier 3	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	15.0000	18.5000	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2000	HHDT,MHDT
Demolition	Hauling	0.95000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	17.5000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	67.0828	18.5000	LDA,LDT1,LDT2

Building Construction	Vendor	28.6663	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15.0000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	13.4166	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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	29,534.6	9,844.88	255,210	85,070.0	32,278.0

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	1,600.00	0.00000
Site Preparation	0.00000	0.00000	25.0000	0.00000	0.00000
Grading	0.00000	0.00000	25.0000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	12.4304

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Place of Worship	0.00000	0%
Paving	Single Family Housing	0.06942	0%
Paving	Medical Office Building	0.00000	0%
Paving	Arena	0.00000	0%
Paving	Single Family Housing	0.01102	0%
Paving	General Office Building	0.00000	0%
Paving	High Turnover (Sit Down Restaurant)	0.00000	0%
Paving	General Office Building	0.00000	0%
Paving	General Office Building	0.00000	0%
Paving	Parking Lot	7.41000	100%
Paving	Other Non-Asphalt Surfaces	4.94000	0%
Paving	City Park	0.00000	0%
Paving	High Turnover (Sit Down Restaurant)	0.00000	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2029	0.00000	588.983	0.03300	0.00400
2030	0.00000	588.983	0.03300	0.00400
2031	0.00000	588.983	0.03300	0.00400
2032	0.00000	588.983	0.03300	0.00400

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
Place of Worship	129.990	129.990	129.990	47,446.4	1,105.96	1,105.96	1,105.96	403,675
Single Family Housing	158.004	158.004	158.004	57,671.5	1,313.53	1,313.53	1,313.53	479,439
Medical Office Building	339.909	339.909	339.909	124,067	2,891.95	2,891.95	2,891.95	1,055,562
Arena	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Single Family Housing	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
High Turnover (Sit Down Restaurant)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
General Office Building	232.992	232.992	232.992	85,042.1	1,982.30	1,982.30	1,982.30	723,540
General Office Building	288.000	288.000	288.000	105,120	2,450.31	2,450.31	2,450.31	894,363
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
High Turnover (Sit Down Restaurant)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Place of Worship	Wood Fireplaces	0	0
Place of Worship	Gas Fireplaces	0	0
Place of Worship	Propane Fireplaces	0	0
Place of Worship	Electric Fireplaces	0	0
Place of Worship	No Fireplaces	0	0
Place of Worship	Conventional Wood Stoves	0	0
Place of Worship	Catalytic Wood Stoves	0	0
Place of Worship	Non-Catalytic Wood Stoves	0	0
Place of Worship	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	5	5
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	1	1
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	Pellet Wood Stoves	0	0
Medical Office Building	Wood Fireplaces	0	0
Medical Office Building	Gas Fireplaces	0	0
Medical Office Building	Propane Fireplaces	0	0

Medical Office Building	Electric Fireplaces	0	0
Medical Office Building	No Fireplaces	0	0
Medical Office Building	Conventional Wood Stoves	0	0
Medical Office Building	Catalytic Wood Stoves	0	0
Medical Office Building	Non-Catalytic Wood Stoves	0	0
Medical Office Building	Pellet Wood Stoves	0	0
Arena	Wood Fireplaces	0	0
Arena	Gas Fireplaces	3	3
Arena	Propane Fireplaces	0	0
Arena	Electric Fireplaces	0	0
Arena	No Fireplaces	0	0
Arena	Conventional Wood Stoves	0	0
Arena	Catalytic Wood Stoves	0	0
Arena	Non-Catalytic Wood Stoves	0	0
Arena	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	1	1
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	0	0
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	Pellet Wood Stoves	0	0
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0

General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Wood Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Gas Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Propane Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Electric Fireplaces	0	0
High Turnover (Sit Down Restaurant)	No Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Conventional Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Catalytic Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Non-Catalytic Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Pellet Wood Stoves	0	0
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0

General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0
City Park	Wood Fireplaces	0	0
City Park	Gas Fireplaces	0	0
City Park	Propane Fireplaces	0	0
City Park	Electric Fireplaces	0	0
City Park	No Fireplaces	0	0
City Park	Conventional Wood Stoves	0	0

