

Appendix B: Air Quality, GHG Emissions, and Energy Supporting Information

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Appendix B: Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

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Project Number: 2148.0016
Official Project Name: Hidden Canyon Residences + Preserve EIR
Address: 10971 Dublin Canyon Rd.
City: Pleasanton
County: Alameda

CSC Electricity Demand Forecast Zone (DFZ): 1
Electric Utility Provider: PG&E

Air District: Bay Area AQMD
Air Basin: San Francisco Bay Area

Construction Start Date: 1/5/2026
Working Days per Week: 5
Monday
Dismantling? Yes
Self-Insured? Yes
Operational Start Date/Year: 2028
Emergency Dismantling? No
All-Electric Project? Yes

Updated 3/6/25 (due to applicant indicating all electric).

< > January 2026

So	Mo	Tu	We	Th	Fr	Sa	Su
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	

2148.0016 - Hidden Canyon Residences + Preserve EIR									
Land Use	Subtype	Unit	Number or Size	Lot Acreage	Building SF	Landscaping (sq ft)	Special Landscaping (sq ft)	Description	
Residential	Single Family Housing	Dwelling Unit	30	8.83	103,263	129,975		28 single family homes on 11.48 acres plus the PDS. Ten Lester homes were added. Building SF from also plan (total all homes). Assumed half of the lot area was paved.	
Paving	Other Asphalt Surfaces	Acres	2.6	0.0				Right-of-way streets and sidewalks (from the PDS) - with note requirements for Right-of-way (R/W) of road widening on both sides of Dublin Canyon Road along the site.	
Paving	Other Non-Asphalt Surfaces	Acres	1	0.0				Off-site on-paved improvements which include 0.5 ft sidewalk along Dublin Canyon Road and 2.0 ft sidewalk of Cemetery Court Road.	
Recreation	City Park	Acres	29	76.00				Added to park land use to account for trip generation related to the park operations.	
Open Space of 117.3 acres not included in Modeling since it is undeveloped during construction and before operations.				Total	16.10	103,263	129,975	0	

Changes to Default	Construction Phases	Phase Name	Phase Type	Start Date	End Date	Acres < =		Hatched Work Days	Phase Description
						Days Per Week	Calculated (Default Work)		
Default	Construction	Site Preparation (Excavation, Removal of Trees)	Grading	1/10/2026	1/10/2026	0	0	0	
		Grading	Grading	1/10/2026	1/10/2026	0	0	0	
		Building Construction	Building Construction	1/10/2026	1/10/2026	0	0	0	
		Paving	Paving	1/10/2026	1/10/2026	0	0	0	
		Architectural Coating	Architectural Coating	1/10/2026	1/10/2026	0	0	0	

Default	Construction	Off-Road Equipment	Construction		Notes Regarding Changes to Default	
			Phase Name	Phase Type	Start Date	End Date
Default	Construction	Off-Road Equipment	Site Preparation (Excavation, Removal of Trees)	Grading	1/10/2026	1/10/2026
			Grading	Grading	1/10/2026	1/10/2026
			Building Construction	Building Construction	1/10/2026	1/10/2026
			Paving	Paving	1/10/2026	1/10/2026
			Architectural Coating	Architectural Coating	1/10/2026	1/10/2026

Default	Construction	Off-Road Equipment	Construction		Notes Regarding Changes to Default	
			Phase Name	Phase Type	Start Date	End Date
Default	Construction	Off-Road Equipment	Site Preparation (Excavation, Removal of Trees)	Grading	1/10/2026	1/10/2026
			Grading	Grading	1/10/2026	1/10/2026
			Building Construction	Building Construction	1/10/2026	1/10/2026
			Paving	Paving	1/10/2026	1/10/2026
			Architectural Coating	Architectural Coating	1/10/2026	1/10/2026

Changes to Default	Material Movement	Material Movement		Notes Regarding Changes to Default	
		Phase Name	Phase Type	Start Date	End Date
Changes to Default	Material Movement	Site Preparation (Excavation, Removal of Trees)	Grading	1/10/2026	1/10/2026
		Grading	Grading	1/10/2026	1/10/2026

Changes to Default	Construction	Construction		Notes Regarding Changes to Default	
		Phase Name	Phase Type	Start Date	End Date
Changes to Default	Construction	Site Preparation (Excavation, Removal of Trees)	Grading	1/10/2026	1/10/2026
		Grading	Grading	1/10/2026	1/10/2026

Changes to Default	Construction	Trip and Delay (Edits only)	Construction		Notes Regarding Changes to Default	
			Phase Name	Phase Type	Start Date	End Date
Changes to Default	Construction	Trip and Delay (Edits only)	Site Preparation (Excavation, Removal of Trees)	Grading	1/10/2026	1/10/2026
			Grading	Grading	1/10/2026	1/10/2026

Default	Construction	Architectural Coating	Interior Area (sq ft)		Exterior Area (sq ft)		Notes	
			Residential	Non-Residential	Residential	Non-Residential	Not Applicable	
Default	Construction	Architectural Coating	Residential	Non-Residential	Residential	Non-Residential	Not Applicable	
			Residential	Non-Residential	Residential	Non-Residential	Not Applicable	

Default	Construction	Paved Area	VOC Off-gassing Emission Factor		Notes	
			Residential	Non-Residential	Residential	Non-Residential
Default	Construction	Paved Area	Residential	Non-Residential	Residential	Non-Residential
			Residential	Non-Residential	Residential	Non-Residential

Default	Construction	Electricity	GHG Intensity Factor		Construction Electricity	
			CO2	CH4	NO2	Electricity
Default	Construction	Electricity	CO2	CH4	NO2	Electricity
			CO2	CH4	NO2	Electricity

Changes to Default	Operations	Land Use Subtype	Size	Units	Weekday Primary	Weekday Secondary	Weekday Tertiary	Weekday Quaternary	Weekday Quintary	Weekday Sextary	Weekday Septary	Weekday Octary	Weekday Undecary	Weekday Duodecary	Weekday Tridecary	Weekday Quattuordecary	Weekday Quindecary	Weekday Sexdecary	Weekday Septdecary	Weekday Viginti	Weekday Viginti et unum	Weekday Viginti et duo	Weekday Viginti et tres	Weekday Viginti et quattuor	Weekday Viginti et quinque	Weekday Viginti et sex	Weekday Viginti et septem	Weekday Viginti et octo	Weekday Viginti et novem	Weekday Viginti et decem	Weekday Viginti et undecim	Weekday Viginti et duodecim	Weekday Viginti et tredecim	Weekday Viginti et quattuordecim	Weekday Viginti et quindecim	Weekday Viginti et sexdecim	Weekday Viginti et septemdecim	Weekday Viginti et octodecim	Weekday Viginti et novemdecim	Weekday Viginti et duodecim	Weekday Viginti et tredecim	Weekday Viginti et quattuordecim	Weekday Viginti et quindecim	Weekday Viginti et 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Demolition Debris Calculations

Parameters ¹			
1	building sq ft	10	cf building volume
1	cf building volume	0.25	cf waste volume
1	cf	0.037	cy
1	cy waste volume	0.5	ton waste weight
1	sf	0.04625	ton waste material

Description	square feet ²	height/ depth (ft) ³	density (lbs/cf) ⁴	Demolition Weight (pounds)	Demolition Weight (tons)
Buildings	2,803	-	-	-	129.64
Pavement	4,700	0.5	148	347,800	173.90
Totals	7,503	-	-	-	304

Notes:

cy = cubic yard

gsf = gross square feet

sf = square feet

cf = cubic feet

¹ Source: California Air Pollution Control Officers Association (CAPCOA). 2017. Appendix A Calculation Details for CalEEMod.

² Source: Google Earth Aerial Imagery.

