ATTACHMENTS

Air Quality Study for 1701 W. 120th ST.

September 07, 2023

Prepared for:

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1.0 INTRODUCTION

This report presents an assessment of potential air quality and greenhouse gas (GHG) impacts associated with the proposed development of a 0.88-acre vacant parcel located off of W. 120th Street in Los Angeles (the "project"). The proposed project requests a Tentative Tract Map for Multi-family Residential with associated parking. The project site is located at W. 120th Street and Harvard Boulevard. The property is currently zoned Specific Plan (SP) with a General plan land use of Mixed Use. There is existing multi-family use to the west, residential uses to the south, Residential use to the east, and vacant land to the north.

AREA DISTURBED	CONSTRUCTION SUMMARY	TOTAL NEW BUILDING AREA
0.88	Development of multi-family housing	Not Available

GHG impacts will be attributable to emissions associated with construction and operation emissions including traffic and energy use. This report presents an evaluation of existing conditions at the subject property, thresholds of significance, and potential air quality and GHG impacts associated with the construction and operation of the Project.

2.0 EXISTING CONDITIONS

2.1 CURRENT DEVELOPMENT

The subject property is currently undeveloped land. The property is currently zoned Specific Plan (SP) with a General Plan land use of Mixed-Use. There is existing multi-family use to the west, residential uses to the south, residential use to the east, and vacant land to the north. The proposed project would have a positive economic impact on the growth of housing in the unincorporated areas of Los Angeles County, which meets the State and County's Housing goals. In addition, the proposed project would create new jobs, and reduce reliance on personal vehicles due to its proximity to major transit corridors, which will reduce overall greenhouse gas emissions in the area. This project will meet the State of California and the County of Los Angeles's Climate Action Plan goals and policies.