City Park	Catalytic Wood Stoves	0	0
City Park	Non-Catalytic Wood Stoves	0	0
City Park	Pellet Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Wood Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Gas Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Propane Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Electric Fireplaces	0	0
High Turnover (Sit Down Restaurant)	No Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Conventional Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Catalytic Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Non-Catalytic Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Pellet Wood Stoves	0	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)
29,534.6	9,844.88	255,210	85,070.0	32,278.0

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

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)

Place of Worship	40,380.4	588.983	0.0330	0.0040	0.00000
Single Family Housing	33,623.5	588.983	0.0330	0.0040	156,130
Medical Office Building	356,053	588.983	0.0330	0.0040	0.00000
Arena	18,423.8	588.983	0.0330	0.0040	0.00000
Single Family Housing	132,757	588.983	0.0330	0.0040	256,184
General Office Building	165,946	588.983	0.0330	0.0040	0.00000
High Turnover (Sit Down Restaurant)	213,737	588.983	0.0330	0.0040	674,435
General Office Building	119,481	588.983	0.0330	0.0040	0.00000
General Office Building	165,946	588.983	0.0330	0.0040	0.00000
Parking Lot	282,755	588.983	0.0330	0.0040	0.00000
Other Non-Asphalt Surfaces	0.00000	588.983	0.0330	0.0040	0.00000
City Park	0.00000	588.983	0.0330	0.0040	0.00000
High Turnover (Sit Down Restaurant)	89,056.9	588.983	0.0330	0.0040	281,015

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Place of Worship	93,866.7	0.00000
Single Family Housing	236,412	0.00000
Medical Office Building	6,253,950	0.00000
Arena	112,577	0.00000
Single Family Housing	37,525.7	185,539
General Office Building	533,201	0.00000
High Turnover (Sit Down Restaurant)	1,821,202	0.00000
General Office Building	1,279,683	0.00000
General Office Building	1,777,337	0.00000

Parking Lot	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
City Park	0.00000	40,148,354
High Turnover (Sit Down Restaurant)	758,834	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Place of Worship	17.1000	0.00000
Single Family Housing	5.04038	0.00000
Medical Office Building	538.272	0.00000
Arena	2.43827	0.00000
Single Family Housing	0.79585	0.00000
General Office Building	2.79000	0.00000
High Turnover (Sit Down Restaurant)	71.4000	0.00000
General Office Building	6.69600	0.00000
General Office Building	9.30000	0.00000
Parking Lot	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
City Park	2.81478	0.00000
High Turnover (Sit Down Restaurant)	29.7500	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

Place of Worship	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.45455	0.60000	0.00000	1.000000
Medical Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00230	4.00000	4.00000	18.0000
Arena	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Arena	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Arena	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000

General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
City Park	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

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)

8. User Changes to Default Data

8.1. Justifications

Screen	Justification

Land Use	Project site is approximately 65.5-acres that would develop multiple cores, including equestrian uses, multiple barns, community buildings, farm stay units, a restaurant, and single family residences for caretakers. Most of the site would be open space and recreational use (approximately 32.73 acres of landscape area).
Construction: Construction Phases	Construction would tenatively begin in 2029 and occur for 3 years. Demolition is expected to be minimal
Construction: Off-Road Equipment	Default equipment with tier 3
Construction: Dust From Material Movement	Project would balance on-site but approximately 25 acres would be disturbed during construction
Operations: Vehicle Data	Trip rates are scaled based on the project's trip generation, which estimates a total of 1,149 daily trips. Not all land used would generate trips. Trip rates: Chapel = 130 trips / 3 = 43.33 Ranch house = 158 trips /6.0 = 25.08 Veterinary and horse barn = 340 trips/ 49.84 = 6.82 Event barn = 233 trips/ 7.2 = 32.36 Community building = 288 trips/ 10.0 = 28.8
Operations: Hearths	Assume no wood burning hearths
Operations: Energy Use	Assuming natural gas will be utilized in a limited fashion. Natural gas assumed for sit down restaurant, ranch house, and catering building for the agricultural core
Operations: Water and Waste Water	outdoor water use associated with 32.73 acre landscape area