³ Source: DC Construction Services. 2017. How Thick Is Parking Lot Asphalt? Website: <https://dccpaving.com/how-thick-is-parking-lot-asphalt/>.

⁴ Source: SFGate. 2021. How to Calculate Asphalt Weight Per Yard. Website: <https://homeguides.sfgate.com/calculate-asphalt-weight-per-yard-81825.html>.

Hidden Canyon Residences + Preserve EIR
Site Preparation - Tree Removal Haul

Number of Trees to Be Removed	0
Volume Factor	2.67 CY/tree
Volume Tree Removal	0 CY
Capacity per vendor truck	10 CY
Truckloads Required	-
Trips (2 per truck load)	0
Days in Site Prep Phase	5
One-way Vendor Trips per day	-

Federal Emergency Management Agency (FEMA) , 2007. FEMA - Bulletin 325, Public Assistance Debris Management Guid, July.
15 trees, 8 inch in diameter = 40 CY (average)

Hidden Canyon

Asphalt Paving Construction Trips Calculation

Paved area (sf)	25,265
Asphalt volume (cube feet) assume 6 inch pavement	12,632
Asphalt volume (cy)	468
Capacity per vendor truck (CY per truck)	16
Trips	58.48
Days in paving phase	20
One-way Vendor Trips per day	6

Concrete area (sf)	26,136
Concrete volume (cube feet) assume 4 inch thick sidewalks	8,712
Concrete volume (cy)	323
Capacity per concrete mixer truck (CY per truck)	8
Trips	80.67
Days in paving phase	20
One-way Vendor Trips per day	8

Total Trips during Paving Phase	14
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Hidden Canyon Residences and Preserve Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Hidden Canyon Residences and Preserve
Construction Start Date	1/5/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	17.2
Location	10971 Dublin Canyon Rd, Pleasanton, CA 94588, USA
County	Alameda
City	Unincorporated
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1678
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
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
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Single Family Housing	30.0	Dwelling Unit	8.80	102,253	129,978	0.00	85.0	30 single family homes on 11.40 acres (per the PD). Two Lester homes were added. Building SF from site plan (total all homes). Assumed half of the lot sizes are landscape with irrigation.
Other Asphalt Surfaces	2.60	Acre	7.60	0.00	0.00	0.00	—	Right of way streets and sidewalks (from the PD) + off-site improvements for bicycle lanes (6 ft of road widening on both sides of Dublin Canyon Road along the project site)
Other Non-Asphalt Surfaces	1.00	Acre	0.58	0.00	0.00	0.00	—	Offsite non-asphalt improvements which includes a 5 ft sidewalk along Dublin Canyon Road and a 13 ft widening of Devaney Creek Bridge
City Park	70.0	Acre	70.0	0.00	0.00	0.00	—	70 acre park with trailhead to account for traffic-related to park operations.

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.1	26.8	78.9	58.5	0.32	2.17	13.4	15.5	1.83	4.08	5.91	—	44,242	44,242	2.25	5.60	76.0	46,042
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.35	3.86	71.3	45.2	0.30	1.79	13.3	15.1	1.48	4.05	5.53	—	41,676	41,676	2.14	5.57	1.96	43,392
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.23	5.07	12.8	12.1	0.04	0.40	1.35	1.75	0.35	0.41	0.76	—	5,503	5,503	0.27	0.56	3.27	5,678
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.95	0.93	2.34	2.21	0.01	0.07	0.25	0.32	0.06	0.07	0.14	—	911	911	0.04	0.09	0.54	940

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.72	5.00	78.9	58.5	0.32	2.17	13.4	15.5	1.83	4.08	5.91	—	44,242	44,242	2.25	5.60	76.0	46,042
2027	27.1	26.8	17.1	24.1	0.04	0.64	0.34	0.99	0.59	0.09	0.68	—	4,615	4,615	0.19	0.12	1.74	4,657
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.35	3.86	71.3	45.2	0.30	1.79	13.3	15.1	1.48	4.05	5.53	—	41,676	41,676	2.14	5.57	1.96	43,392

2027	1.27	1.06	9.52	13.3	0.02	0.34	0.11	0.45	0.31	0.03	0.34	—	2,563	2,563	0.10	0.04	0.01	2,576
2028	1.22	1.02	9.05	13.3	0.02	0.30	0.11	0.41	0.28	0.03	0.30	—	2,560	2,560	0.10	0.04	0.01	2,573
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.41	1.04	12.8	12.1	0.04	0.40	1.35	1.75	0.35	0.41	0.76	—	5,503	5,503	0.27	0.56	3.27	5,678
2027	5.23	5.07	7.14	9.98	0.02	0.25	0.09	0.34	0.23	0.02	0.25	—	1,912	1,912	0.08	0.03	0.18	1,922
2028	0.01	0.01	0.09	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	25.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.26	0.19	2.34	2.21	0.01	0.07	0.25	0.32	0.06	0.07	0.14	—	911	911	0.04	0.09	0.54	940
2027	0.95	0.93	1.30	1.82	< 0.005	0.05	0.02	0.06	0.04	< 0.005	0.05	—	316	316	0.01	< 0.005	0.03	318
2028	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.15	4.15	< 0.005	< 0.005	< 0.005	4.17

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.24	4.13	1.07	12.5	0.03	0.02	2.73	2.75	0.02	0.69	0.71	16.0	3,076	3,092	1.73	0.13	9.26	3,184
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.04	3.93	1.23	10.3	0.03	0.02	2.73	2.75	0.02	0.69	0.71	16.0	2,906	2,922	1.75	0.14	0.95	3,009
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.04	3.93	1.12	10.3	0.03	0.02	2.59	2.60	0.02	0.66	0.67	16.0	2,805	2,821	1.74	0.13	4.26	2,909
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.74	0.72	0.20	1.88	< 0.005	< 0.005	0.47	0.48	< 0.005	0.12	0.12	2.65	464	467	0.29	0.02	0.71	482

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.34	1.06	10.8	0.03	0.02	2.73	2.75	0.02	0.69	0.71	—	2,959	2,959	0.11	0.13	8.53	3,008
Area	2.79	2.79	0.02	1.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.55	4.55	< 0.005	< 0.005	—	4.57
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	104	104	0.02	< 0.005	—	105
Water	—	—	—	—	—	—	—	—	—	—	—	2.04	8.83	10.9	0.21	0.01	—	17.7
Waste	—	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.39	0.00	—	48.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73
Total	4.24	4.13	1.07	12.5	0.03	0.02	2.73	2.75	0.02	0.69	0.71	16.0	3,076	3,092	1.73	0.13	9.26	3,184
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.40	1.29	1.23	10.3	0.03	0.02	2.73	2.75	0.02	0.69	0.71	—	2,793	2,793	0.13	0.14	0.22	2,837
Area	2.64	2.64	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	104	104	0.02	< 0.005	—	105
Water	—	—	—	—	—	—	—	—	—	—	—	2.04	8.83	10.9	0.21	0.01	—	17.7
Waste	—	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.39	0.00	—	48.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73
Total	4.04	3.93	1.23	10.3	0.03	0.02	2.73	2.75	0.02	0.69	0.71	16.0	2,906	2,922	1.75	0.14	0.95	3,009
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.33	1.22	1.11	9.47	0.03	0.02	2.59	2.60	0.02	0.66	0.67	—	2,690	2,690	0.12	0.13	3.53	2,734
Area	2.72	2.71	0.01	0.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	2.24	2.24	< 0.005	< 0.005	—	2.25
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	104	104	0.02	< 0.005	—	105
Water	—	—	—	—	—	—	—	—	—	—	—	2.04	8.83	10.9	0.21	0.01	—	17.7
Waste	—	Appendix B	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.39	0.00	— ¹⁴	48.8