Figure 1: Project Site Aerial

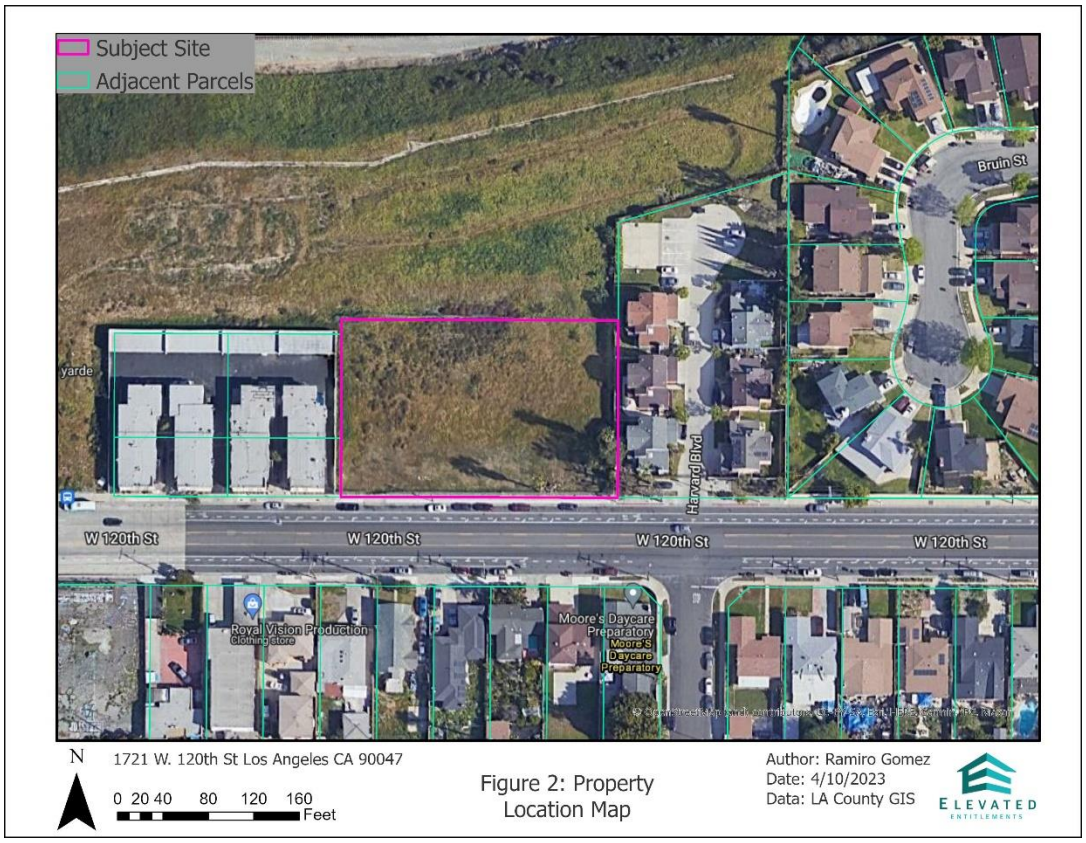


Figure 2: Viewing the Property from the south oriented to the north.

2.2 REGULATORY SETTING

The United States Environmental Protection Agency (EPA) defines air quality as ambient air concentrations of specific pollutants that have been shown to be of concern with respect to the health and welfare of the general public. The EPA is responsible for enforcing the Federal Clean Air Act (CAA) of 1970 and its 1977 and 1990 Amendments. The CAA required the EPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on public health and welfare are anticipated.

In response, the EPA established both primary and secondary standards for several pollutants (called "criteria" pollutants). Primary standards are designed to protect human health with an adequate margin of safety. Secondary standards are designed to protect property and public welfare from air pollutants in the atmosphere.

The Federal CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. More stringent California Ambient Air Quality Standards (CAAQS) have been adapted by the California Air Resources Board (ARB) for the six criteria pollutants through the California Clean Air Act of 1988 (CCAA). The CCAA also established California Ambient Air Quality Standards (CAAQS) for additional pollutants, including sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles (see Table 1 for NAAQS and CAAQS.)

Areas that do not meet the NAAQS or the CAAQS for a particular pollutant are considered to be "Nonattainment Areas" for that pollutant. In September 1997, the EPA promulgated 8-hour O3 and 24-hour and annual PM2.5 national standards. As a result, this action has initiated a new planning process to monitor and evaluate emission control measures for these pollutants.

Under CEQA, the South Coast Air Quality Management District (the "District") is an expert commenting agency on air quality and related matters within its jurisdiction or impacting on its jurisdiction. Under the Federal Clean Air Act, the District has adopted federal attainment plans for ozone and PM10. The District has dedicated assets to reviewing projects to ensure that they will not: (1) cause or contribute to any new violation of any air quality standard; (2) increase the frequency or severity of any existing violation of any air quality standard; or (3) delay timely attainment of any air quality standard or any required interim emission reductions or other milestones of any federal attainment plan. These Guidelines are intended to assist persons preparing environmental analysis or review documents for any project within the jurisdiction of the District by providing background information and guidance on the preferred analysis approach.

The California ARB is the state regulatory agency with the authority to enforce regulations to both achieve and maintain the NAAQS and CAAQS. The ARB is responsible for the development, adoption, and enforcement of the state's motor vehicle emissions program, as well as the adoption of the CAAQS. The ARB also reviews the operations and programs of the local air districts and requires each air district with jurisdiction over a nonattainment area to develop its own strategy for achieving the NAAQS and CAAQS.

The local air district has the primary responsibility for the development and implementation of rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, development of air quality management plans, and adoption and enforcement of air pollution regulations. The South Coast Air Quality Management District (SCAQMD) is the local agency responsible for the administration and enforcement of air quality regulations for the South Coast Air Basin.

The SCAQMD and the Southern California Association of Governments (SCAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SCAB. The most recently adopted air quality plan in the SCAB is the 2022 Air Quality Management Plan (AQMP), which was adopted by the Board in 2022.

Table 1 presents a summary of the ambient air quality standards adopted by the federal and California Clean Air Acts.