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Landscape Area	sq. ft	73,791.0	0.00000
Lot Area	acre	28.4786	12.2480
Landscape Area	sq. ft	—	0.00000
Building Area	sq. ft	1,950.00	2,300.00
Lot Area	acre	7.21800	7.41000
Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	9/10/2029	6/29/2029
Demolition	Demolition	Work Days per Phase	70.0000	20.0000
Site Preparation	Site Preparation	Start Date	9/11/2029	7/2/2029
Site Preparation	Site Preparation	End Date	11/6/2029	2/8/2030
Site Preparation	Site Preparation	Work Days per Phase	40.0000	160.000
Grading	Grading	Start Date	11/7/2029	2/11/2030
Grading	Grading	End Date	4/10/2030	9/20/2030
Grading	Grading	Work Days per Phase	110.000	160.000
Building Construction	Building Construction	Start Date	4/11/2030	9/23/2030
Building Construction	Building Construction	End Date	7/13/2034	11/14/2031
Building Construction	Building Construction	Work Days per Phase	1,110.00	300.000
Paving	Paving	Start Date	7/14/2034	11/17/2031
Paving	Paving	End Date	10/27/2034	2/6/2032
Paving	Paving	Work Days per Phase	75.0000	60.0000
Architectural Coating	Architectural Coating	Start Date	10/28/2034	2/9/2032
Architectural Coating	Architectural Coating	End Date	2/10/2035	6/11/2032
Architectural Coating	Architectural Coating	Work Days per Phase	75.0000	90.0000

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Demolition	Concrete/Industrial Saws	Engine Tier	Average	Tier 3
Demolition	Excavators	Engine Tier	Average	Tier 3
Demolition	Rubber Tired Dozers	Engine Tier	Average	Tier 3
Site Preparation	Rubber Tired Dozers	Engine Tier	Average	Tier 3

Site Preparation	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 3
Grading	Excavators	Engine Tier	Average	Tier 3
Grading	Graders	Engine Tier	Average	Tier 3
Grading	Rubber Tired Dozers	Engine Tier	Average	Tier 3
Grading	Scrapers	Engine Tier	Average	Tier 3
Grading	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 3
Building Construction	Cranes	Engine Tier	Average	Tier 3
Building Construction	Forklifts	Engine Tier	Average	Tier 3
Building Construction	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 3
Building Construction	Welders	Engine Tier	Average	Tier 3
Paving	Pavers	Engine Tier	Average	Tier 3
Paving	Paving Equipment	Engine Tier	Average	Tier 3
Paving	Rollers	Engine Tier	Average	Tier 3
Architectural Coating	Air Compressors	Engine Tier	Average	Tier 3

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value
Site Preparation	Material Imported	Cubic Yards	—	0.00000
Site Preparation	Material Exported	Cubic Yards	—	0.00000
Site Preparation	Total Acres Graded	acres	240.000	25.0000
Grading	Material Imported	Cubic Yards	—	0.00000
Grading	Material Exported	Cubic Yards	—	0.00000
Grading	Total Acres Graded	acres	480.000	25.0000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Place of Worship	Weekday Trip Rate	size/day	6.95000	43.3300
Place of Worship	Saturday Trip Rate	size/day	5.99000	43.3300
Place of Worship	Sunday Trip Rate	size/day	27.6300	43.3300
Single Family Housing	Weekday Trip Rate	size/day	9.44000	25.0800
Single Family Housing	Saturday Trip Rate	size/day	9.54000	25.0800
Single Family Housing	Sunday Trip Rate	size/day	8.55000	25.0800
Medical Office Building	Weekday Trip Rate	size/day	34.8000	6.82000
Medical Office Building	Saturday Trip Rate	size/day	8.57000	6.82000
Medical Office Building	Sunday Trip Rate	size/day	1.42000	6.82000
Arena	Weekday Trip Rate	size/day	10.7132	0.00000
Arena	Saturday Trip Rate	size/day	10.7132	0.00000
Arena	Sunday Trip Rate	size/day	10.7132	0.00000
Arena	Res H-W Trip Length	miles	0.00000	18.9176
Arena	Res H-S Trip Length	miles	0.00000	7.50869
Arena	Res H-O Trip Length	miles	0.00000	6.29166
Arena	Non-Res H-W Trip Length	miles	18.9176	0.00000
Arena	Non-Res W-O Trip Length	miles	9.34017	0.00000
Arena	Non-Res O-O Trip Length	miles	4.98145	0.00000
Arena	Res H-W Trip	%	0.00000	15.3178
Arena	Res H-S Trip	%	0.00000	7.19832
Arena	Res H-O Trip	%	0.00000	77.4839
Arena	Non-Res H-W Trip	%	21.0374	0.00000
Arena	Non-Res W-O Trip	%	13.6454	0.00000
Arena	Non-Res O-O Trip	%	65.3172	0.00000
Single Family Housing	Weekday Trip Rate	size/day	9.44000	0.00000
Single Family Housing	Saturday Trip Rate	size/day	9.54000	0.00000

