

Terravita Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Terravita
Construction Start Date	11/1/2025
Operational Year	2028
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	6.00
Location	Mill Creek Dr & Ridge Rte Dr, Laguna Hills, CA 92653, USA
County	Orange
City	Laguna Hills
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5929
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	46.0	Dwelling Unit	3.24	142,669	87,990	—	137	Lot 1 - Single Family Attached "A"

Single Family Housing	108	Dwelling Unit	5.47	279,900	54,700	—	322	Lot 2 - Single Family Attached "B"
Single Family Housing	100	Dwelling Unit	6.62	308,650	8,193	—	298	Lot 3 - Single Family Attached "C"
Apartments Mid Rise	210	Dwelling Unit	2.40	233,418	0.00	—	626	Lot 4 Multi-Family
City Park	0.38	Acre	0.38	0.00	16,552	16,552	—	Lot A - Terrace Park
City Park	0.40	Acre	0.40	0.00	17,424	17,424	—	Lot B - Corner Park
Other Asphalt Surfaces	4.33	Acre	0.00	0.00	0.00	—	—	Internal Drive Aisles
Enclosed Parking with Elevator	161	1000sqft	0.00	161,000	0.00	—	—	MFR Parking Structure

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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.3	9.64	45.4	0.06	0.23	4.75	4.97	0.21	1.14	1.36	0.54	20.5	11,258
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.7	43.4	72.8	0.29	0.55	21.3	21.9	0.55	8.93	9.48	5.11	1.76	41,772
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0	8.64	34.5	0.05	0.20	3.83	3.99	0.19	1.15	1.30	0.46	6.47	9,018

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.38	1.58	6.30	0.01	0.04	0.70	0.73	0.03	0.21	0.24	0.08	1.07	1,493

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	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.00	9.64	45.4	0.06	0.23	4.75	4.97	0.21	1.14	1.36	0.54	20.5	11,258
2027	1.82	9.45	44.3	0.06	0.21	4.75	4.96	0.20	1.14	1.34	0.53	18.5	11,136
2028	27.3	3.60	6.05	0.02	0.04	1.34	1.39	0.04	0.34	0.38	0.27	6.36	3,000
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.57	43.4	64.1	0.29	0.55	21.3	21.9	0.55	8.93	9.48	5.11	1.76	41,772
2026	2.00	11.9	44.4	0.10	0.23	7.56	7.79	0.23	3.22	3.45	0.98	0.53	13,142
2027	30.7	22.6	72.8	0.13	0.55	7.20	7.76	0.52	1.77	2.29	1.18	0.83	19,889
2028	27.3	3.71	5.66	0.02	0.04	1.34	1.39	0.04	0.34	0.38	0.29	0.16	2,965
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.18	2.93	6.37	0.02	0.05	1.38	1.43	0.05	0.41	0.46	0.27	1.62	2,726
2026	1.26	7.41	31.4	0.05	0.16	3.83	3.99	0.16	1.15	1.30	0.46	5.89	8,261
2027	5.28	8.64	34.5	0.05	0.20	3.70	3.90	0.19	0.89	1.08	0.46	6.47	9,018
2028	13.0	1.77	2.75	0.01	0.02	0.64	0.66	0.02	0.16	0.18	0.14	1.31	1,422
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.03	0.53	1.16	< 0.005	0.01	0.25	0.26	0.01	0.08	0.08	0.04	0.27	451
2026	0.23	1.35	5.72	0.01	0.03	0.70	0.73	0.03	0.21	0.24	0.08	0.97	1,368
2027	0.96	1.58	6.30	0.01	0.04	0.68	0.71	0.03	0.16	0.20	0.08	1.07	1,493

2028	2.38	0.32	0.50	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	0.02	0.22	235
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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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	35.0	6.54	107	0.20	0.14	19.4	19.5	0.12	4.91	5.04	0.89	63.5	26,128
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	31.5	6.76	69.2	0.19	0.11	19.4	19.5	0.10	4.91	5.02	0.92	8.38	25,217
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.8	6.24	85.4	0.17	0.12	17.0	17.2	0.11	4.32	4.43	0.83	28.5	23,206
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.98	1.14	15.6	0.03	0.02	3.11	3.13	0.02	0.79	0.81	0.14	4.72	3,842