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73
Total	4.04	3.93	1.12	10.3	0.03	0.02	2.59	2.60	0.02	0.66	0.67	16.0	2,805	2,821	1.74	0.13	4.26	2,909
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.22	0.20	1.73	< 0.005	< 0.005	0.47	0.48	< 0.005	0.12	0.12	—	445	445	0.02	0.02	0.58	453
Area	0.50	0.49	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	0.37	0.37	< 0.005	< 0.005	—	0.37
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	17.2	17.2	< 0.005	< 0.005	—	17.3
Water	—	—	—	—	—	—	—	—	—	—	—	0.34	1.46	1.80	0.03	< 0.005	—	2.93
Waste	—	—	—	—	—	—	—	—	—	—	—	2.31	0.00	2.31	0.23	0.00	—	8.08
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
Total	0.74	0.72	0.20	1.88	< 0.005	< 0.005	0.47	0.48	< 0.005	0.12	0.12	2.65	464	467	0.29	0.02	0.71	482

3. Construction Emissions Details

3.1. Site Preparation (Demo + Removal of Trees) (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	0.56	0.56	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.09	0.08	0.68	0.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	113	113	< 0.005	< 0.005	—	113
Demoliti on	—	—	—	—	—	—	0.02	0.02	—	< 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	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.01	0.12	0.11	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.7
Demoliti on	—	—	—	—	—	—	< 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	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.48	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	0.01	0.01	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.55	0.21	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	436	436	0.02	0.07	0.02	457
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.91	3.91	< 0.005	< 0.005	0.01	3.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.01	15.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.65	0.65	< 0.005	< 0.005	< 0.005	0.66
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.37	2.37	< 0.005	< 0.005	< 0.005	2.49

3.3. Grading (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.70	3.70	—	1.44	1.44	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.70	3.70	—	1.44	1.44	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00

Appendix B

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Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.29	2.61	2.64	0.01	0.11	—	0.11	0.10	—	0.10	—	633	633	0.03	0.01	—	635
Dust From Material Movement	—	—	—	—	—	—	0.35	0.35	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.48	< 0.005	0.02	—	0.02	0.02	—	0.02	—	105	105	< 0.005	< 0.005	—	105
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	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.72	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	170	170	< 0.005	0.01	0.62	173
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	2.71	0.79	41.6	16.8	0.23	0.67	9.40	10.1	0.45	2.57	3.02	—	34,901	34,901	1.88	5.50	74.8	36,662
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.64	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	158	158	< 0.005	0.01	0.02	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	2.66	0.76	44.0	16.9	0.23	0.67	9.40	10.1	0.45	2.57	3.02	—	34,919	34,919	1.87	5.51	1.94	36,611
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.2	15.2	< 0.005	< 0.005	0.03	15.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.26	0.08	4.14	1.62	0.02	0.06	0.89	0.96	0.04	0.24	0.29	—	3,347	3,347	0.18	0.53	3.10	3,512
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.52	2.52	< 0.005	< 0.005	< 0.005	2.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	0.01	0.75	0.29	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	554	554	0.03	0.09	0.51	581

3.5. Building Construction (2026) - Unmitigated

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

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

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Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.57	5.28	6.95	0.01	0.20	—	0.20	0.19	—	0.19	—	1,285	1,285	0.05	0.01	—	1,290
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.10	0.96	1.27	< 0.005	0.04	—	0.04	0.03	—	0.03	—	213	213	0.01	< 0.005	—	214
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.39	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	91.7	91.7	< 0.005	< 0.005	0.34	93.2
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.0	84.0	< 0.005	0.01	0.22	88.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	85.1	85.1	< 0.005	< 0.005	0.01	86.3
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.0	84.0	< 0.005	0.01	0.01	87.8
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	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	46.0	46.0	< 0.005	< 0.005	0.08	46.6
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.0	45.0	< 0.005	0.01	0.05	47.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	Appendix B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20	—

Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.61	7.61	< 0.005	< 0.005	0.01	7.72
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.46	7.46	< 0.005	< 0.005	0.01	7.80
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.36	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	90.1	90.1	< 0.005	< 0.005	0.31	91.4
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	82.3	82.3	< 0.005	0.01	0.21	86.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	83.6	83.6	< 0.005	< 0.005	0.01	84.7
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	82.4	82.4	< 0.005	0.01	0.01	86.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	60.1	60.1	< 0.005	< 0.005	0.09	61.0
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	58.8	58.8	< 0.005	0.01	0.06	61.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.95	9.95	< 0.005	< 0.005	0.02	10.1
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.74	9.74	< 0.005	< 0.005	0.01	10.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.5	23.5	< 0.005	< 0.005	—	23.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	—	3.90
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.30	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	82.1	82.1	< 0.005	< 0.005	0.01	83.2
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	80.4	80.4	< 0.005	0.01	< 0.005	84.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.82
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.99	1.99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.19	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	—	41.5
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.88
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	0.42	127
Vendor	0.04	0.01	0.58	0.28	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	409	409	0.03	0.07	0.80	430
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.20	3.20	< 0.005	< 0.005	0.01	3.25
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.01	11.8

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	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.54
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	1.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	25.7	25.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.9	21.9	< 0.005	< 0.005	—	22.0

Architectural Coating	4.22	4.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.63	3.63	< 0.005	< 0.005	—	3.65
Architectural Coatings	0.77	0.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.06	18.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.94	0.87	0.68	6.96	0.02	0.01	1.76	1.77	0.01	0.45	0.46	—	1,908	1,908	0.07	0.08	5.50	1,940
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	0.00	0.00	0.00	0.00
Other Non-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	0.00	0.00	0.00	0.00
City Park	0.51	0.47	0.37	3.81	0.01	0.01	0.97	0.98	0.01	0.25	0.25	—	1,051	1,051	0.04	0.04	3.03	1,068
Total	1.45	1.34	1.06	10.8	0.03	0.02	2.73	2.75	0.02	0.69	0.71	—	2,959	2,959	0.11	0.13	8.53	3,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.91	0.84	0.80	6.64	0.02	0.01	1.76	1.77	0.01	0.45	0.46	—	1,801	1,801	0.08	0.09	0.14	1,830
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	0.00	0.00	0.00	0.00

Other Non-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	0.00	0.00	0.00	0.00
City Park	0.49	0.45	0.43	3.63	0.01	0.01	0.97	0.98	0.01	0.25	0.25	—	992	992	0.04	0.05	0.08	1,007
Total	1.40	1.29	1.23	10.3	0.03	0.02	2.73	2.75	0.02	0.69	0.71	—	2,793	2,793	0.13	0.14	0.22	2,837
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.16	0.15	0.13	1.14	< 0.005	< 0.005	0.31	0.31	< 0.005	0.08	0.08	—	293	293	0.01	0.01	0.38	298
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	0.00	0.00	0.00	0.00
Other Non-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	0.00	0.00	0.00	0.00
City Park	0.08	0.08	0.07	0.59	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.04	—	152	152	0.01	0.01	0.20	155
Total	0.24	0.22	0.20	1.73	< 0.005	< 0.005	0.47	0.48	< 0.005	0.12	0.12	—	445	445	0.02	0.02	0.58	453

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	104	104	0.02	< 0.005	—	105
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	104	104	0.02	< 0.005	—	105
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	104	104	0.02	< 0.005	—	105
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	104	104	0.02	< 0.005	—	105
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	17.2	17.2	< 0.005	< 0.005	—	17.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	17.2	17.2	< 0.005	< 0.005	—	17.3

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	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	—	0.00
Other Non-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	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	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	—	0.00
Other Non-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	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	0.00	0.00	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	—	0.00
Other Non-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	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.22	2.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.15	0.02	1.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.55	4.55	< 0.005	< 0.005	—	4.57
Total	2.79	2.79	0.02	1.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.55	4.55	< 0.005	< 0.005	—	4.57