Table 1: Ambient Air Quality Standards

Pollutant	Average Time	California Standards Concentration	California Standards Methods	National Standards Primary	National Standards Secondary	National Standards Method
Ozone (O3)	1 hour	0.09 ppm (180 µg/m3)	Ultraviolet Photometry			Ultraviolet Photometry
	8 hour	0.070 ppm (137 µg/m3)		0.075 ppm (147 µg/m3)	0.075 ppm (147 µg/m3)	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 µg/m3)	—	Non-Dispersive Infrared Spectroscopy (NDIR)
	8 Hour	9.0 ppm (10 mg/m3)		9 ppm (10 µg/m3)	—	
Nitrogen Dioxide (NO2)	Annual	0.030 ppm (56 µg/m3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m3)		Gas Phase Chemiluminescence
	1 hour	0.18 ppm (338 µg/m3)		0.100 ppm (188 µg/m3)		
Sulfur Dioxide (SO2)	24 hours	0.04 ppm (105 µg/m3)	Ultraviolet Fluorescence			Pararosaniline
	3 hours	--			0.5 ppm (1300 µg/m3)	
	1 hour	0.25 ppm (655 µg/m3)		0.075 ppm (196 µg/m3)		
Respirable Particulate Matter (PM10)	24 hours	50 µg/m3	Gravimetric or Beta Attenuation	150 µg/m3	150 µg/m3	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m3				
Fine Particulate Matter (PM2.5)	Annual Arithmetic Mean	12 µg/m3	Gravimetric or Beta Attenuation	12.0 µg/m3	15 µg/m3	Inertial Separation and Gravimetric Analysis
	24 hours			35 µg/m3		
Sulfates	24 hours	25 µg/m3	Ion Chromatography	No National Standards		
Lead	30-day Average	1.5 µg/m3	Atomic Absorption			Atomic Absorption
	Calendar Quarter			1.5 µg/m3	1.5 µg/m3	
	3-Month Rolling			0.15 µg/m3	0.15 µg/m3	
Hydrogen Sulfide	1 hour	0.03 ppm (42 µg/m3)	Ultraviolet Fluorescence	No National Standards		
Vinyl Chloride	24 hours	0.010 ppm (26 µg/m3)	Gas Chromatography	No National Standards		

3.0 THRESHOLDS OF SIGNIFICANCE

As defined by the SCAQMD, any project is significant if it triggers or exceeds the most appropriate evaluation criteria. The District will clarify upon request which threshold is most appropriate for a given project; in general, the emissions comparison (criteria number 1) is sufficient: 1. Generates total emissions (direct and indirect) in excess of the thresholds given in Table 4; 2. Generates a violation of any ambient air quality standard when added to the local background; 3. Does not conform with the applicable attainment or maintenance plan(s) 1; 4. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1. A significant project must incorporate mitigation sufficiently to reduce its impact to a level that is not significant. A project that cannot be mitigated to a level that is not significant must incorporate all feasible mitigation. Note that the emission thresholds are given as a daily so that multi-phased projects (such as project with a construction phase and a separate operational phase) with phases shorter than one year can be compared to the daily value.

The project-level numerical thresholds are summarized in Table 2.

Table 2: SCAQMD Significant Thresholds

POLLUTANT	DAILY CONSTRUCTION	DAILY OPERATION
NOx	100 lbs./day	55 lbs./day
ROG (VOC)	75 lbs./day	55 lbs./day
PM10	150 lbs./day	150 lbs./day
PM2.5	55 lbs./day	55 lbs./day
SOx	150 lbs./day	150 lbs./day
CO	550 lbs./day	550 lbs./day
Lead	3 lbs./day	3 lbs./day

Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	*State*	*Federal*
Ozone – 1-hour	Nonattainment	Extreme Nonattainment
Ozone – 8-hour	No State Standard	Severe 17 Nonattainment
PM_{10}	Nonattainment	Serious Nonattainment
$PM_{2.5}$	Not Established	Not Established (due 12/04)
CO	Attainment (except Los Angeles County)	Attainment (date finding in 2003 AQMP for the SCAB)
NO_2	Attainment	Attainment/Maintenance
SO_2	Attainment	Attainment
Lead	Attainment	Attainment
All others	Attainment/Unclassified	Attainment/Unclassified

Source: LSA (ARB 2004).

4.0 IMPACTS

The proposed tentative tract map may cause temporary air quality impacts from construction, but not during project operations. Temporary construction impacts include emissions associated with site grading/preparation and utility installation. Operational impacts will cause no impacts due to negligible property maintenance requirements and minimal heavy equipment and onsite renewable energy generation (roof mounted solar) offsetting any operations admissions.

