9001-9019 LONG BEACH BOULEVARD HABITAT FOR HUMANITY PROJECT

Appendix A
Air Quality/Energy/Greenhouse Gas Emissions Data

9001-19 Long Beach Boulevard Residential Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	9001-19 Long Beach Boulevard Residential
Construction Start Date	7/1/2026
Operational Year	2027
Lead Agency	City of South Gate/HUD
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50000
Precipitation (days)	18.4000
Location	33.9543345632335, -118.21967243867559
County	Los Angeles-South Coast
City	South Gate
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4273
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	User Defined
App Version	2022.1.1.37

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
Condo/Townhouse High Rise	14.0000	Dwelling Unit	0.66000	30,700.0	900.000	—	41.0000	affordable housing development

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	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.05214	9.21962	10.1748	0.02567	0.41898	1.47914	1.89812	0.38547	0.69080	1.07627	—	3,533.67	3,533.67	0.18215	0.42597	6.07835	3,671.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.4173	4.90368	7.48670	0.01238	0.18941	0.22874	0.39669	0.17397	0.05362	0.20839	—	1,480.62	1,480.62	0.06074	0.02202	0.01878	1,488.72
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.53176	3.30697	5.28260	0.00869	0.11976	0.10581	0.22557	0.11020	0.02603	0.13534	—	1,038.63	1,038.63	0.03961	0.01521	0.16901	1,044.32
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.09705	0.60352	0.96407	0.00159	0.02186	0.01931	0.04117	0.02011	0.00475	0.02470	—	171.957	171.957	0.00656	0.00252	0.02798	172.900

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.05214	9.21962	10.1748	0.02567	0.41898	1.47914	1.89812	0.38547	0.69080	1.07627	—	3,533.67	3,533.67	0.18215	0.42597	6.07835	3,671.24

2027	0.51322	4.63968	7.52820	0.01238	0.16745	0.14456	0.31201	0.15408	0.03442	0.18850	—	1,484.06	1,484.06	0.06052	0.02168	0.53676	1,492.58
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.53215	4.90368	7.48670	0.01238	0.18941	0.14456	0.33397	0.17397	0.03442	0.20839	—	1,480.62	1,480.62	0.06074	0.02202	0.01527	1,488.72
2027	0.54167	4.65032	7.43631	0.01238	0.16795	0.22874	0.39669	0.15451	0.05362	0.20813	—	1,477.13	1,477.13	0.05663	0.02168	0.01878	1,485.02
2028	11.4173	0.81596	1.21502	0.00173	0.01536	0.02635	0.04171	0.01413	0.00618	0.02030	—	158.464	158.464	0.00573	0.00204	0.00194	159.217
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.19024	1.74433	2.54418	0.00418	0.06573	0.08255	0.14829	0.06043	0.02603	0.08646	—	496.418	496.418	0.02068	0.01021	0.10241	500.081
2027	0.36777	3.30697	5.28260	0.00869	0.11976	0.10581	0.22557	0.11020	0.02514	0.13534	—	1,038.63	1,038.63	0.03961	0.01521	0.16901	1,044.32
2028	0.53176	0.03800	0.05680	0.00008	0.00072	0.00121	0.00193	0.00066	0.00028	0.00094	—	7.39766	7.39766	0.00027	0.00009	0.00151	7.43414
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.03472	0.31834	0.46431	0.00076	0.01200	0.01507	0.02706	0.01103	0.00475	0.01578	—	82.1877	82.1877	0.00342	0.00169	0.01695	82.7941
2027	0.06712	0.60352	0.96407	0.00159	0.02186	0.01931	0.04117	0.02011	0.00459	0.02470	—	171.957	171.957	0.00656	0.00252	0.02798	172.900
2028	0.09705	0.00694	0.01037	0.00001	0.00013	0.00022	0.00035	0.00012	0.00005	0.00017	—	1.22477	1.22477	0.00004	0.00002	0.00025	1.23081

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.04267	0.18281	2.85108	0.00491	0.00342	0.45861	0.46203	0.00312	0.11646	0.11958	6.52010	552.467	558.987	0.68397	0.02289	1.74244	584.651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.96956	0.19170	1.91056	0.00467	0.00305	0.45861	0.46166	0.00283	0.11646	0.11929	6.52010	529.513	536.033	0.68506	0.02390	0.25935	560.539
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1.00263	0.18892	2.40451	0.00451	0.00315	0.43090	0.43405	0.00289	0.10944	0.11233	6.52010	512.804	519.324	0.68365	0.02292	0.84494	544.091
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.18298	0.03448	0.43882	0.00082	0.00058	0.07864	0.07921	0.00053	0.01997	0.02050	1.07948	84.9005	85.9800	0.11319	0.00380	0.13989	90.0804