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.22	2.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.64	2.64	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	0.40	0.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.37	0.37	< 0.005	< 0.005	—	0.37
Total	0.50	0.49	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	0.37	0.37	< 0.005	< 0.005	—	0.37

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.04	8.83	10.9	0.21	0.01	—	17.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	2.04	8.83	10.9	0.21	0.01	—	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.04	8.83	10.9	0.21	0.01	—	17.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	2.04	8.83	10.9	0.21	0.01	—	17.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.34	1.46	1.80	0.03	< 0.005	—	2.93
Other Asphalt Surfaces	—	Appendix B	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	0.34	1.46	1.80	0.03	< 0.005	—	2.93

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	10.7	0.00	10.7	1.07	0.00	—	37.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	3.24	0.00	3.24	0.32	0.00	—	11.4
Total	—	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.39	0.00	—	48.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	10.7	0.00	10.7	1.07	0.00	—	37.5

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	3.24	0.00	3.24	0.32	0.00	—	11.4
Total	—	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.39	0.00	—	48.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.77	0.00	1.77	0.18	0.00	—	6.20
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.54	0.00	0.54	0.05	0.00	—	1.88
Total	—	—	—	—	—	—	—	—	—	—	—	2.31	0.00	2.31	0.23	0.00	—	8.08

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73

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City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12

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)

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

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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)

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Site Preparation (Demo + Removal of Trees)	Demolition	1/5/2026	1/20/2026	5.00	12.0	—
Grading	Grading	2/18/2026	4/7/2026	5.00	35.0	—
Building Construction	Building Construction	4/2/2026	1/5/2028	5.00	460	—
Paving	Paving	5/28/2027	6/10/2027	5.00	10.0	—
Architectural Coating	Architectural Coating	6/26/2027	9/17/2027	5.00	60.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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Site Preparation (Demo + Removal of Trees)	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation (Demo + Removal of Trees)	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Site Preparation (Demo + Removal of Trees)	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation (Demo + Removal of Trees) Appendix B	—	—	—	— 42

Site Preparation (Demo + Removal of Trees)	Worker	15.0	11.7	LDA,LDT1,LDT2
Site Preparation (Demo + Removal of Trees)	Vendor	—	8.40	HHDT,MHDT
Site Preparation (Demo + Removal of Trees)	Hauling	6.33	20.0	HHDT
Site Preparation (Demo + Removal of Trees)	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	507	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	10.8	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	3.21	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	14.0	8.40	HHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	2.16	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	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	207,062	69,021	0.00	0.00	21,379

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 (Ton of Debris)	Acres Paved (acres)
Site Preparation (Demo + Removal of Trees)	0.00	0.00	0.00	304	—
Grading	142,000	0.00	105	0.00	—
Paving	0.00	0.00	0.00	0.00	8.51

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	0.33	0%
Other Asphalt Surfaces	7.60	100%
Other Non-Asphalt Surfaces	0.58	0%
City Park	0.00	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	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VM/Weekday	VM/Saturday	VM/Sunday	VM/Year
Single Family Housing	283	286	257	102,132	2,467	2,493	2,235	889,734
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	140	137	153	51,648	1,255	1,230	1,374	462,905

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
207062.32499999998	69,021	0.00	0.00	21,379

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBtu/yr)
Single Family Housing	185,546	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
City Park	0.00	204	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	1,065,326	1,804,880
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
City Park	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	19.9	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
City Park	6.02	—

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
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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
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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8. User Changes to Default Data

Screen	Justification
Land Use	Applicant provided site plans and information. Open Space of 117.1 acres not included in Modeling since it is undisturbed during construction and has no operations
Construction: Construction Phases	Information from Project Description.
Construction: Trips and VMT	Adjusted for paving trips.
Operations: Vehicle Data	Changed Park Weekday Trip Rate to match Traffic Study Reference for the site.
Operations: Hearths	Project will be all-electric. No natural gas will be used.
Operations: Energy Use	Project will be all-electric.

Multi-land Use Screening Tool Overview

This screening tool helps to determine whether the daily construction or operational emissions associated with a proposed land use development project with multiple land use types would exceed BAAQMD's average daily thresholds.

Instructions

Use the drop-down menus to select the land use category and land use type for each type of land use included in the project. Enter the proposed size of each land use based on the default units that are autopopulated in column D.

The tool will estimate whether the project may exceed the construction thresholds, operational thresholds, or both, and whether further analysis is needed before making a significance determination. This tool will not work for projects which have construction-related activities overlapping with operational activities, and vice versa.

Construction and Operation Screening Tool				
Land Use Category	Land Use Type	Unit	Project Land Use Size	Has Overlapping Construction Phases?
Residential	Single Family Housing	DU	30.0	☐
Recreational	City Park	Acres	70.0	☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
Exceeds Construction Threshold?			YES	
Exceeds Operational Threshold?			NO	
BAAQMD's Recommendation			Further Analysis Required	

Developed by

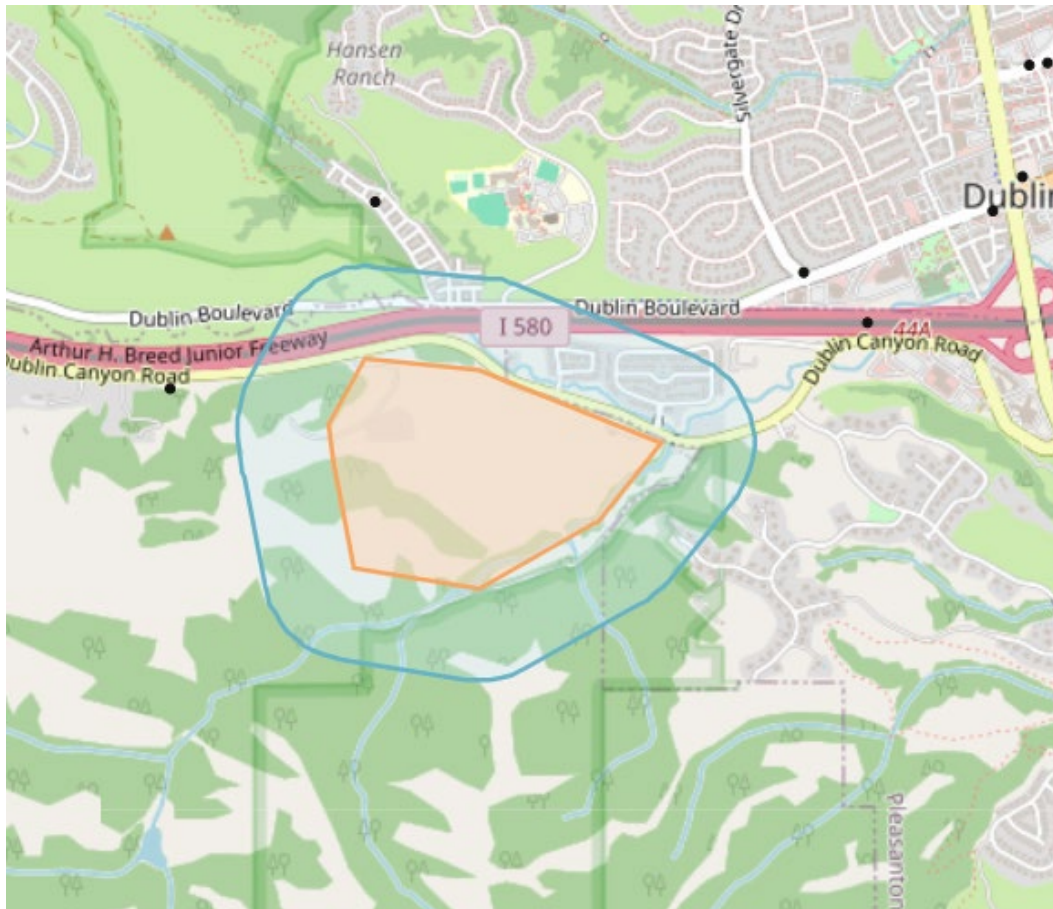


Last updated:

5/6/2022

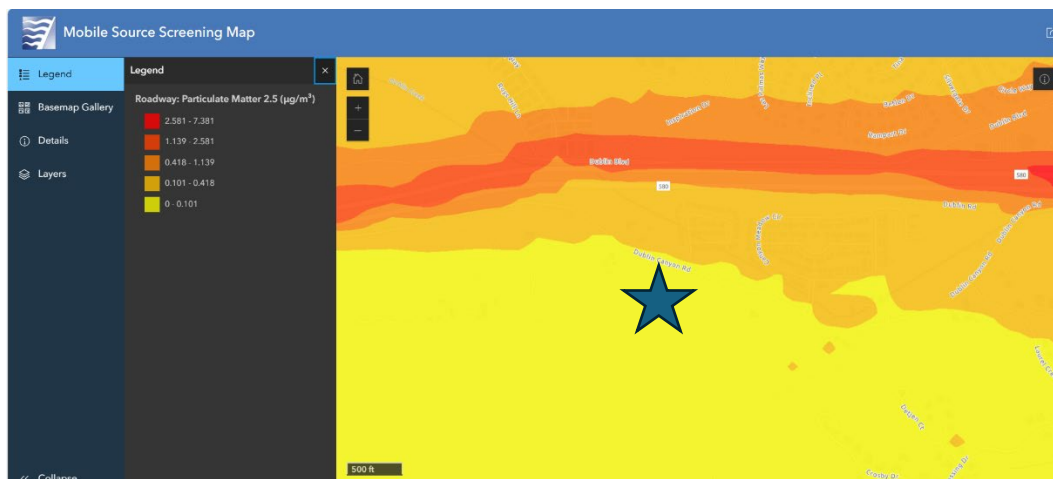
BAAQMD Health Risk Screening

Stationary Sources

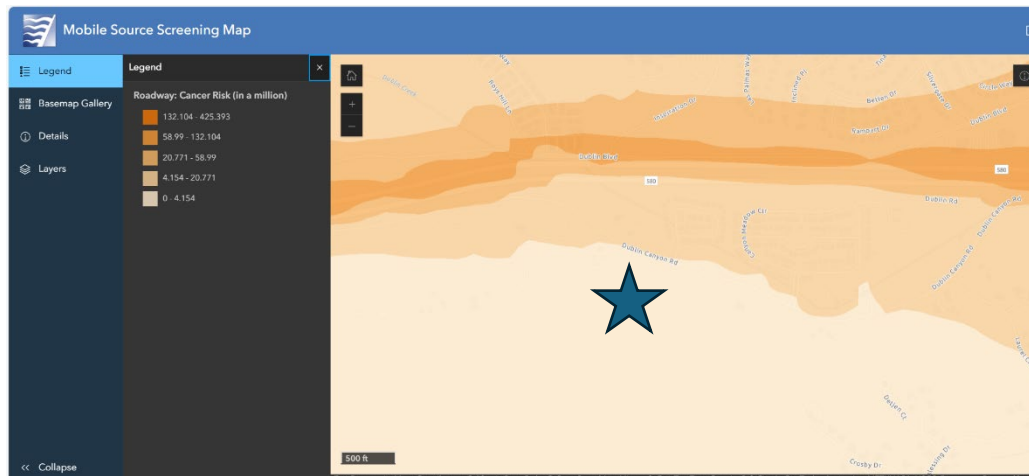


Project Site: ★

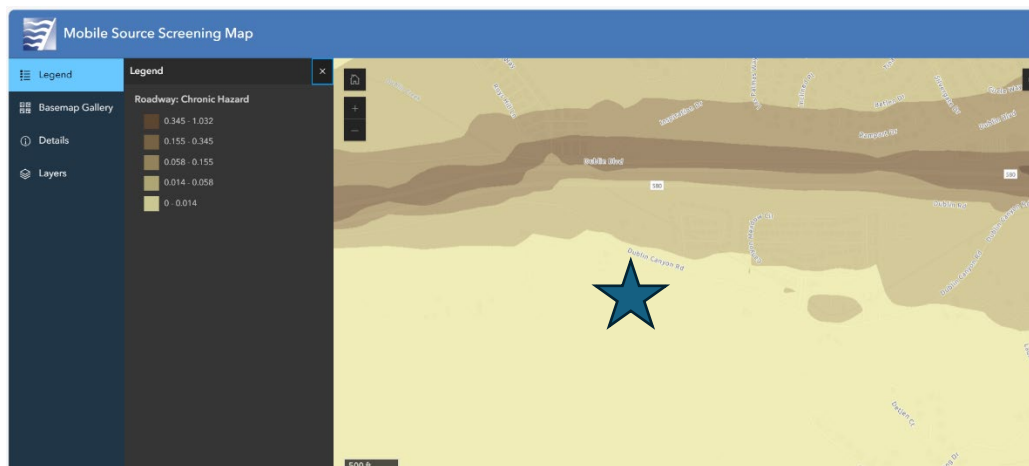
Roadway-PM_{2.5}



Roadway – Cancer Risk



Roadway – Chronic



Hidden Canyon Residences and Preserve
Energy Calculations - Operations Fuel Use from Mobile Sources

Region		Alameda													
OptYear		2028													
Fuel Consumption by Vehicle Category - Annual Usage (gallons) kWh for Electricity															
Units	All Vehicles	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS	
Gasoline	43,861	2	19182	1954	11313	2074	321	719	7389	427	349	118	11	32	
Diesel	6,166	278	37	0	31	486	366		82	93	1959	62	12	84	
Natural Gas	309	255								30	0	6	23		
Electricity	35,200	809	24642	115	1464	645	161		1516	714	12	14	108		

EMFAC Default Mix: County Population															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Alameda County Population	1190607,861	16,733	618,130	46,964	272,765	29,272	7,193	26,689	150,586	2,430	17,141	932	591	1,066	
Vehicle Mix Default	1	1.4%	51.9%	3.9%	22.9%	2.5%	0.6%	2.2%	12.6%	0.2%	1.4%	0.1%	0.0%	0.1%	
Vehicle Types / Mix in CalEEMod															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Single Family Housing	889734	1	1	1	1	1	1	1	1	1	1	1	1	1	
Other Asphalt Surfaces	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
Other Non-Asphalt Surfaces	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
City Park	462905	1	1	1	1	1	1	1	1	1	1	1	1	1	
0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
Vehicle Percentages Modified															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Single Family Housing	889734	1.4%	51.9%	3.9%	22.9%	2.5%	0.6%	2.2%	12.6%	0.2%	1.4%	0.1%	0.0%	0.1%	
Other Asphalt Surfaces	0	1.4%	51.9%	3.9%	22.9%	2.5%	0.6%	2.2%	12.6%	0.2%	1.4%	0.1%	0.0%	0.1%	
Other Non-Asphalt Surfaces	0	1.4%	51.9%	3.9%	22.9%	2.5%	0.6%	2.2%	12.6%	0.2%	1.4%	0.1%	0.0%	0.1%	
City Park	462905	1.4%	51.9%	3.9%	22.9%	2.5%	0.6%	2.2%	12.6%	0.2%	1.4%	0.1%	0.0%	0.1%	
0	0	1.4%	51.9%	3.9%	22.9%	2.5%	0.6%	2.2%	12.6%	0.2%	1.4%	0.1%	0.0%	0.1%	
Null	0	1.4%	51.9%	3.9%	22.9%	2.5%	0.6%	2.2%	12.6%	0.2%	1.4%	0.1%	0.0%	0.1%	