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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.28	6.23	74.1	0.20	0.11	19.4	19.5	0.10	4.91	5.02	0.77	56.6	20,444
Area	25.8	0.31	33.4	< 0.005	0.02	—	0.02	0.02	—	0.02	< 0.005	—	99.5
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.03	—	4,563
Water	—	—	—	—	—	—	—	—	—	—	0.08	—	343
Waste	—	—	—	—	—	—	—	—	—	—	0.00	—	672

Refrig.	—	—	—	—	—	—	—	—	—	—	—	6.91	6.91
Total	35.0	6.54	107	0.20	0.14	19.4	19.5	0.12	4.91	5.04	0.89	63.5	26,128
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.21	6.76	69.2	0.19	0.11	19.4	19.5	0.10	4.91	5.02	0.81	1.47	19,632
Area	22.3	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.03	—	4,563
Water	—	—	—	—	—	—	—	—	—	—	0.08	—	343
Waste	—	—	—	—	—	—	—	—	—	—	0.00	—	672
Refrig.	—	—	—	—	—	—	—	—	—	—	—	6.91	6.91
Total	31.5	6.76	69.2	0.19	0.11	19.4	19.5	0.10	4.91	5.02	0.92	8.38	25,217
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.08	6.03	62.6	0.17	0.10	17.0	17.1	0.09	4.32	4.42	0.71	21.6	17,553
Area	24.7	0.21	22.9	< 0.005	0.02	—	0.02	0.01	—	0.01	< 0.005	—	68.2
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.03	—	4,563
Water	—	—	—	—	—	—	—	—	—	—	0.08	—	343
Waste	—	—	—	—	—	—	—	—	—	—	0.00	—	672
Refrig.	—	—	—	—	—	—	—	—	—	—	—	6.91	6.91
Total	32.8	6.24	85.4	0.17	0.12	17.0	17.2	0.11	4.32	4.43	0.83	28.5	23,206
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.47	1.10	11.4	0.03	0.02	3.11	3.13	0.02	0.79	0.81	0.12	3.58	2,906
Area	4.50	0.04	4.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	11.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.01	—	755
Water	—	—	—	—	—	—	—	—	—	—	0.01	—	56.7
Waste	—	—	—	—	—	—	—	—	—	—	0.00	—	111
Refrig.	—	—	—	—	—	—	—	—	—	—	—	1.14	1.14
Total	5.98	1.14	15.6	0.03	0.02	3.11	3.13	0.02	0.79	0.81	0.14	4.72	3,842

3. Construction Emissions Details

3.1. Demolition (2025) - 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	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.25	8.47	44.3	0.07	0.29	—	0.29	0.28	—	0.28	0.06	—	7,992
Demolition	—	—	—	—	—	6.04	6.04	—	0.91	0.91	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.70	3.64	0.01	0.02	—	0.02	0.02	—	0.02	0.01	—	657
Demolition	—	—	—	—	—	0.50	0.50	—	0.08	0.08	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.13	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	109
Demolition	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.15	1.82	0.00	0.00	0.49	0.49	0.00	0.11	0.11	0.02	0.05	479
Vendor	0.03	1.20	0.59	0.01	0.01	0.30	0.31	0.01	0.08	0.09	0.15	0.08	1,164
Hauling	0.15	9.61	4.13	0.05	0.10	1.98	2.07	0.10	0.55	0.65	1.23	0.42	8,009
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	< 0.005	0.07	40.0
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	0.01	0.11	95.8
Hauling	0.01	0.80	0.34	< 0.005	0.01	0.16	0.17	0.01	0.05	0.05	0.10	0.57	659
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	0.01	6.62
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	15.9
Hauling	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.02	0.09	109