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.26333	0.17522	2.05626	0.00487	0.00305	0.45861	0.46166	0.00283	0.11646	0.11929	—	498.219	498.219	0.02466	0.01984	1.52256	506.270
Area	0.77934	0.00759	0.79482	0.00003	0.00038	—	0.00038	0.00029	—	0.00029	0.00000	2.12362	2.12362	0.00009	0.00002	—	2.13109
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	48.6777	48.6777	0.00464	0.00056	—	48.9613
Water	—	—	—	—	—	—	—	—	—	—	0.99996	3.44693	4.44689	0.10286	0.00248	—	7.75630
Waste	—	—	—	—	—	—	—	—	—	—	5.52014	0.00000	5.52014	0.55172	0.00000	—	19.3131
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21987	0.21987
Total	1.04267	0.18281	2.85108	0.00491	0.00342	0.45861	0.46203	0.00312	0.11646	0.11958	6.52010	552.467	558.987	0.68397	0.02289	1.74244	584.651
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.25994	0.19170	1.91056	0.00467	0.00305	0.45861	0.46166	0.00283	0.11646	0.11929	—	477.388	477.388	0.02584	0.02086	0.03948	484.289
Area	0.70962	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	48.6777	48.6777	0.00464	0.00056	—	48.9613
Water	—	—	—	—	—	—	—	—	—	—	0.99996	3.44693	4.44689	0.10286	0.00248	—	7.75630
Waste	—	—	—	—	—	—	—	—	—	—	5.52014	0.00000	5.52014	0.55172	0.00000	—	19.3131
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21987	0.21987
Total	0.96956	0.19170	1.91056	0.00467	0.00305	0.45861	0.46166	0.00283	0.11646	0.11929	6.52010	529.513	536.033	0.68506	0.02390	0.25935	560.539
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.24525	0.18373	1.86011	0.00449	0.00290	0.43090	0.43379	0.00269	0.10944	0.11214	—	459.224	459.224	0.02437	0.01987	0.62507	466.381
Area	0.75738	0.00520	0.54440	0.00002	0.00026	—	0.00026	0.00020	—	0.00020	0.00000	1.45454	1.45454	0.00006	0.00001	—	1.45965
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	48.6777	48.6777	0.00464	0.00056	—	48.9613
Water	—	—	—	—	—	—	—	—	—	—	0.99996	3.44693	4.44689	0.10286	0.00248	—	7.75630
Waste	—	—	—	—	—	—	—	—	—	—	5.52014	0.00000	5.52014	0.55172	0.00000	—	19.3131
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21987	0.21987
Total	1.00263	0.18892	2.40451	0.00451	0.00315	0.43090	0.43405	0.00289	0.10944	0.11233	6.52010	512.804	519.324	0.68365	0.02292	0.84494	544.091
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.04476	0.03353	0.33947	0.00082	0.00053	0.07864	0.07917	0.00049	0.01997	0.02046	—	76.0299	76.0299	0.00404	0.00329	0.10349	77.2146
Area	0.13822	0.00095	0.09935	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	0.00000	0.24081	0.24081	0.00001	< 0.000005	—	0.24166
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	8.05915	8.05915	0.00077	0.00009	—	8.10610
Water	—	—	—	—	—	—	—	—	—	—	0.16555	0.57068	0.73623	0.01703	0.00041	—	1.28414
Waste	—	—	—	—	—	—	—	—	—	—	0.91392	0.00000	0.91392	0.09134	0.00000	—	3.19750
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03640	0.03640
Total	0.18298	0.03448	0.43882	0.00082	0.00058	0.07864	0.07921	0.00053	0.01997	0.02050	1.07948	84.9005	85.9800	0.11319	0.00380	0.13989	90.0804

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44081	4.09093	5.57793	0.00877	0.13431	—	0.13431	0.12356	—	0.12356	—	851.928	851.928	0.03456	0.00691	—	854.851
Demolition	—	—	—	—	—	0.01854	0.01854	—	0.00281	0.00281	—	—	—	—	—	—	—

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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03985	0.36986	0.50431	0.00079	0.01214	—	0.01214	0.01117	—	0.01117	—	77.0236	77.0236	0.00312	0.00062	—	77.2879
Demolition	—	—	—	—	—	0.00168	0.00168	—	0.00025	0.00025	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00727	0.06750	0.09204	0.00014	0.00222	—	0.00222	0.00204	—	0.00204	—	12.7521	12.7521	0.00052	0.00010	—	12.7959
Demolition	—	—	—	—	—	0.00031	0.00031	—	0.00005	0.00005	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03682	0.03880	0.64584	0.00000	0.00000	0.13071	0.13071	0.00000	0.03064	0.03064	—	135.487	135.487	0.00562	0.00474	0.45842	137.498
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	0.00000
Hauling	0.00026	0.01983	0.00781	0.00011	0.00021	0.00449	0.00471	0.00021	0.00123	0.00144	—	16.4900	16.4900	0.00091	0.00263	0.03699	17.3350
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00329	0.00429	0.05215	0.00000	0.00000	0.01168	0.01168	0.00000	0.00274	0.00274	—	11.7840	11.7840	0.00053	0.00043	0.01793	11.9428
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	0.00000

Hauling	0.00002	0.00189	0.00071	0.00001	0.00002	0.00040	0.00042	0.00002	0.00011	0.00013	—	1.49114	1.49114	0.00008	0.00024	0.00144	1.56563
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00060	0.00078	0.00952	0.00000	0.00000	0.00213	0.00213	0.00000	0.00050	0.00050	—	1.95098	1.95098	0.00009	0.00007	0.00297	1.97727
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	0.00000
Hauling	< 0.000005	0.00034	0.00013	< 0.000005	< 0.000005	0.00007	0.00008	< 0.000005	0.00002	0.00002	—	0.24688	0.24688	0.00001	0.00004	0.00024	0.25921

3.3. Site Preparation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43578	3.73818	5.54403	0.00793	0.18506	—	0.18506	0.17026	—	0.17026	—	858.447	858.447	0.03482	0.00696	—	861.393
Dust From Material Movement	—	—	—	—	—	0.13838	0.13838	—	0.01496	0.01496	—	—	—	—	—	—	—
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00358	0.03072	0.04557	0.00007	0.00152	—	0.00152	0.00140	—	0.00140	—	7.05573	7.05573	0.00029	0.00006	—	7.07994
Dust From Material Movement	—	—	—	—	—	0.00114	0.00114	—	0.00012	0.00012	—	—	—	—	—	—	—