Single Family Housing	Sunday Trip Rate	size/day	8.55000	0.00000
Single Family Housing	Res H-W Trip Length	miles	18.9176	0.00000
Single Family Housing	Res H-S Trip Length	miles	7.50869	0.00000
Single Family Housing	Res H-O Trip Length	miles	6.29166	0.00000
Single Family Housing	Non-Res H-W Trip Length	miles	0.00000	18.9176
Single Family Housing	Non-Res W-O Trip Length	miles	0.00000	9.34017
Single Family Housing	Non-Res O-O Trip Length	miles	0.00000	4.98145
Single Family Housing	Res H-W Trip	%	15.3178	0.00000
Single Family Housing	Res H-S Trip	%	7.19832	0.00000
Single Family Housing	Res H-O Trip	%	77.4839	0.00000
Single Family Housing	Non-Res H-W Trip	%	0.00000	21.0374
Single Family Housing	Non-Res W-O Trip	%	0.00000	13.6454
Single Family Housing	Non-Res O-O Trip	%	0.00000	65.3172
General Office Building	Weekday Trip Rate	size/day	9.74000	0.00000
General Office Building	Saturday Trip Rate	size/day	2.21000	0.00000
General Office Building	Sunday Trip Rate	size/day	0.70000	0.00000
High Turnover (Sit Down Restaurant)	Weekday Trip Rate	size/day	112.180	0.00000
High Turnover (Sit Down Restaurant)	Saturday Trip Rate	size/day	122.400	0.00000
High Turnover (Sit Down Restaurant)	Sunday Trip Rate	size/day	142.640	0.00000
General Office Building	Weekday Trip Rate	size/day	9.74000	32.3600
General Office Building	Saturday Trip Rate	size/day	2.21000	32.3600
General Office Building	Sunday Trip Rate	size/day	0.70000	32.3600
General Office Building	Weekday Trip Rate	size/day	9.74000	28.8000
General Office Building	Saturday Trip Rate	size/day	2.21000	28.8000
General Office Building	Sunday Trip Rate	size/day	0.70000	28.8000
City Park	Weekday Trip Rate	size/day	0.78000	0.00000
City Park	Saturday Trip Rate	size/day	1.96000	0.00000
City Park	Sunday Trip Rate	size/day	2.19000	0.00000

High Turnover (Sit Down Restaurant)	Weekday Trip Rate	size/day	112.180	0.00000
High Turnover (Sit Down Restaurant)	Saturday Trip Rate	size/day	122.400	0.00000
High Turnover (Sit Down Restaurant)	Sunday Trip Rate	size/day	142.640	0.00000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Default Value	New Value
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	5	5
Single Family Housing	No Fireplaces	1	1
Arena	Wood Fireplaces	0	0
Single Family Housing	Wood Fireplaces	0	0