3.3. Site Preparation (2025) - 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	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	4.22	45.8	0.08	0.16	—	0.16	0.16	—	0.16	0.07	—	8,662
Dust From Material Movement	—	—	—	—	—	12.8	12.8	—	6.58	6.58	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.12	1.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	237
Dust From Material Movement	—	—	—	—	—	0.35	0.35	—	0.18	0.18	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	39.3
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.11	1.33	0.00	0.00	0.36	0.36	0.00	0.08	0.08	0.01	0.04	351
Vendor	0.03	1.20	0.59	0.01	0.01	0.30	0.31	0.01	0.08	0.09	0.15	0.08	1,164
Hauling	0.61	37.9	16.3	0.20	0.38	7.80	8.18	0.38	2.19	2.57	4.87	1.64	31,595
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	0.02	9.77
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.04	31.9
Hauling	0.02	1.05	0.44	0.01	0.01	0.21	0.22	0.01	0.06	0.07	0.13	0.75	866
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005	1.62
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	5.29

Hauling	< 0.005	0.19	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	0.12	143
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3.5. Grading (2025) - 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	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	4.71	39.6	0.06	0.17	—	0.17	0.16	—	0.16	0.05	—	6,522
Dust From Material Movement	—	—	—	—	—	5.54	5.54	—	2.67	2.67	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.39	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	63.8
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	10.6
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.14	1.69	0.00	0.00	0.46	0.46	0.00	0.11	0.11	0.02	0.05	447
Vendor	0.03	1.20	0.59	0.01	0.01	0.30	0.31	0.01	0.08	0.09	0.15	0.08	1,164
Hauling	0.10	6.16	2.65	0.03	0.06	1.27	1.33	0.06	0.36	0.42	0.79	0.27	5,130
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.01	4.44
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	11.4
Hauling	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	0.04	50.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005	0.74
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.89
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	8.32

3.7. 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	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	4.69	39.6	0.06	0.16	—	0.16	0.16	—	0.16	0.05	—	6,522

Dust From Material Movement	—	—	—	—	—	5.54	5.54	—	2.67	2.67	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.75	6.36	0.01	0.03	—	0.03	0.03	—	0.03	0.01	—	1,047
Dust From Material Movement	—	—	—	—	—	0.89	0.89	—	0.43	0.43	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.14	1.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	173
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	1.59	0.00	0.00	0.46	0.46	0.00	0.11	0.11	0.02	0.04	439
Vendor	0.02	1.16	0.57	0.01	0.01	0.30	0.31	0.01	0.08	0.09	0.15	0.07	1,146
Hauling	0.07	5.93	2.56	0.03	0.06	1.27	1.33	0.06	0.36	0.42	0.76	0.25	5,035
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.27	0.00	0.00	0.07	0.07	0.00	0.02	0.02	< 0.005	0.11	71.5
Vendor	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.02	0.20	184
Hauling	0.01	0.96	0.41	0.01	0.01	0.20	0.21	0.01	0.06	0.07	0.12	0.67	809

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	0.02	11.8
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.03	30.5
Hauling	< 0.005	0.18	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	0.11	134

3.9. 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	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	6.09	27.8	0.04	0.21	—	0.21	0.20	—	0.20	0.04	—	4,505
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	6.09	27.8	0.04	0.21	—	0.21	0.20	—	0.20	0.04	—	4,505
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	3.37	15.4	0.02	0.11	—	0.11	0.11	—	0.11	0.02	—	2,495

Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.62	2.81	< 0.005	0.02	—	0.02	0.02	—	0.02	< 0.005	—	413
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	0.94	16.4	0.00	0.00	4.06	4.06	0.00	0.95	0.95	0.15	14.0	4,099
Vendor	0.05	2.43	1.21	0.02	0.02	0.65	0.67	0.02	0.18	0.20	0.34	6.16	2,493
Hauling	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	0.31	161
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	1.08	14.1	0.00	0.00	4.06	4.06	0.00	0.95	0.95	0.15	0.36	3,891
Vendor	0.05	2.52	1.24	0.02	0.02	0.65	0.67	0.02	0.18	0.20	0.34	0.16	2,488
Hauling	< 0.005	0.19	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	0.01	161
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.60	8.12	0.00	0.00	2.24	2.24	0.00	0.52	0.52	0.08	3.36	2,187
Vendor	0.03	1.41	0.68	0.01	0.01	0.36	0.37	0.01	0.10	0.11	0.19	1.48	1,379
Hauling	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	0.01	0.07	89.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	1.48	0.00	0.00	0.41	0.41	0.00	0.10	0.10	0.01	0.56	362
Vendor	< 0.005	0.26	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	0.03	0.24	228

Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	14.8
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3.11. 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	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	6.01	27.8	0.04	0.19	—	0.19	0.18	—	0.18	0.04	—	4,505
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	6.01	27.8	0.04	0.19	—	0.19	0.18	—	0.18	0.04	—	4,505
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	4.29	19.8	0.03	0.14	—	0.14	0.13	—	0.13	0.03	—	3,218
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	0.78	3.62	0.01	0.03	—	0.03	0.02	—	0.02	< 0.005	—	533
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.93	15.3	0.00	0.00	4.06	4.06	0.00	0.95	0.95	0.15	12.6	4,030
Vendor	0.05	2.33	1.16	0.02	0.02	0.65	0.67	0.02	0.18	0.20	0.32	5.60	2,443
Hauling	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	0.29	158
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.88	0.95	13.2	0.00	0.00	4.06	4.06	0.00	0.95	0.95	0.15	0.33	3,826
Vendor	0.05	2.43	1.19	0.02	0.02	0.65	0.67	0.02	0.18	0.20	0.32	0.14	2,439
Hauling	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	0.01	158
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.63	0.76	9.83	0.00	0.00	2.89	2.89	0.00	0.68	0.68	0.11	3.89	2,773
Vendor	0.03	1.75	0.84	0.01	0.01	0.46	0.48	0.01	0.13	0.14	0.23	1.72	1,743
Hauling	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.02	0.09	113
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.14	1.79	0.00	0.00	0.53	0.53	0.00	0.12	0.12	0.02	0.64	459
Vendor	0.01	0.32	0.15	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	0.04	0.29	289
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.01	18.7

3.13. 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	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00	6.67	21.9	0.03	0.27	—	0.27	0.25	—	0.25	0.03	—	3,192
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Paving	0.44	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.84	2.76	< 0.005	0.03	—	0.03	0.03	—	0.03	< 0.005	—	402
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Paving	0.06	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.50	< 0.005	0.01	—	0.01	0.01	—	0.01	< 0.005	—	66.6
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.12	1.70	0.00	0.00	0.52	0.52	0.00	0.12	0.12	0.02	0.04	493
Vendor	0.02	1.28	0.62	0.01	0.01	0.34	0.35	0.01	0.09	0.10	0.17	0.08	1,284
Hauling	0.01	1.13	0.49	0.01	0.01	0.25	0.26	0.01	0.07	0.08	0.15	0.05	970
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	< 0.005	0.09	63.1
Vendor	< 0.005	0.16	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	0.16	162
Hauling	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.02	0.10	122
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	0.01	10.4
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.03	26.8
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.02	20.2

3.15. Architectural Coating (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	1.66	2.25	< 0.005	0.04	—	0.04	0.04	—	0.04	< 0.005	—	268