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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00065	0.00561	0.00832	0.00001	0.00028	—	0.00028	0.00026	—	0.00026	—	1.16816	1.16816	0.00005	0.00001	—	1.17217
Dust From Material Movement	—	—	—	—	—	0.00021	0.00021	—	0.00002	0.00002	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01841	0.01940	0.32292	0.00000	0.00000	0.06535	0.06535	0.00000	0.01532	0.01532	—	67.7434	67.7434	0.00281	0.00237	0.22921	68.7492
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	0.00000
Hauling	0.04141	3.13534	1.23470	0.01775	0.03380	0.71070	0.74450	0.03380	0.19458	0.22838	—	2,607.48	2,607.48	0.14451	0.41664	5.84914	2,741.10
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00015	0.00019	0.00237	0.00000	0.00000	0.00053	0.00053	0.00000	0.00012	0.00012	—	0.53564	0.53564	0.00002	0.00002	0.00081	0.54286
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	0.00000
Hauling	0.00033	0.02711	0.01019	0.00015	0.00028	0.00579	0.00607	0.00028	0.00159	0.00186	—	21.4351	21.4351	0.00119	0.00342	0.02066	22.5060
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00004	0.00043	0.00000	0.00000	0.00010	0.00010	0.00000	0.00002	0.00002	—	0.08868	0.08868	< 0.000005	< 0.000005	0.00013	0.08988
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	0.00000
Hauling	0.00006	0.00495	0.00186	0.00003	0.00005	0.00106	0.00111	0.00005	0.00029	0.00034	—	3.54883	3.54883	0.00020	0.00057	0.00342	3.72612

3.5. Grading (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02452	9.19052	9.69044	0.01582	0.41898	—	0.41898	0.38547	—	0.38547	—	1,714.25	1,714.25	0.06954	0.01391	—	1,720.14
Dust From Material Movement	—	—	—	—	—	1.38110	1.38110	—	0.66782	0.66782	—	—	—	—	—	—	—
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01965	0.17626	0.18584	0.00030	0.00804	—	0.00804	0.00739	—	0.00739	—	32.8761	32.8761	0.00133	0.00027	—	32.9889
Dust From Material Movement	—	—	—	—	—	0.02649	0.02649	—	0.01281	0.01281	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00359	0.03217	0.03392	0.00006	0.00147	—	0.00147	0.00135	—	0.00135	—	5.44301	5.44301	0.00022	0.00004	—	5.46169
Dust From Material Movement	—	—	—	—	—	0.00483	0.00483	—	0.00234	0.00234	—	—	—	—	—	—	—

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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02761	0.02910	0.48438	0.00000	0.00000	0.09803	0.09803	0.00000	0.02298	0.02298	—	101.615	101.615	0.00422	0.00355	0.34382	103.124
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	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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00052	0.00068	0.00830	0.00000	0.00000	0.00186	0.00186	0.00000	0.00044	0.00044	—	1.87473	1.87473	0.00008	0.00007	0.00285	1.90000
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00010	0.00012	0.00151	0.00000	0.00000	0.00034	0.00034	0.00000	0.00008	0.00008	—	0.31038	0.31038	0.00001	0.00001	0.00047	0.31457
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	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	0.00000

3.7. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49393	4.80600	6.90565	0.01205	0.18874	—	0.18874	0.17364	—	0.17364	—	1,304.47	1,304.47	0.05291	0.01058	—	1,308.94

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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49393	4.80600	6.90565	0.01205	0.18874	—	0.18874	0.17364	—	0.17364	—	1,304.47	1,304.47	0.05291	0.01058	—	1,308.94
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11406	1.10980	1.59465	0.00278	0.04358	—	0.04358	0.04010	—	0.04010	—	301.227	301.227	0.01222	0.00244	—	302.261
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02082	0.20254	0.29102	0.00051	0.00795	—	0.00795	0.00732	—	0.00732	—	49.8716	49.8716	0.00202	0.00040	—	50.0427
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03711	0.03911	0.65101	0.00000	0.00000	0.13176	0.13176	0.00000	0.03088	0.03088	—	136.571	136.571	0.00567	0.00478	0.46209	138.598
Vendor	0.00140	0.05144	0.02488	0.00034	0.00067	0.01280	0.01348	0.00034	0.00354	0.00387	—	46.6597	46.6597	0.00194	0.00666	0.12609	48.8185
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03689	0.04389	0.55556	0.00000	0.00000	0.13176	0.13176	0.00000	0.03088	0.03088	—	129.470	129.470	0.00589	0.00478	0.01199	131.053
Vendor	0.00133	0.05379	0.02548	0.00034	0.00067	0.01280	0.01348	0.00034	0.00354	0.00387	—	46.6835	46.6835	0.00194	0.00666	0.00327	48.7194
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	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00847	0.01103	0.13427	0.00000	0.00000	0.03007	0.03007	0.00000	0.00704	0.00704	—	30.3384	30.3384	0.00136	0.00110	0.04616	30.7474
Vendor	0.00032	0.01249	0.00582	0.00008	0.00016	0.00293	0.00308	0.00008	0.00081	0.00089	—	10.7769	10.7769	0.00045	0.00154	0.01256	11.2589
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00155	0.00201	0.02450	0.00000	0.00000	0.00549	0.00549	0.00000	0.00129	0.00129	—	5.02287	5.02287	0.00023	0.00018	0.00764	5.09058
Vendor	0.00006	0.00228	0.00106	0.00001	0.00003	0.00053	0.00056	0.00001	0.00015	0.00016	—	1.78424	1.78424	0.00007	0.00025	0.00208	1.86404
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	0.00000