Single Family Housing															
Fuel Consumption by Vehicle Category															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	gal	1	12398	1284	7466	1365	211	470	4819	261	230	78	7	21	
Diesel	gal	1731	25	0	20	451	241		54	81	1239	41	18	56	
Natural Gas	gal	184								20	0	4	15		
Electricity	gal	227	3	78						27					
Plug-in Hybrid (Gasoline)	gal														
Fuel Consumption for EVMT															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	kwhr														
Diesel	kwhr														
Natural Gas	kwhr														
Electricity	kwhr	532	16269	75	963	424	108		967		470	8	9	71	
Plug-in Hybrid (Electricity)	kwhr	2377	24	415					254						

Other Asphalt Surfaces															
Fuel Consumption by Vehicle Category															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	gal														
Diesel	gal														
Natural Gas	gal														
Electricity	gal														
Plug-in Hybrid (Gasoline)	gal														
Fuel Consumption for EVMT															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	kwhr														
Diesel	kwhr														
Natural Gas	kwhr														
Electricity	kwhr														
Plug-in Hybrid (Electricity)	kwhr														

Other Non-Asphalt Surfaces															
Fuel Consumption by Vehicle Category															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	gal														
Diesel	gal														
Natural Gas	gal														
Electricity	gal														
Plug-in Hybrid (Gasoline)	gal														
Fuel Consumption for EVMT															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	kwhr														
Diesel	kwhr														
Natural Gas	kwhr														
Electricity	kwhr														
Plug-in Hybrid (Electricity)	kwhr														

City Park															
Fuel Consumption by Vehicle Category															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	gal	6445	668	3853	710	110	240	2607	146	112	41	4	11		
Diesel	gal	927	13	0	11	234	125		28	32	671	21	20	29	
Natural Gas	gal	85								10	0	2	8		
Electricity	gal														
Plug-in Hybrid (Gasoline)	gal	115	1	19				11							
Fuel Consumption for EVMT															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	kwhr														
Diesel	kwhr														
Natural Gas	kwhr														
Electricity	kwhr	277	8433	39	981	221	55		519		244	4	5	37	
Plug-in Hybrid (Electricity)	kwhr	1237	12	215				132							

Fuel Consumption by Vehicle Category															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	gal														
Diesel	gal	0.257	0.031	0.037	0.037	0.098	0.111	0.024	0.045	0.226	0.203	0.202	0.096	0.108	
Natural Gas	gal	0.107	0.002	0.008	0.008	0.062	0.073		0.008	0.107	0.116	0.139	0.122	0.109	
Electricity	gal														
Plug-in Hybrid (Gasoline)	gal														
Fuel Consumption for EVMT															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	kwhr														
Diesel	kwhr														
Natural Gas	kwhr														
Electricity	kwhr														
Plug-in Hybrid (Electricity)	kwhr														

Null															
Fuel Consumption by Vehicle Category															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	gal														
Diesel	gal														
Natural Gas	gal														
Electricity	gal														
Plug-in Hybrid (Gasoline)	gal														
Fuel Consumption for EVMT															
Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	HHDT	OBUS	SBUS	UBUS		
Gasoline	kw/hr														
Diesel	kw/hr														
Natural Gas	kw/hr														
Electricity	kw/hr														
Plug-in Hybrid (Electricity)	kw/hr														

5.3. Construction Vehicles

5.3.1 Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Days	VTM	Vehicle Mix
Site Preparation (Demo + Removal of Trees)	Worker	15	11.7	12	2106	LDA,LDT1,LDT2
Site Preparation (Demo + Removal of Trees)	Vendor		8.4			HHDT,MHDT
Site Preparation (Demo + Removal of Trees)	Hauling	6	20	12	1520	HHDT
Site Preparation (Demo + Removal of Trees)	Onsite truck					HHDT
Grading	Worker	20	11.7	35	8190	LDA,LDT1,LDT2
Grading	Vendor		8.4			HHDT,MHDT
Grading	Hauling	507	20	35	355000	HHDT
Grading	Onsite truck					HHDT
Building Construction	Worker	11	11.7	460	58126	LDA,LDT1,LDT2
Building Construction	Vendor	3	8.4	460	12392	HHDT,MHDT
Building Construction	Hauling	0	20	460	0	HHDT
Building Construction	Onsite truck					HHDT
Paving	Worker	15	11.7	10	1755	LDA,LDT1,LDT2
Paving	Vendor	14	8.4	10	1176	HHDT
Paving	Hauling	0	20	10	0	HHDT
Paving	Onsite truck					HHDT
Architectural Coating	Worker	2	11.7	60	1516	LDA,LDT1,LDT2
Architectural Coating	Vendor		8.4			HHDT,MHDT
Architectural Coating	Hauling	0	20	60	0	HHDT
Architectural Coating	Onsite truck					HHDT

mpg gal/mile EMFAC Vehicle Category
31.35 0.032 LDA

VTM TOTAL: Vehicle Category

71693 LDA,LDT1,LDT2
12392 HHDT,MHDT

Alameda County Fuel Efficiency (MPG)	2026 Fuel (gallons)
27.33	2623
7.34	1688
8.53	0
6.15	58162
	62,474

GHG EMISSION COMPLIANCE CHECKLIST

The City of Pleasanton has adopted the Climate Action Plan (CAP) 2.0 that establishes 2030 and 2045 greenhouse gas (GHG) emissions targets. The CAP 2.0 includes specific strategies and actions to reduce emissions to 4.11 MTCO₂e per capita by 2030 (70 percent below 1990 levels) and provide substantial progress towards carbon neutrality by 2045. This is consistent with and exceeds California's goal of reducing GHG emissions to 40 percent below 1990 levels (per Senate Bill 32) by 2030 and neutrality (per Executive Order B-55-18) by 2045.

Pursuant to California Environmental Quality Act (CEQA) Guidelines Section 15183.5, a lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if it complies a previously adopted plan. The CAP 2.0 is considered a "qualified" GHG reduction strategy and provides CEQA streamlining for future development that are subject to discretionary review and trigger environmental review pursuant to the CEQA. The purpose of the following GHG Emission Compliance Checklist (herein referred to as "Checklist") is to assist with determining CAP 2.0 consistency for a future development project or plan (herein referred to as the "Project").

The CAP 2.0 includes actions that are both mandatory and voluntary actions, both contained in this Checklist. While mandatory actions that are required, voluntary actions are encouraged. Funding may be available for certain efforts as noted in the Checklist. Projects that are consistent with the CAP 2.0, as determined using this Checklist, may rely on the programmatic CAP 2.0 Initial Study-Negative Declaration GHG emissions analysis for the respective project- and cumulative-level GHG emissions impacts analysis. Inconsistency with any of the applicable mandatory actions in this Checklist would make a Project inconsistent with the overall Checklist. **Projects that are identified as inconsistent with the CAP 2.0 through the use of this Checklist must prepare a project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions compared to the [City's approved GHG thresholds](#). Said projects must still incorporate CAP 2.0 actions in this Checklist to the extent feasible.**

This Checklist may be periodically updated to incorporate new GHG reduction techniques, to comply with later amendments to the CAP, or to reflect changes in other sustainability-focused local, State, or federal laws, regulations, ordinances, and programs.