Architectura I	26.8	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.23	0.31	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	< 0.005	—	37.2
Architectura I Coatings	3.73	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	6.16
Architectura I Coatings	0.68	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.19	2.64	0.00	0.00	0.81	0.81	0.00	0.19	0.19	0.03	0.07	765
Vendor	0.04	1.98	0.97	0.01	0.01	0.53	0.54	0.01	0.15	0.16	0.26	0.12	1,990
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.03	0.38	0.00	0.00	0.11	0.11	0.00	0.03	0.03	< 0.005	0.15	108
Vendor	0.01	0.28	0.13	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	0.04	0.27	277
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	0.03	17.9
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	0.05	45.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. 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	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	1.62	2.24	< 0.005	0.03	—	0.03	0.03	—	0.03	< 0.005	—	268
Architectural Coatings	26.8	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	1.62	2.24	< 0.005	0.03	—	0.03	0.03	—	0.03	< 0.005	—	268
Architectural Coatings	26.8	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.77	1.07	< 0.005	0.01	—	0.01	0.01	—	0.01	< 0.005	—	128

Architectural Coatings	12.8	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.14	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	21.2
Architectural Coatings	2.34	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	2.89	0.00	0.00	0.81	0.81	0.00	0.19	0.19	< 0.005	2.25	784
Vendor	0.04	1.83	0.91	0.01	0.01	0.53	0.54	0.01	0.15	0.16	0.26	4.11	1,949
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.19	2.49	0.00	0.00	0.81	0.81	0.00	0.19	0.19	0.03	0.06	752
Vendor	0.04	1.91	0.93	0.01	0.01	0.53	0.54	0.01	0.15	0.16	0.26	0.11	1,946
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.09	1.24	0.00	0.00	0.39	0.39	0.00	0.09	0.09	0.01	0.46	364
Vendor	0.02	0.91	0.44	0.01	0.01	0.25	0.26	0.01	0.07	0.08	0.12	0.85	930
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	< 0.005	0.08	60.3
Vendor	< 0.005	0.17	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.02	0.14	154

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	5.46	3.66	43.6	0.12	0.07	11.4	11.5	0.06	2.89	2.95	0.45	33.3	12,027
Apartments Mid Rise	3.82	2.56	30.5	0.08	0.05	7.97	8.02	0.04	2.02	2.07	0.32	23.3	8,418
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	9.28	6.23	74.1	0.20	0.11	19.4	19.5	0.10	4.91	5.02	0.77	56.6	20,444
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	5.42	3.98	40.7	0.11	0.07	11.4	11.5	0.06	2.89	2.95	0.47	0.86	11,549
Apartments Mid Rise	3.79	2.79	28.5	0.08	0.05	7.97	8.02	0.04	2.02	2.07	0.33	0.60	8,083
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	9.21	6.76	69.2	0.19	0.11	19.4	19.5	0.10	4.91	5.02	0.81	1.47	19,632
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.96	0.72	7.44	0.02	0.01	2.03	2.04	0.01	0.51	0.53	0.08	2.33	1,894
Apartments Mid Rise	0.51	0.38	3.98	0.01	0.01	1.08	1.09	0.01	0.28	0.28	0.04	1.25	1,013
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.47	1.10	11.4	0.03	0.02	3.11	3.13	0.02	0.79	0.81	0.12	3.58	2,906

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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.02	—	2,566

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.01	—	1,127
City Park	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.01	—	869
Total	—	—	—	—	—	—	—	—	—	—	0.03	—	4,563
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.02	—	2,566
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.01	—	1,127
City Park	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.01	—	869
Total	—	—	—	—	—	—	—	—	—	—	0.03	—	4,563
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	< 0.005	—	425
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	< 0.005	—	187
City Park	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	< 0.005	—	144
Total	—	—	—	—	—	—	—	—	—	—	0.01	—	755

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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00

City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	—	0.00

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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	20.7	—	—	—	—	—	—	—	—	—	—	—	—

Architectura I	1.65	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.44	0.31	33.4	< 0.005	0.02	—	0.02	0.02	—	0.02	< 0.005	—	99.5
Total	25.8	0.31	33.4	< 0.005	0.02	—	0.02	0.02	—	0.02	< 0.005	—	99.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	20.7	—	—	—	—	—	—	—	—	—	—	—	—
Architectura I Coatings	1.65	—	—	—	—	—	—	—	—	—	—	—	—
Total	22.3	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	3.77	—	—	—	—	—	—	—	—	—	—	—	—
Architectura I Coatings	0.30	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.43	0.04	4.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	11.3
Total	4.50	0.04	4.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	11.3