3.9. Building Construction (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47604	4.55564	6.89930	0.01205	0.16712	—	0.16712	0.15375	—	0.15375	—	1,304.35	1,304.35	0.05291	0.01058	—	1,308.83
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47604	4.55564	6.89930	0.01205	0.16712	—	0.16712	0.15375	—	0.15375	—	1,304.35	1,304.35	0.05291	0.01058	—	1,308.83
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31954	3.05789	4.63104	0.00809	0.11217	—	0.11217	0.10320	—	0.10320	—	875.524	875.524	0.03552	0.00710	—	878.528

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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05832	0.55807	0.84516	0.00148	0.02047	—	0.02047	0.01883	—	0.01883	—	144.953	144.953	0.00588	0.00118	—	145.450
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03578	0.03478	0.60545	0.00000	0.00000	0.13176	0.13176	0.00000	0.03088	0.03088	—	133.956	133.956	0.00567	0.00478	0.41741	135.939
Vendor	0.00140	0.04926	0.02344	0.00034	0.00034	0.01280	0.01314	0.00034	0.00354	0.00387	—	45.7566	45.7566	0.00194	0.00632	0.11935	47.8084
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03511	0.04345	0.51301	0.00000	0.00000	0.13176	0.13176	0.00000	0.03088	0.03088	—	126.998	126.998	0.00178	0.00478	0.01082	128.477
Vendor	0.00133	0.05123	0.02400	0.00034	0.00034	0.01280	0.01314	0.00034	0.00354	0.00387	—	45.7818	45.7818	0.00194	0.00632	0.00310	47.7173
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02357	0.02916	0.36188	0.00000	0.00000	0.08739	0.08739	0.00000	0.02047	0.02047	—	86.5030	86.5030	0.00119	0.00321	0.12075	87.6093
Vendor	0.00092	0.03460	0.01593	0.00023	0.00023	0.00851	0.00874	0.00023	0.00235	0.00258	—	30.7204	30.7204	0.00130	0.00424	0.03456	32.0520
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00430	0.00532	0.06604	0.00000	0.00000	0.01595	0.01595	0.00000	0.00374	0.00374	—	14.3216	14.3216	0.00020	0.00053	0.01999	14.5047
Vendor	0.00017	0.00631	0.00291	0.00004	0.00004	0.00155	0.00159	0.00004	0.00043	0.00047	—	5.08611	5.08611	0.00022	0.00070	0.00572	5.30658
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	0.00000

3.11. Paving (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48071	4.15212	5.30895	0.00857	0.16795	—	0.16795	0.15451	—	0.15451	—	823.016	823.016	0.03339	0.00668	—	825.840
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02107	0.18201	0.23272	0.00038	0.00736	—	0.00736	0.00677	—	0.00677	—	36.0774	36.0774	0.00146	0.00029	—	36.2012
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00385	0.03322	0.04247	0.00007	0.00134	—	0.00134	0.00124	—	0.00124	—	5.97303	5.97303	0.00024	0.00005	—	5.99353
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06096	0.07543	0.89064	0.00000	0.00000	0.22874	0.22874	0.00000	0.05362	0.05362	—	220.483	220.483	0.00309	0.00829	0.01878	223.051
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	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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00267	0.00331	0.04103	0.00000	0.00000	0.00991	0.00991	0.00000	0.00232	0.00232	—	9.80760	9.80760	0.00014	0.00036	0.01369	9.93303
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00049	0.00060	0.00749	0.00000	0.00000	0.00181	0.00181	0.00000	0.00042	0.00042	—	1.62376	1.62376	0.00002	0.00006	0.00227	1.64453
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	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	0.00000

3.13. Architectural Coating (2028) - 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	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	11.3031	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00500	0.03764	0.05209	0.00008	0.00072	—	0.00072	0.00066	—	0.00066	—	6.21860	6.21860	0.00025	0.00005	—	6.23994
Architectural Coatings	0.52645	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00091	0.00687	0.00951	0.00001	0.00013	—	0.00013	0.00012	—	0.00012	—	1.02956	1.02956	0.00004	0.00001	—	1.03309
Architectural Coatings	0.09608	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00684	0.00782	0.09669	0.00000	0.00000	0.02635	0.02635	0.00000	0.00618	0.00618	—	24.9468	24.9468	0.00031	0.00096	0.00194	25.2413
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	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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00032	0.00036	0.00471	0.00000	0.00000	0.00121	0.00121	0.00000	0.00028	0.00028	—	1.17906	1.17906	0.00001	0.00004	0.00151	1.19419
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00006	0.00007	0.00086	0.00000	0.00000	0.00022	0.00022	0.00000	0.00005	0.00005	—	0.19521	0.19521	< 0.000005	0.00001	0.00025	0.19771
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	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	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	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.26333	0.17522	2.05626	0.00487	0.00305	0.45861	0.46166	0.00283	0.11646	0.11929	—	498.219	498.219	0.02466	0.01984	1.52256	506.270
Total	0.26333	0.17522	2.05626	0.00487	0.00305	0.45861	0.46166	0.00283	0.11646	0.11929	—	498.219	498.219	0.02466	0.01984	1.52256	506.270
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.25994	0.19170	1.91056	0.00467	0.00305	0.45861	0.46166	0.00283	0.11646	0.11929	—	477.388	477.388	0.02584	0.02086	0.03948	484.289
Total	0.25994	0.19170	1.91056	0.00467	0.00305	0.45861	0.46166	0.00283	0.11646	0.11929	—	477.388	477.388	0.02584	0.02086	0.03948	484.289
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.04476	0.03353	0.33947	0.00082	0.00053	0.07864	0.07917	0.00049	0.01997	0.02046	—	76.0299	76.0299	0.00404	0.00329	0.10349	77.2146
Total	0.04476	0.03353	0.33947	0.00082	0.00053	0.07864	0.07917	0.00049	0.01997	0.02046	—	76.0299	76.0299	0.00404	0.00329	0.10349	77.2146