4.1 CONSTRUCTION

Emissions of pollutants such as fugitive dust that are generated during construction are generally highest near the construction site. Emissions from the construction phase of the project were estimated through the use of the CalEEMod Model (ENVIRON 2022.1.1.17). It was assumed that heavy construction equipment would be operating at the site for eight hours per day, five days per week during project construction. In addition, it was assumed that, in accordance with the requirements of the SCAQMD Rule 403, fugitive dust controls would be utilized during construction, including watering of active sites two times daily.

Table 3 provides a summary of the emission estimates for construction of all proposed site improvements. These projected emissions assume standard measures are implemented to reduce emissions, as calculated with the CalEEMod Model, and are compared to the regional thresholds. Refer to Appendix A for detailed model output files.

Table 3 includes projected emissions for all steps of construction, averaged over the Project's projected construction duration. These steps include Site Preparation and Building Construction (Including Installation of Electrical Vehicle Charging Stations). Note that projected emissions for all pollutants during construction are below the SCAQMD's Air Quality Significance Thresholds.

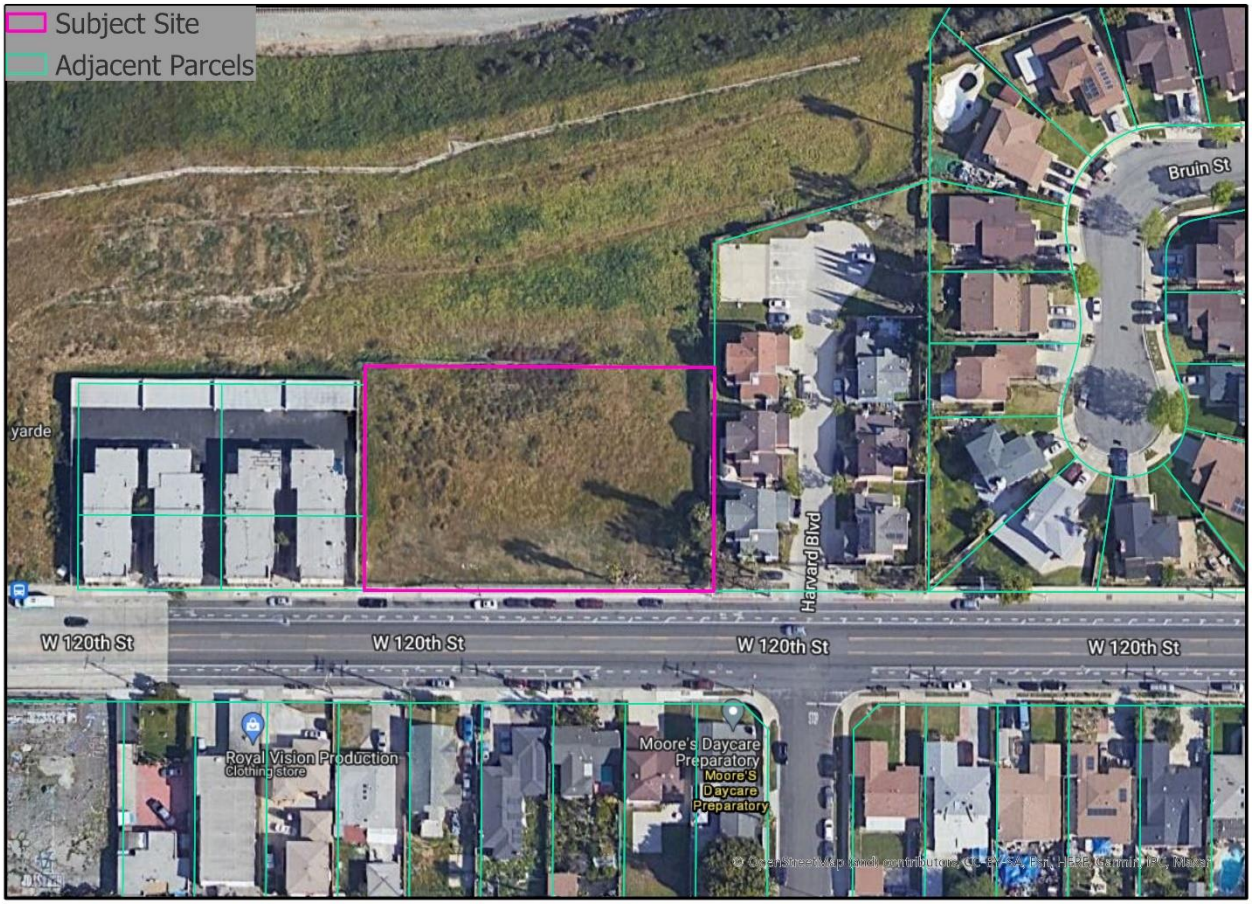
During Construction diesel-fired equipment will be operated and will result in the release of diesel particulate matter which is a listed carcinogen and toxic air contaminant in the State of California. Project construction would not result in the emission of any odor compounds that would cause a nuisance or significant impact on nearby receptors. The impacts associated with project construction are therefore not considered significant with regard to odors.