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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.05	—	192
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.04	—	143
City Park	—	—	—	—	—	—	—	—	—	—	< 0.005	—	7.60
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.08	—	343
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.05	—	192
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.04	—	143
City Park	—	—	—	—	—	—	—	—	—	—	< 0.005	—	7.60
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.08	—	343
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.01	—	31.8
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.01	—	23.7

City Park	—	—	—	—	—	—	—	—	—	—	< 0.005	—	1.26
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.01	—	56.7

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	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.00	—	379
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.00	—	293
City Park	—	—	—	—	—	—	—	—	—	—	0.00	—	0.13
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	—	672
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.00	—	379
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.00	—	293
City Park	—	—	—	—	—	—	—	—	—	—	0.00	—	0.13
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	—	672
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.00	—	62.7
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.00	—	48.5
City Park	—	—	—	—	—	—	—	—	—	—	0.00	—	0.02
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	—	111

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	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.24	5.24
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1.67	1.67
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.91	6.91
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.24	5.24
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1.67	1.67
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.91	6.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.14	1.14

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	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	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	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	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	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	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	11/1/2025	12/12/2025	5.00	30.0	—
Site Preparation	Site Preparation	12/13/2025	12/26/2025	5.00	10.0	—
Grading	Grading	12/27/2025	3/23/2026	5.00	61.0	—
Building Construction	Building Construction	3/24/2026	12/31/2027	5.00	464	—
Paving	Paving	10/29/2027	12/31/2027	5.00	46.0	—
Architectural Coating	Architectural Coating	10/22/2027	8/31/2028	5.00	225	—

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	Rubber Tired Dozers	Diesel	Tier 4 Final	4.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	6.00	8.00	36.0	0.38
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	4.00	10.0	82.0	0.42
Demolition	Crushing/Proc. Equipment	Diesel	Tier 4 Final	1.00	8.00	350	0.74
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	5.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	8.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	2.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	6.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	4.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	4.00	8.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	4.00	10.0	10.0	0.56
Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	7.00	84.0	0.37

Architectural Coating	Air Compressors	Diesel	Average	2.00	6.00	37.0	0.48
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5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	37.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	35.0	10.2	HHDT,MHDT
Demolition	Hauling	109	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	27.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	35.0	10.2	HHDT,MHDT
Site Preparation	Hauling	431	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	35.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	35.0	10.2	HHDT,MHDT
Grading	Hauling	70.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	310	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	76.0	10.2	HHDT,MHDT
Building Construction	Hauling	2.24	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	40.0	18.5	LDA,LDT1,LDT2

Paving	Vendor	40.0	10.2	HHDT,MHDT
Paving	Hauling	13.7	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	62.1	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	62.0	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

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	1,953,390	651,130	0.00	0.00	—

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	0.00	0.00	0.00	285,061	—
Site Preparation	34,493	—	35.0	0.00	—

Grading	34,167	—	122	0.00	—
Building Construction	8,320	—	0.00	0.00	—
Paving	5,050	—	0.00	0.00	10.5

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

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	0.51	0%
Single Family Housing	1.19	0%
Single Family Housing	1.10	0%
Apartments Mid Rise	—	0%
City Park	0.00	0%
City Park	0.00	0%
Other Asphalt Surfaces	4.33	100%
Enclosed Parking with Elevator	3.40	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005