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	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	48.6777	48.6777	0.00464	0.00056	—	48.9613
Total	—	—	—	—	—	—	—	—	—	—	—	48.6777	48.6777	0.00464	0.00056	—	48.9613
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	48.6777	48.6777	0.00464	0.00056	—	48.9613
Total	—	—	—	—	—	—	—	—	—	—	—	48.6777	48.6777	0.00464	0.00056	—	48.9613
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	8.05915	8.05915	0.00077	0.00009	—	8.10610
Total	—	—	—	—	—	—	—	—	—	—	—	8.05915	8.05915	0.00077	0.00009	—	8.10610

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	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.00000	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	0.00000	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.00000	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	0.00000	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.00000	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	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.3. 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	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.65698	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	0.05264	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06972	0.00759	0.79482	0.00003	0.00038	—	0.00038	0.00029	—	0.00029	—	2.12362	2.12362	0.00009	0.00002	—	2.13109
Total	0.77934	0.00759	0.79482	0.00003	0.00038	—	0.00038	0.00029	—	0.00029	0.00000	2.12362	2.12362	0.00009	0.00002	—	2.13109
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.65698	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.05264	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.70962	0.00000	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.11990	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00961	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00871	0.00095	0.09935	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	—	0.24081	0.24081	0.00001	< 0.000005	—	0.24166
Total	0.13822	0.00095	0.09935	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	0.00000	0.24081	0.24081	0.00001	< 0.000005	—	0.24166

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	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	0.99996	3.44693	4.44689	0.10286	0.00248	—	7.75630
Total	—	—	—	—	—	—	—	—	—	—	0.99996	3.44693	4.44689	0.10286	0.00248	—	7.75630
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	0.99996	3.44693	4.44689	0.10286	0.00248	—	7.75630
Total	—	—	—	—	—	—	—	—	—	—	0.99996	3.44693	4.44689	0.10286	0.00248	—	7.75630
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	0.16555	0.57068	0.73623	0.01703	0.00041	—	1.28414
Total	—	—	—	—	—	—	—	—	—	—	0.16555	0.57068	0.73623	0.01703	0.00041	—	1.28414

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	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	5.52014	0.00000	5.52014	0.55172	0.00000	—	19.3131
Total	—	—	—	—	—	—	—	—	—	—	5.52014	0.00000	5.52014	0.55172	0.00000	—	19.3131
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	5.52014	0.00000	5.52014	0.55172	0.00000	—	19.3131
Total	—	—	—	—	—	—	—	—	—	—	5.52014	0.00000	5.52014	0.55172	0.00000	—	19.3131
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	0.91392	0.00000	0.91392	0.09134	0.00000	—	3.19750
Total	—	—	—	—	—	—	—	—	—	—	0.91392	0.00000	0.91392	0.09134	0.00000	—	3.19750

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	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21987	0.21987
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21987	0.21987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21987	0.21987
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21987	0.21987
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03640	0.03640
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03640	0.03640

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	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/8/2026	8/21/2026	5.00000	33.0000	—
Site Preparation	Site Preparation	8/22/2026	8/26/2026	5.00000	3.00000	—
Grading	Grading	8/27/2026	9/4/2026	5.00000	7.00000	—
Building Construction	Building Construction	9/5/2026	12/9/2027	5.00000	329.000	—
Paving	Paving	12/10/2027	12/31/2027	5.00000	16.0000	—
Architectural Coating	Architectural Coating	1/02/2028	1/25/2028	5.00000	17.0000	—

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	Average	1.000000	8.00000	33.0000	0.73000
Demolition	Rubber Tired Dozers	Diesel	Average	1.000000	1.000000	367.000	0.40000
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00000	6.00000	84.0000	0.37000
Site Preparation	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Grading	Graders	Diesel	Average	1.000000	6.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	6.00000	367.000	0.40000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	7.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	4.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	2.00000	6.00000	82.0000	0.20000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Paving	Cement and Mortar Mixers	Diesel	Average	4.00000	6.00000	10.00000	0.56000
Paving	Pavers	Diesel	Average	1.000000	7.00000	81.0000	0.42000
Paving	Rollers	Diesel	Average	1.000000	7.00000	36.0000	0.38000
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	7.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Average	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	10.00000	18.5000	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2000	HHDT,MHDT
Demolition	Hauling	0.24242	20.0000	HHDT

Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	5.00000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	38.3333	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	7.50000	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	10.0800	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	1.49660	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	17.5000	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	2.01600	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

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	62,167.5	20,722.5	0.00000	0.00000	—

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	650.000	0.00000
Site Preparation	557.000	357.140	0.50000	0.00000	0.00000
Grading	—	—	5.25000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Condo/Townhouse High Rise	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00000	531.983	0.03300	0.00400
2027	0.00000	531.983	0.03300	0.00400
2028	0.00000	531.983	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
Condo/Townhouse High Rise	86.9400	78.5400	65.3800	30,170.9	647.206	584.674	486.707	224,601