Table 3:

Estimated Annual Construction Emissions (Annual, Unmitigated) LBs/Day

Emission Source	ROG	NOx	CO	SOx	PM10	PM2.5	C02e
Regional Significance Criteria	75	100	550	150	150	55	N/A
Project Construction Emissions	0.56	5.60	7.02	.01	0.27	0.24	1,323
Significant?	*No*	*No*	*No*	*No*	*No*	*No*	*No*

Figure 3: Site Area



4.2 OPERATION

The proposed project would operate twenty-four hours a day, seven days a week. The proposed project will include the construction of multi-family dwellings. Day-to-day operations would include the use of electricity, natural gas, water, and sewers. Traffic in and out of the community would also be a part of the day-to-day events. However, given the project is within a major transit corridor the use of personal vehicles will be less than normal and public ridership will be encouraged.

4.3 PROJECT'S CONTRIBUTION TO CRITERIA POLLUTANTS

The Air Basin has been designated by EPA for the national standards as a non-attainment area for PM-2.5, PM10, and ozone. It should be noted that VOC and NOx are O3 precursors, as such they have been considered as non-attainment pollutants. According to the California Air Resources Board, the total emissions in the South Coast Air Basin in 2017 were 193,304 tons of VOC, 133,919 tons of NOx, 690,982 tons of CO, 5,621 tons of SOx, 65,189 tons of PM10 and 26,353 tons of PM2.5. These numbers were calculated by multiplying the recorded daily figures by 365 for comparison with the Project's annual emissions. The project contribution to each criteria pollutant in the South Coast Air Basin is shown below.

Table 4:
Project's Contribution to Criteria Pollutants in the South Coast Air Basin

Emissions Source	Annual Emissions (LBs/DAY)						
	VOC	NOx	CO	SOx[3]	PM10	PM2.5	CO2
Construction Emissions[1]	0.07	0.66	0.67	<0.005	0.20	0.11	1,323
Operation Emissions[1]	0.83	0.03	0.27	<0.005	0.05	.02	89.5
Total Project Emissions[1]	0.90	0.69	0.94	0.010	0.25	0.13	1,412.5
Total Emissions in Air Basin[2]	1,058,000	733,800	3,786,200	30,800	357,200	144,400	N/A
Project's Percent of Air Emissions	<0.001%	<0.001%	<0.001%	<0.001%	<0.001%	<0.001%	N/A

Notes:
1. Total Daily Average Emissions for construction and first-year operation
2. Source: California Air Resources Board, 2017. LBs Per DAY, 2017.
3. SO2 results from CalEEMod are reflected under SOx.

5.0 CONCLUSIONS

The Air Quality and GHG Analysis for the proposed Tentative Tract Map Project in Los Angeles County, California evaluated emissions associated with both the construction and operation of the proposed project. Emissions associated with construction and operation were compared with significance thresholds developed by the SCAQMD, which provide a conservative means of evaluating whether project emissions would cause a significant impact on the ambient air quality or whether further evaluation is warranted. Emissions associated with the construction and operation of the project are below the significance thresholds for all criteria pollutants as well as cumulative GHG emissions. Thus, the emissions associated with the construction and operation of the Project would not result in a significant impact under the California Environmental Quality Act. In addition, based on the results of the CalEEMod Model, the Project would generate 89.5 Lbs of CO2e emissions Daily. There are no thresholds for CO2e in the South Coast Air Basin. Therefore, the impacts are less than significant.