Checklist Applicability

The Checklist includes a column with the applicable regulation, project type, requirements, Project compliance, and explanation. The **Project Type** column of the Checklist indicates regulation applicability based on project type. Project types include:

- Renovations and additions
- New construction (which includes any new buildings irrespective of existing development on a lot as well as any development on a vacant lot)
- A development plan/planning document

- Covered Projects which includes:
 1. Construction of any City-Sponsored project
 2. Construction of any new commercial/industrial building
 3. Construction of any new residential unit(s) or mixed-use project
 4. Renovation/Additions of any commercial or City-sponsored project that adds 20,000 gross square-feet or greater (but not including a renovation to a project that consists solely of interior improvements to existing buildings)
 5. Additions to any residential project that are 2,000 gross square-feet or greater
 6. Addition to any residential project of any size if it has been less than five years from the date of certificate of occupancy for original structure.
- All projects (which includes all the above listed project types)

It is possible for a project to fit multiple project types and all applicable regulations must be met.

All Project applicants should complete the **Compliance** column for each regulation (i.e., indicate yes, no, or N/A). The **Explanation** column should note the plan sheets where the action is shown in plan set, if applicable. It should also provide an explanation if it will not be achieved.

Submittal Requirements

This Checklist is required to accompany discretionary applications submittals as detailed in submittal requirement handouts. The Checklist is designed to assist the applicant in identifying the minimum CAP 2.0 and other applicable climate-focused requirements specific to a Project. However, it may be necessary to supplement the completed Checklist with supporting materials, calculations, or certifications to demonstrate compliance with CAP 2.0 and other requirements. If the minimum CAP 2.0 and other applicable climate-focused requirements are not already clearly committed to as part of the Project, the mandatory actions will be included as respective project conditions of approval.

Please note, cumulative GHG emissions associated with construction from a land use development project are generally orders of magnitude lower than the operational emissions from a project because construction emissions are generally short in duration compared to the project's overall lifetime, and thus can be assessed qualitatively as part of related CEQA GHG emissions analysis. However, some projects may have long construction periods or entail large quantities of cut and fill that could result in construction related GHG emissions that may be considered significant. Thus, the City retains the discretion on a project-by-project basis to consider whether a project's construction-related GHG emissions could be cumulatively considerable and require more detailed quantitative CEQA GHG emissions analysis and respective mitigation. The City also retains discretion to require additional analysis of GHG emissions on a case-by-case basis and require additional climate mitigations.

Regulation	Project Type	Requirements	Compliance	Required Explanation
Land Use				
Green Building Standards				
CALGreen Code	New Construction and Additions	3. Green Building. Will the Project comply with the latest version of mandatory measures in the CALGreen Code (non-residential and residential)? The CALGreen checklist is required at Building Permit submittal.	Yes ☒ No ☐ N/A ☐	The project will comply with the latest version of mandatory measures in the CALGreen Code for both non-residential and residential buildings. The applicant has indicated adherence to both the current 2022 UBC and the anticipated 2025 UBC, which align with CALGreen requirements
Municipal Code	Covered Projects ¹	4. Green Building. Will the Project comply with the Pleasanton Municipal Code Chapter 17.50 including achieving LEED certification or achieving a “green home” rating with Build It Green as detailed in 17.50?	Yes ☒ No ☐ N/A ☐	The project will comply with the Pleasanton Municipal Code Chapter 17.50. The applicant has indicated adherence to both the current 2022 UBC and the anticipated 2025 UBC, which aligns with the requirements for achieving LEED certification or a “green home” rating with Build It Green.
CAP 2.0 (P11)	New Construction	5. LEED Neighborhood. If the project is neighborhood scale, does it incorporate elements of LEED ND ? Provide the LEED ND checklist indicating which elements of Smart Location & Linkage, Neighborhood Pattern & Design, Green Infrastructure & Building, and Innovation & Design Process are achieved.	Yes ☒ No ☐ N/A ☐	The project will comply with incorporating elements of LEED Neighborhood Development (LEED ND). The applicant has indicated adherence to both the current 2022 UBC and the anticipated 2025 UBC, which includes provisions for sustainable neighborhood development.

¹ Covered Projects include: 1) Construction of any City-Sponsored project; 2) Construction of any new commercial/industrial building; 3) Construction of any new residential unit(s) or mixed use project; 4) Renovation/Additions of any commercial or City-sponsored project that adds 20,000 gross square-feet or greater (but not including a renovation to a project that consists solely of interior improvements to existing buildings); 5) Additions to any residential project that is 2,000 gross square-feet or greater; and 6) Addition to any residential project of any size, if it has been less than five years from the date of certificate of occupancy for original structure.

Energy

Energy Efficiency

CAP 2.0 (S2)	Additions and Renovations	6. Energy Efficiency Upgrades. Will the Project install energy efficient window upgrades, LED lighting, and other efficiency upgrades. Rebates and financing may be available. <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	
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Renewable Energy

CAP 2.0 (P4)	Covered Projects	7. Solar. Will the Project include installation of a solar PV system at time of new construction that meets the power needs of the new building? Indicate the plan sheet(s) where solar information is provided.	Yes ☒ No ☐ N/A ☐	The project will comply with the requirement to include a solar PV system that meets the power needs of the new building at the time of construction. The applicant has indicated adherence to both the current 2022 UBC and the anticipated 2025 UBC, which includes provisions for solar energy systems
CAP 2.0 (P4)	Covered Projects	8. Energy Storage System. When solar is being installed, will the Project include a battery storage back-up system? Indicate the plan sheet(s) where battery storage information is provided.	Yes ☒ No ☐ N/A ☐	The project will comply with the requirement to include a battery storage back-up system when solar is being installed. The applicant has indicated adherence to both the current 2022 UBC and the anticipated 2025 UBC, which includes provisions for energy storage systems
CAP 2.0 (P4)	All Projects	9. Water Heater. If a new water heater is being installed, will the Project include installation of a solar water heater? <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	

Building Electrification

CALGreen Code	New Construction	10. All-Electric. Will the Project be all-electric (i.e., does not include any new gas infrastructure), including lighting, heating, cooking, and water heating? ²	Yes ☒ No ☐ N/A ☐	The project will be all-electric, with no new gas infrastructure included. This encompasses all aspects such as lighting, heating, cooking, and water heating. The applicant has indicated adherence to both the current 2022 UBC and the anticipated 2025 UBC, which support this all-electric approach.
CAP 2.0 (P2)	Additions and Renovations	11. All-Electric Existing Buildings. Will the Project upgrade existing residential and commercial buildings to be all-electric (e.g., air source heat pumps, heat pump water heaters, electric dryers, and induction stoves)? Rebates may be available. <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	
CAP 2.0 (S1)	All Projects	12. Refrigerant Management. If new heating, ventilation, and air conditioning (HVAC) systems are being installed, does the project incorporate the lowest global warming potential (GWP) refrigerants for HVAC systems? <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	

² The Building Code includes limited exceptions including to commercial kitchens with a business-related need to cook with combustion equipment; industrial processes for labs, research, or educational related needs; and/or if the applicant establishes that there is not an all-electric prescriptive compliance pathway for the building under the California Building Energy Efficiency Standards and that the building is not able to achieve the performance compliance standard applicable to the building under the Energy Efficiency Standards.