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Condo/Townhouse High Rise	Wood Fireplaces	0	0
Condo/Townhouse High Rise	Gas Fireplaces	0	0
Condo/Townhouse High Rise	Propane Fireplaces	0	0
Condo/Townhouse High Rise	Electric Fireplaces	0	0
Condo/Townhouse High Rise	No Fireplaces	14	14
Condo/Townhouse High Rise	Conventional Wood Stoves	0	0
Condo/Townhouse High Rise	Catalytic Wood Stoves	0	0
Condo/Townhouse High Rise	Non-Catalytic Wood Stoves	0	0
Condo/Townhouse High Rise	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)
62,167.5	20,722.5	0.00000	0.00000	—

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)
Condo/Townhouse High Rise	51,321.7	346.196	0.0330	0.0040	—

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse High Rise	521,833	15,427.0

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse High Rise	10.2426	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
Condo/Townhouse High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000

Condo/Townhouse High Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

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

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.60000	annual days of extreme heat
Extreme Precipitation	4.95000	annual days with precipitation above 20 mm
Sea Level Rise	0.00000	meters of inundation depth
Wildfire	0.00000	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	5	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	5	1	1	4

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	39.9876
AQ-PM	82.6136
AQ-DPM	87.0566
Drinking Water	85.5002
Lead Risk Housing	99.1430
Pesticides	0.00000
Toxic Releases	93.2483
Traffic	59.3375
Effect Indicators	—
CleanUp Sites	98.8055
Groundwater	54.5243
Haz Waste Facilities/Generators	64.6327
Impaired Water Bodies	0.00000
Solid Waste	35.7159
Sensitive Population	—
Asthma	59.5588
Cardio-vascular	82.2906
Low Birth Weights	65.3580
Socioeconomic Factor Indicators	—
Education	95.8745
Housing	77.5792
Linguistic	91.2167
Poverty	88.8065
Unemployment	94.5211

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	27.34505325
Employed	71.97484922
Median HI	27.79417426
Education	—
Bachelor's or higher	10.07314256
High school enrollment	100
Preschool enrollment	51.30245092
Transportation	—
Auto Access	20.21044527
Active commuting	87.73258052
Social	—
2-parent households	28.71808033
Voting	19.72282818
Neighborhood	—
Alcohol availability	4.516874118
Park access	81.35506224
Retail density	63.98049532
Supermarket access	54.27948159
Tree canopy	57.2308482
Housing	—
Homeownership	23.21314
Housing habitability	19.76132427
Low-inc homeowner severe housing cost burden	19.88964455
Low-inc renter severe housing cost burden	43.53907353

Uncrowded housing	8.571795201
Health Outcomes	—
Insured adults	2.887206467
Arthritis	79.8
Asthma ER Admissions	48.7
High Blood Pressure	79.9
Cancer (excluding skin)	93.3
Asthma	32.2
Coronary Heart Disease	54.4
Chronic Obstructive Pulmonary Disease	50.7
Diagnosed Diabetes	18.3
Life Expectancy at Birth	63.1
Cognitively Disabled	62.4
Physically Disabled	84.3
Heart Attack ER Admissions	12.2
Mental Health Not Good	13.3
Chronic Kidney Disease	20.1
Obesity	12.1
Pedestrian Injuries	89.1
Physical Health Not Good	13.1
Stroke	51.7
Health Risk Behaviors	—
Binge Drinking	48.9
Current Smoker	21.4
No Leisure Time for Physical Activity	15.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	55.0
Elderly	84.2
English Speaking	10.2
Foreign-born	87.6
Outdoor Workers	24.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	9.9
Traffic Density	67.0
Traffic Access	87.4
Other Indices	—
Hardship	87.0
Other Decision Support	—
2016 Voting	16.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0000
Healthy Places Index Score for Project Location (b)	29.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	SouthGate, FlorenceFirestone,

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Characteristics: Utility Information	No natural gas service for project. Electric only project.
Land Use	14 townhouses with a total of 30,700 square feet (total) of building space. Assumes 900 sf of landscaping (i.e. along project frontage along Long Beach boulevard). Total lot acreage is 0.66 acres.
Construction: Construction Phases	Based on anticipated schedule from developer.
Construction: Dust From Material Movement	Accounts for remediation activities and estimated import. 357 cy based on 375 tons of contaminated fill + import of 200 cy and 357 cy to replace with clean fill. Info from developer.
Operations: Vehicle Data	Trip rate revised to be consistent with traffic study prepared by MAT Engineering, Inc. (December 1, 2022). 5.285714286 trips/day/dwelling unit. Derived based on the net total trips per day for the project as a whole (i.e. 74 daily project trips total).
Operations: Hearths	No hearths.
Operations: Energy Use	No natural gas usage (project is all-electric).

8.2. Project Characteristics

8.2.1. Project Details

Model Parameter	Default Value	New Value
Gas Utility	Southern California Gas	User Defined

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	0.00000	0.66000

Building Area	sq. ft	0.00000	30,700.0
Landscape Area	sq. ft	—	900.000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	Start Date	7/1/2026	7/8/2026
Demolition	Demolition	End Date	7/15/2026	8/21/2026
Demolition	Demolition	Work Days per Phase	10.00000	33.0000
Site Preparation	Site Preparation	Start Date	7/16/2026	8/22/2026
Site Preparation	Site Preparation	End Date	7/17/2026	8/26/2026
Site Preparation	Site Preparation	Work Days per Phase	1.000000	3.00000
Grading	Grading	Start Date	7/18/2026	8/27/2026
Grading	Grading	End Date	7/20/2026	9/4/2026
Grading	Grading	Work Days per Phase	2.00000	7.00000
Building Construction	Building Construction	Start Date	7/21/2026	9/5/2026
Building Construction	Building Construction	End Date	12/8/2026	12/9/2027
Building Construction	Building Construction	Work Days per Phase	100.0000	329.000
Paving	Paving	Start Date	12/9/2026	12/10/2027
Paving	Paving	End Date	12/16/2026	12/31/2027
Paving	Paving	Work Days per Phase	5.00000	16.0000
Architectural Coating	Architectural Coating	Start Date	12/17/2026	1/02/2028
Architectural Coating	Architectural Coating	End Date	12/24/2026	1/25/2028
Architectural Coating	Architectural Coating	Work Days per Phase	5.00000	17.0000