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
Single Family Housing	628	634	569	226,569	5,315	5,366	4,813	1,916,417
Single Family Housing	629	634	569	226,609	5,317	5,362	4,814	1,916,752
Single Family Housing	628	634	569	226,456	5,312	5,363	4,813	1,915,464
Apartments Mid Rise	956	861	1,331	363,431	8,082	7,283	11,262	3,074,049
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
1953389.9249999998	651,130	0.00	0.00	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	317,694	532	0.0330	0.0040	0.00
Single Family Housing	745,889	532	0.0330	0.0040	0.00
Single Family Housing	690,638	532	0.0330	0.0040	0.00
Apartments Mid Rise	770,509	532	0.0330	0.0040	0.00
City Park	0.00	532	0.0330	0.0040	0.00
City Park	0.00	532	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	532	0.0330	0.0040	0.00
Enclosed Parking with Elevator	594,320	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	1,726,180	1,393,802
Single Family Housing	4,052,770	866,473
Single Family Housing	3,752,565	129,781
Apartments Mid Rise	7,880,387	0.00
City Park	0.00	476,711
City Park	0.00	501,826

Other Asphalt Surfaces	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	36.3	—
Single Family Housing	85.4	—
Single Family Housing	79.1	—
Apartments Mid Rise	155	—
City Park	0.03	—
City Park	0.03	—
Other Asphalt Surfaces	0.00	—
Enclosed Parking with Elevator	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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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
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	8.79	annual days of extreme heat
Extreme Precipitation	4.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	8.32	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 $\frac{3}{4}$ 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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	64.7
AQ-PM	50.7

AQ-DPM	41.1
Drinking Water	40.5
Lead Risk Housing	22.8
Pesticides	0.00
Toxic Releases	63.7
Traffic	85.8
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	41.8
Impaired Water Bodies	77.3
Solid Waste	9.67
Sensitive Population	—
Asthma	11.4
Cardio-vascular	12.8
Low Birth Weights	38.2
Socioeconomic Factor Indicators	—
Education	23.7
Housing	47.6
Linguistic	55.1
Poverty	25.3
Unemployment	41.8

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	87.24496343

Employed	91.37687668
Median HI	78.04439882
Education	—
Bachelor's or higher	80.88027717
High school enrollment	100
Preschool enrollment	76.50455537
Transportation	—
Auto Access	76.73553189
Active commuting	16.51482099
Social	—
2-parent households	47.27319389
Voting	53.2144232
Neighborhood	—
Alcohol availability	74.63107917
Park access	81.35506224
Retail density	81.68869498
Supermarket access	35.3137431
Tree canopy	67.04735019
Housing	—
Homeownership	65.03272167
Housing habitability	66.27742846
Low-inc homeowner severe housing cost burden	43.08995252
Low-inc renter severe housing cost burden	52.02104453
Uncrowded housing	51.79006801
Health Outcomes	—
Insured adults	90.41447453
Arthritis	0.0
Asthma ER Admissions	84.1

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	76.1
Cognitively Disabled	18.3
Physically Disabled	50.9
Heart Attack ER Admissions	73.3
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	69.2
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.4
SLR Inundation Area	0.0
Children	65.5
Elderly	24.3
English Speaking	57.9
Foreign-born	62.8
Outdoor Workers	93.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	80.0
Traffic Density	92.7
Traffic Access	60.0
Other Indices	—
Hardship	18.2
Other Decision Support	—
2016 Voting	80.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	25.0
Healthy Places Index Score for Project Location (b)	84.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Land Use	User defined inputs based on site plan and applicant provided data needs.
Construction: Construction Phases	Schedule provided by Project Applicant in consultation with Project contractor
Construction: Off-Road Equipment	Data provided by Applicant
Construction: Demolition	Based on Applicant Provided data re: Existing uses
Construction: Paving	Paving area added for internal drive aisles and parking garage
Operations: Hearths	No fire places or wood stoves are proposed
Operations: Energy Use	All electric development. Project natural gas use was converted to kWh and added to projected electrical consumption
Operations: Vehicle Data	Trip rates adjusted to be consistent with TIA. SFR trips divided evenly across the three SFR uses. No changes made to default trip lengths/trip types.
Construction: Off-Road Equipment EF	Crushing/Proc. Equipment EFs adjusted to represent a rock crusher powered by a diesel generator.
Construction: Dust From Material Movement	Based on applicant provided data.
Construction: Architectural Coatings	SCAQMD Super Compliant Paint shall be used for all residential interiors and exteriors