6.0 CEQA ENVIRONMENTAL CHECKLIST

AIR QUALITY

Issues	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
AIR QUALITY: Would the Project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
e) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

The Project falls under the jurisdiction of the South Coast Air Quality Management District (SCAQMD) and is located in the South Coast Air Basin (SCAB). The Air Quality Management Plan (AQMP) aims to obtain attainment status for key monitored air pollution standards, based on current and future air pollution emissions resulting from employment and residential growth projections. To develop the AQMP, various agencies' General Plans and other projections for population and employment growth are taken into consideration. During project construction, emissions with regional effects are calculated using the California Emissions Estimator Model (CalEEMod); Version 2022.1.1.16, and would not exceed criteria pollutant thresholds established by the SCAQMD.

The Project is expected to have a minimal impact on the air quality of the area and would produce relatively few emissions during construction (one year period) and negligible emissions during operation. Therefore, impacts are considered less than significant. Table 5 below presents the regional air quality significance thresholds.

Table 5
Project's Contribution to Criteria Pollutants in the South Coast Air Basin

Emissions Source	Annual Emissions (LBs/DAY)						
	VOC	NOx	CO	SOx[3]	PM10	PM2.5	CO2
Construction Emissions[1]	0.07	0.66	0.67	<0.005	0.20	0.11	1,323
Operation Emissions[1]	0.83	0.03	0.27	<0.005	0.05	.02	89.5
Total Project Emissions[1]	0.90	0.69	0.94	0.010	0.25	0.13	1,412.5
Total Emissions in Air Basin[2]	1,058,000	733,800	3,786,200	30,800	357,200	144,400	N/A
Project's Percent of Air Emissions	<0.001%	<0.001%	<0.001%	<0.001%	<0.001%	<0.001%	N/A

Notes:
2. Total Daily Average Emissions for construction and first year operation
2. Source: California Air Resources Board, 2017. LBs Per DAY, 2017.
3. SO2 results from CalEEMod are reflected under SOx.

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impact. As shown in Table 5 emissions from construction of the Project would be below SCAQMD air quality significance thresholds for all pollutants. Based on this, the Project would not be expected to conflict with or obstruct the implementation of the AQMP. There would be no expected conflict or obstruction of any air quality plans. Most of the polluting emissions would be produced during the construction period. These emissions would be in the form of exhaust and dust. The amount of exhaust associated with the Project would be negligible compared to the yearly exhaust levels of Los Angeles County.

The Project is located within the SCAQMD which is non-attainment for ozone and PM10. The Project is expected to generate minor particulate and ozone precursors during the approximately one-year construction period. Best Management Practices for the Project shall include the use of water trucks to reduce particulate emissions during construction. In addition, a Dust Control Plan shall be developed and submitted to the County and SCAQMD for review and approval prior to the issuance of a grading permit and/or land disturbance.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Less Than Significant Impact. Emissions from operations of the Project would be below the levels produced during construction and in effect, the air quality significance thresholds for all pollutants. Specifically, the Project would not exceed SCAQMD significance thresholds for ozone precursors pollutants, VOC and NOx, as well as PM_{10} and $PM_{2.5}$ for which the SCAB is in non-attainment. Since the Project's emissions are below the SCAQMD's project-specific thresholds, the Project emissions would not be cumulatively considerable, and impacts would be less than significant.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. Sensitive receptors are defined as populations that are more susceptible to the effects of pollution than the population at large. The SCAQMD identifies the following as sensitive receptors: residences, schools, daycare centers, playgrounds, and medical facilities. The Project is bordered by a few residential homes to the East and West. All pollutant levels for the Project are below the significant thresholds as defined by SCAQMD and CalEEMod. The only potential impacts to the surrounding sensitive receptors would be dust pollutants during the construction phase. A Dust Control Plan shall be developed and submitted to the County and SCAQMD for review and approval prior to issuance of a grading permit and/or land disturbance to reduce any potential impacts to less than significant. Overall, the Project would not expose any sensitive receptors to substantial pollutant concentrations and a less than significant impact would occur.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. During construction, diesel equipment operating at the site may generate some nuisance odors; however, due to the distance of sensitive receptors to the project site and the temporary nature of construction, odors associated with project construction would not be significant.