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value

Site Preparation	Material Imported	Cubic Yards	—	557.000
Site Preparation	Material Exported	Cubic Yards	—	357.140
Site Preparation	Total Acres Graded	acres	1.50000	0.50000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Condo/Townhouse High Rise	Weekday Trip Rate	size/day	5.44000	6.21000
Condo/Townhouse High Rise	Saturday Trip Rate	size/day	4.91000	5.61000
Condo/Townhouse High Rise	Sunday Trip Rate	size/day	4.09000	4.67000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Units	Default Value	New Value
Condo/Townhouse High Rise	Wood Fireplaces	—	1	0
Condo/Townhouse High Rise	Gas Fireplaces	—	12	0
Condo/Townhouse High Rise	No Fireplaces	—	1	14
Condo/Townhouse High Rise	Hours/Day	—	3	0
Condo/Townhouse High Rise	Days/Year	—	25	0
Condo/Townhouse High Rise	Wood Mass	lb/year	1,019	0
Condo/Townhouse High Rise	Catalytic Wood Stoves	—	1	0
Condo/Townhouse High Rise	Non-Catalytic Wood Stoves	—	1	0
Condo/Townhouse High Rise	Days/Year	—	25	0
Condo/Townhouse High Rise	Wood Mass	lb/year	1,000	0

8.5.3. Energy Usage

Land Use	Model Parameter	Units	Default Value	New Value
Condo/Townhouse High Rise	Natural Gas	kBTU/yr	155,496	—
Condo/Townhouse High Rise	Natural Gas (Subject to Title 24)	kBTU/yr	135,477	—
Condo/Townhouse High Rise	Natural Gas (Not Subject to Title 24)	kBTU/yr	20,018.7	0.00000

Energy Use Summary

Construction Source	Gasoline (gallons)	Diesel (gallons)
Construction Vehicles	991	6,722
Worker Trips	1,636	7,038
Vendor Trips	1	723
Haul Trucks	90	21
Total	**2,719**	**14,504**

Operations Phase (gallons/year)		Gasoline	Diesel	Natural Gas (kBTU/yr)	Electricity (kWh/yr)
Single Family Housing		7,966	671	0	51321.6774
	0	0	0	0	0
All Land Uses		**7,966**	**671**	**0**	**0**

Operations Onroad Energy Use

Year 2028
Air District South Coast AQMD

Vehicle Types	MPG by Fuel Type						Population by Fuel Type						
	Gasoline	Diesel	Natural Gas	Electricity	Plug-in Hybrid	Fuel Cell Electric	Gasoline	Diesel	Natural Gas	Electricity	Plug-in Hybrid	Fuel Cell Electric	Total
LDA	26.6	36.3	0.0	0.0	58.8	0.0	4,181,876	8,030	0	1,013,024	166,212	5,005	5,374,148
LDT1	22.5	22.5	0.0	0.0	53.7	0.0	445,823	67	0	20,226	1,198	0	467,314
LDT2	22.7	31.5	0.0	0.0	52.5	0.0	2,564,926	4,634	0	227,950	41,506	0	2,839,017
LHDT1	14.2	20.7	0.0	0.0	0.0	0.0	190,584	90,863	0	6,797	0	411	288,654
LHDT2	13.3	18.2	0.0	0.0	0.0	0.0	40,623	84,641	0	6,095	0	372	131,731
MCY	39.2	0.0	0.0	0.0	0.0	0.0	260,781	0	0	0	0	0	260,781
MDV	18.5	24.4	0.0	0.0	51.4	0.0	1,606,963	50,934	0	126,265	21,549	0	1,805,711
MH	4.9	10.1	0.0	0.0	0.0	0.0	33,194	13,700	0	0	0	0	46,894
MHDT	5.4	8.9	8.3	0.0	0.0	0.0	32,099	116,766	1,024	4,833	0	363	155,084
HHDT	3.9	6.5	6.4	0.0	0.0	0.0	119	104,097	9,713	3,031	0	394	117,353
OBUS	5.1	7.6	324.2	0.0	0.0	0.0	4,837	2,787	691	430	0	14	8,759
SBUS	9.3	7.4	4.2	0.0	0.0	0.0	2,764	2,383	3,419	223	0	9	8,797
UBUS	5.1	6.1	3.5	0.0	0.0	0.0	824	11	4,983	615	0	18	6,451
							9,365,414	**478,913**	**19,829**	**1,409,488**	**230,465**	**6,585**	**11,510,695**
							81%	**4%**	**0%**	**12%**	**2%**	**0%**	
												14%	LDA