Vehicle Electrification

CALGreen Code	New Construction	13. EV Charging. Will the Project install electric vehicle charging infrastructure as follows: • <u>SFR</u>: Two Level 2 EV Ready³ spaces per unit • <u>ADU</u>: One Level 1 EV Ready space per unit (where parking is provided). • <u>Multi-family</u>: 15-percent of dwelling units shall provide one Level 2 EVCS⁴ space, and 85-percent of dwelling units shall provide one Level 2 EV Ready⁵. • <u>Offices</u>: 20-percent of required parking spaces shall be Level 2 EVCS, and 30-percent shall be Level 2 EV Capable⁶. • <u>Hotels</u>: 5-percent of required parking spaces shall be Level 2 EVCS, 25-percent shall be Level 2 EV Ready, and 10-percent shall be Level 2 Capable. • <u>All other non-residential</u>: 10-percent of parking spaces shall be Level 2 EVCS, and 10-percent shall be Level 2 EV Capable. Indicate the plan sheet(s) where EV Charging information is provided.	Yes ☒ No ☐ N/A ☐	The project will install electric vehicle charging infrastructure in accordance with the outlined requirements. The applicant has indicated adherence to both the current 2022 UBC and the anticipated 2025 UBC, which support these provisions for EV infrastructure.
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³ EV Ready includes: Installation of raceway, adequate panel capacity, dedicated branch circuit, circuit breaker, and electrical components (e.g., 240-volt outlet). Level 2 must be capable of 8.3 kVa (208/240 volt, 40 amp), Low Level 2 must be capable of 4.1 kVa (208/240 volt, 20 amp), and Level 1 must a minimum of 2.2 kVa (110/120 volt, 20-amp).

⁴ EVCS includes: Installation of raceway, adequate panel capacity, dedicated branch circuit, circuit breaker, and electrical components (e.g., 240-volt outlet). and vehicle supply equipment.

⁵ Five Level 2 and/or Level 1 spaces can be substituted for each direct current fast charging (DCFC) station provided (i.e., a DCFC is a minimum of 48 kVA- 480 volt, 100-amp).

⁶ EV Capable includes: Conduit installed and adequate panel capacity installed to accommodate future installation of a dedicated circuit and charging station.

Transportation

Alternative Transportation

CAP 2.0 (P10) and Municipal Code (17.26)	New Construction (Commercial and Multifamily)	14. Transit Connections. Will the project provide transit incentives as follows: <u>Multi-family</u>: Comply with Municipal Code Chapter 17.26. <i>Mandatory</i> <u>Non-residential</u>: If not proximate to transit stops, connect to transit via shuttle service, bike share, or other provided amenity to increase transit ridership. <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	Not applicable. The project consists of single-family detached residential units, not commercial or multi-family.
Municipal Code (18.88)	All Projects (Commercial and Multi- family)	15. Alternative Vehicle Parking. Will the Project comply with Pleasanton Municipal Code Chapter 18.88 related to parking spaces designed to accommodate carpool, vanpool, and car-share vehicles? Indicate the plan sheet(s) where alternative vehicle parking information is provided.	Yes ☐ No ☐ N/A ☒	Not applicable. The project consists of single-family detached residential units, not commercial or multi-family.

Active Transportation

CAP 2.0 (P8)	New Construction (Commercial and Multi- family)	18. Bicycle Amenities. Will the Project include bicycle parking and/or protected bicycle storage as follows: <u>Multi-family</u>: One short term bicycle parking space for every 3 units (minimum of two spaces); and one long-term space (e.g., lockers, shared/locked cages, etc.) for every 3 units. <u>Non-residential</u>: Two short term bicycle parking spaces (e.g., bicycle racks) for each 9,000 square-feet of gross floor area (minimum of two spaces); and one long-term bicycle parking space (i.e., bicycle locker, enclosed storage, or racks within building) for each 9,000 square-feet of gross floor area	Yes ☐ No ☐ N/A ☒	Not applicable. The project consists of single-family detached residential units, not commercial or multi-family.
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		Additionally, for <u>offices</u>- will the Project include showers and changing areas as follows: • One shower facility for projects between 10,000 and 24,999 square-feet, two shower facilities for projects between 25,000 and 124,999, and four shower facilities for projects over 125,000 square feet. • One dressing area per shower facility Indicate the plan sheet(s) where bicycle amenities information is provided.		
Waste				
<i>Materials Recycling & Composting</i>				
Municipal Code (9.21)	New Construction and Additions/ Alterations ⁷	19. Landfill Diversion. Will the Project comply with Municipal Code Chapter 9.21 and achieve recycling or reuse of at least 90 percent of Portland cement concrete and asphalt concrete and at least 75 percent of the remaining construction and demolition debris, or the percentage established by the compliance official for a project pursuant to an exemption, of the total construction and demolition debris?	Yes ☐ No ☐ N/A ☐	
Pleasanton CAP 2.0 (Strategy MC-1) and Municipal Code (9.20)	New Construction	20. Waste Requirements. Will the Project provide adequate recycling, compost, and landfill containers to meet SB 1383 and comply with Municipal Code Chapter 9.20? Indicate the plan sheet(s) where waste container information is provided.	Yes ☒ No ☐ N/A ☐	The Project Description states that the Pleasanton Garbage Services serves residential and commercial locations in the City. Service is provided on a weekly basis. Each residential household would be provided with a garbage cart and recycling cart.

⁷ All residential additions that create an increase in conditioned area, non-residential additions greater than 1,000 square-feet, demolition with a total value of \$25,000 or greater, and/or non-residential alternations/renovations with a total value of \$125,000 or greater.

Green Materials

CAP 2.0 (S6)	All Projects	21. Embodied Carbon. Will the Project include low carbon building materials (e.g., recycled concrete and metals) as part of construction? <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	
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Water

Water Use Efficiency

CAP 2.0 (P15)	All Projects	22. Water Conservation. Will the Project incorporate water-efficiency measures, including efficient water fixtures and climate adapted plantings? Rebates may be available. <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	
Municipal Code (17.14) and State WELO	All Projects	23. Water Efficient Landscape. If the project includes new landscape areas of greater than 500 square-feet or rehabilitated landscape areas of greater than 2,500 square-feet, will the Project comply with Municipal Code Chapter 17.14 and implement the City's Water Efficient Landscape Ordinance (WELO)?	Yes ☒ No ☐ N/A ☐	The landscape plan indicates that the irrigation design for the site shall comply with the State of California model water efficient landscape ordinance (Title 23 - Division 2 - Chapter .2.7) and the city of pleasanton water effecient landscape standards.

Water Recycling

CAP 2.0 (S8)	All Projects	24. Green Stormwater Infrastructure. Will the Project incorporate green roofs, rainwater catchment, permeable pavement, bioretention areas, and/or other green stormwater infrastructure? <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	
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SF Bay Region Requirements	All Projects	25. Stormwater Management. For projects creating and/or replacing more than 2,500 square-feet of impervious surface, will the Project incorporate on-site stormwater management consistent with the NPDES permit and City stormwater management requirements?	Yes ☒ No ☐ N/A ☐	The proposed project includes bio-retention areas for on-site stormwater management throughout the site, including near the proposed main entrance from Dublin Canyon Road, and along internal private Street A. Throughout the project site, proposed storm drains would connect to the bio-retention areas for pre-treatment before connecting to the City's existing storm drainage system off-site
Overall Sustainability				
Urban Forest				
CAP 2.0 (P13)	All Projects	26. Tree Planting. If planting is proposed, will the Project include climate-adapted plantings? If trees are removed, will the Project include replacement climate-adapted trees? Indicate the plan sheet(s) where tree information is provided.	Yes ☒ No ☐ N/A ☐	As described in the project description, a total of 232 trees would be planted, consisting predominantly of red maple (<i>Acer rubrum</i>), Marina strawberry (<i>Arbutus unedo</i>), white ash (<i>Fraxinus americana</i>), London plane tree (<i>Platanus acerifolia</i>), and coast live oak (<i>Quercus agrifolia</i>). These tree species would require low to medium amounts of water
Wildfire Prevention				
CAP 2.0 (S9)	All Projects	27. Wildfire Prevention and Preparation. Will the Project incorporate a wildfire-defensible space , fire hardening retrofits , and commit to fire prevention through site maintenance (e.g., regularly cleaning out rain gutters) and preparation? <i>Voluntary</i>	Yes ☐ No ☐ N/A ☒	

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