8.5.3. Energy Usage

Land Use	Model Parameter	Units	Default Value	New Value
Place of Worship	Electricity	kWh/yr	26,920.3	40,380.4
Place of Worship	Electricity (Subject to Title 24)	kWh/yr	22,259.7	33,389.5
Place of Worship	Electricity (Not Subject to Title 24)	kWh/yr	4,660.58	6,990.87
Place of Worship	Natural Gas	kBTU/yr	121,093	0.00000
Place of Worship	Natural Gas (Subject to Title 24)	kBTU/yr	62,114.1	0.00000
Place of Worship	Natural Gas (Not Subject to Title 24)	kBTU/yr	58,978.7	0.00000
Single Family Housing	Electricity	kWh/yr	38,690.0	33,623.5
Single Family Housing	Electricity (Subject to Title 24)	kWh/yr	7,089.11	6,160.78
Single Family Housing	Electricity (Not Subject to Title 24)	kWh/yr	31,600.9	27,462.7
Single Family Housing	Natural Gas	kBTU/yr	179,657	156,130
Single Family Housing	Natural Gas (Subject to Title 24)	kBTU/yr	162,637	141,339
Single Family Housing	Natural Gas (Not Subject to Title 24)	kBTU/yr	17,019.6	14,790.9

Medical Office Building	Electricity	kWh/yr	827,073	356,053
Medical Office Building	Electricity (Subject to Title 24)	kWh/yr	646,037	278,117
Medical Office Building	Electricity (Not Subject to Title 24)	kWh/yr	181,036	77,935.7
Medical Office Building	Natural Gas	kBTU/yr	1,596,028	0.00000
Medical Office Building	Natural Gas (Subject to Title 24)	kBTU/yr	1,396,886	0.00000
Medical Office Building	Natural Gas (Not Subject to Title 24)	kBTU/yr	199,142	0.00000
Arena	Electricity	kWh/yr	795,045	18,423.8
Arena	Electricity (Subject to Title 24)	kWh/yr	657,403	3,375.77
Arena	Electricity (Not Subject to Title 24)	kWh/yr	137,642	15,048.1
Arena	Natural Gas	kBTU/yr	3,576,273	0.00000
Arena	Natural Gas (Subject to Title 24)	kBTU/yr	1,834,435	0.00000
Arena	Natural Gas (Not Subject to Title 24)	kBTU/yr	1,741,838	0.00000
Single Family Housing	Electricity	kWh/yr	6,141.28	132,757
Single Family Housing	Electricity (Subject to Title 24)	kWh/yr	1,125.26	103,698
Single Family Housing	Electricity (Not Subject to Title 24)	kWh/yr	5,016.02	29,058.8
Single Family Housing	Natural Gas	kBTU/yr	28,516.9	256,184
Single Family Housing	Natural Gas (Subject to Title 24)	kBTU/yr	25,815.4	224,219
Single Family Housing	Natural Gas (Not Subject to Title 24)	kBTU/yr	2,701.53	31,965.0
General Office Building	Electricity	kWh/yr	49,783.7	165,946
General Office Building	Electricity (Subject to Title 24)	kWh/yr	38,886.7	129,622
General Office Building	Electricity (Not Subject to Title 24)	kWh/yr	10,897.0	36,323.5
General Office Building	Natural Gas	kBTU/yr	96,069.1	0.00000
General Office Building	Natural Gas (Subject to Title 24)	kBTU/yr	84,082.2	0.00000
General Office Building	Natural Gas (Not Subject to Title 24)	kBTU/yr	11,986.9	0.00000
General Office Building	Natural Gas	kBTU/yr	230,566	0.00000
General Office Building	Natural Gas (Subject to Title 24)	kBTU/yr	201,797	0.00000
General Office Building	Natural Gas (Not Subject to Title 24)	kBTU/yr	28,768.5	0.00000
General Office Building	Natural Gas	kBTU/yr	320,230	0.00000

General Office Building	Natural Gas (Subject to Title 24)	kBTU/yr	280,274	0.00000
General Office Building	Natural Gas (Not Subject to Title 24)	kBTU/yr	39,956.2	0.00000

8.5.4. Water and Waste Water

Land Use	Model Parameter	Units	Default Value	New Value
Arena	Indoor Water	gal/year	38,166,232	112,577