Trips/Day Land Use	Trips/day Weekday	Trips/day Saturday	Trips/day Sunday	Total Weekly	VMT/day Weekday	VMT/day Saturday	VMT/day Sunday	Trip Length
Single Family Housing	86.94	78.54	65.38	578.62	649	586	488	7.46
				0	0	0	0	#DIV/0!
				0	0	0	0	#DIV/0!
				0	0	0	0	#DIV/0!
				0	0	0	0	#DIV/0!
				0	0	0	0	#DIV/0!
				0	0	0	0	#DIV/0!
				0	0	0	0	#DIV/0!
				0	0	0	0	#DIV/0!
				0	0	0	0	#DIV/0!
Total	**0**	**0**	**0**	**579**	**649**	**586**	**488**	

Fleet Mix Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	Total
Single Family Housing	51.175326109	4.472811520	22.776013613	13.867725432	2.569858730	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%
0	51.17532611	4.47281152	22.77601361	13.86772543	2.56985873	0.630734023	1.072241832	0.831404608	0.087460497	0.062696898	2.098604292	0.064019498	0.291104405	100.0%

Vehicle Trips

Weekday Trips	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Daily VMT	Weekday Annual VMT	Annual VMT
Single Family Housing	44	4	20	12	2	1	1	1	0	0	2	0	0	87	648.98	168,736	224600.8223096190
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
Total	**44**	**4**	**20**	**12**	**2**	**1**	**1**	**1**	**0**	**0**	**2**	**0**	**0**	**87**	**649**	**168,736**	**-**

Saturday Trips	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Daily VMT	Saturday Annual VMT
Single Family Housing	40	4	18	11	2	0	1	1	0	0	2	0	0	79	586.28	30,487
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
Total	**40**	**4**	**18**	**11**	**2**	**0**	**1**	**1**	**0**	**0**	**2**	**0**	**0**	**79**		**30,487**

Sunday Trips	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Daily VMT	Sunday Annual VMT		
Single Family Housing	33	3	15	9	2	0	1	1	0	0	1	0	0	65	488.04	25,378	224,601	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	
Total	**33**	**3**	**15**	**9**	**2**	**0**	**1**	**1**	**0**	**0**	**1**	**0**	**0**	**65**		**25,378**	**224,601**	**Annual Total VMT**
																	224,601	

Gallons of Fuel

	5118%	447%	2278%	1387%	257%	63%	107%	83%	9%	6%	210%	6%	29%	10000%		
	42%	5%	26%	19%	3%	0%	1%	0%	0%	0%	2%	0%	1%	100%		
Gasoline	**LDA**	**LDT1**	**LDT2**	**MDV**	**LHDT1**	**LHDT2**	**MHDT**	**HHD**	**Obus**	**Ubus**	**MCY**	**Sbus**	**MH**	**Total**		**VMT**
Single Family Housing	3,364	426	2,038	1,499	268	33	93	0	21	4	120	5	95	7,966		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		#DIV/0!
	3,364	**426**	**2,038**	**1,499**	**268**	**33**	**93**	**0**	**21**	**4**	**120**	**5**	**95**	**7,966**	**Total Gallons Gasoline**	#DIV/0!

Diesel	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	
Single Family Housing	5	0	3	36	88	50	203	254	8	0	0	5	19	671	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	**0**	**3**	**36**	**88**	**50**	**203**	**254**	**8**	**0**	**0**	**5**	**19**	**671**	**Total Gallons Diesel**
	1%	0%	0%	5%	13%	7%	30%	38%	1%	0%	0%	1%	3%	100%	
														8,637	**Total Gallons of Diesel and Gasoline**
														0	**Average MPG**

Utilities

Land Use		NaturalGas Use kBTU/yr	Electricity Use kWh/yr
Single Family Housing			51321.6774
	0		
	0		
	0		
	0		
	0		
	0		
	0		
	0		
	0		
Total		**0**	**0**

Offroad Construction Equipment Energy Use

PhaseName	OffRoadEquipmentType	Fuel Type	Engine Tier	Quantity	UsageHours	HorsePower	Load Factor	Horsepower Category	Num Days	Year	Fuel Consumption Rate (gal/hour)	Fuel Type	Total Fuel Consumption (gal/construction period)
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73	100	33	2026	4.7	Gasoline	909
Demolition	Rubber Tired Dozers	Diesel	Average	1	1	367	0.4	300	33	2026	4.6	Diesel	60
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2	6	84	0.37	100	33	2026	1.6	Diesel	234
Site Preparation	Graders	Diesel	Average	1	8	148	0.41	175	3	2026	3.1	Diesel	31
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1	8	84	0.37	100	3	2026	1.6	Diesel	14
Grading	Graders	Diesel	Average	1	6	148	0.41	175	7	2026	3.1	Diesel	54
Grading	Rubber Tired Dozers	Diesel	Average	1	6	367	0.4	300	7	2026	4.6	Diesel	77
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1	7	84	0.37	100	7	2026	1.6	Diesel	29
Building Constructior	Cranes	Diesel	Average	1	4	367	0.29	300	329	2026	3.3	Diesel	1,246
Building Constructior	Forklifts	Diesel	Average	2	6	82	0.2	100	329	2026	2.0	Diesel	1,583
Building Constructior	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37	100	329	2026	1.6	Diesel	3,109
Paving	Cement and Mortar Mixers	Diesel	Average	4	6	10	0.56	25	16	2026	0.4	Gasoline	83
Paving	Pavers	Diesel	Average	1	7	81	0.42	100	16	2026	1.7	Diesel	82
Paving	Rollers	Diesel	Average	1	7	36	0.38	100	16	2026	1.7	Diesel	72
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1	7	84	0.37	100	16	2026	1.6	Diesel	66
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48	100	17	2026	1.3	Diesel	65

Total	**Gasoline**	**991**
Total	**Diesel**	**6,722**
Total	**All Fuels**	**7,714**