Land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations. These land uses are not proposed for this project. Overall, odor impacts would be less than significant.

	Issues	*Potentially Significant Impact*	*Less than Significant with Mitigation Incorporated*	*Less than Significant*	*No Impact*
VIII.	**GREENHOUSE GAS EMISSIONS –** Would the project:				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b)	Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☒

Elevated Entitlements quantified greenhouse gas (GHG) emissions resulting from the construction and operation of the Project using default figures provided by CalEEmod from the CalEEMod California Emissions Estimator Model. This software was used as the GHG quantification tool for this Project. The total Project related average annual GHG emissions were determined to not exceed 10,000 metric tons carbon dioxide equivalent per year (MTCO2e/yr). Based on the results of the CalEEMod Model, the project would generate an average of 357 lbs/day of CO2e emissions from construction. The South Coast Air Quality Management District (AQMD) does not have quantifiable GHG emissions thresholds for the construction or operation of residential properties, therefore the impacts would be less than significant. As shown in **Table 2** below the temporary construction activities for the Project are shown. These Project GHG emissions do not supersede any regional emissions thresholds for residential properties.

Table 2: Greenhouse Gas (CO2) lbs/day	
Project Construction Emissions	357
SCAQMD Threshold[1]	Threshold only exists for industrial facilities
Exceeds Threshold	**No**
[1]Source: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25	

a) **Less than Significant Impact.** Construction of the Project would generate GHG emissions and maximum daily emissions are shown in Table 2 above. The project would not generate GHG emissions that would have a significant impact on the environment and impacts would be less than significant.

Construction Activities: During construction of the Project, GHGs would be emitted through the operation of construction equipment and from worker and vendor vehicles, each of which typically uses fossil-based fuels to operate. The combustion of fossil- based fuels creates GHGs (e.g., CO2, CH4, and N2O). Furthermore, Methane (CH4) is emitted during the fueling of heavy equipment.

Gas, Electricity, and Water Use: Natural gas use results in the emission of two GHGs: CH4 (the major component of natural gas) and CO2 (from the combustion of natural gas). Electricity use can result in GHG production if the electricity is generated by combustion of fossil fuel. California's water conveyance system is energy intensive. Water-related electricity use is 48 terawatt hours per year and accounts for nearly 20 percent of California's total electricity consumption. Gas, electricity, and water use would be minimal during temporary construction and operation of the residential property.

Solid Waste Disposal: Solid waste generated by the Project would contribute to minimal GHG emissions during temporary construction of the residential property only. During operation, the property would require the disposal of solid waste.

Motor Vehicle Use: During construction and operation, transportation associated with the proposed Project would result in GHG emissions from the combustion of fossil fuels in daily automobile trips, electricity, and gas use.

Operational Activities: Mobile source emissions of GHGs would include electricity, gas use, and Project-generated vehicle trips associated with residential communities and visitors to the property. As proposed the Project would be a residential property, with electricity, solid waste disposal and vehicle trips.

b) **No Impact.** A project's incremental contribution to a cumulative Greenhouse Gas (GHG) effect is not cumulatively considerable if the Project complies with the requirements in a previously adopted plan or mitigation program under specified circumstances. The South Coast Air Quality Management District (AQMD) does not have GHG thresholds for residential property construction or operation. With this in mind, there would be no impact associated with the GHG emissions for the development of a proposed residential property.

Therefore, no significant adverse impacts are identified or anticipated, and no mitigation measures are required.

7.0 REFERENCES

https://www.anaheim.net/DocumentCenter/View/2948/52-Air-Quality-

California Air Pollution Control Officers Association. 2008. CEQA and Climate Change – Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act. January.

California Air Resources Board. Emissions by Air Basin | California Air Resources Board. (n.d.). https://ww2.arb.ca.gov/applications/emissions-air-basin

California Air Resources Board. 2023. EMFAC2014 Emissions Model.

California Air Resources Board. 2008. Climate Change Scoping Plan. November.

ENVIRON. 2020. CalEEMod Model, Version 2022.1.1.16

U.S. EPA. 2006. The U.S. Inventory of Greenhouse Gas Emissions and Sinks: Fast Facts.www.epa.gov/climatechange/emissions/downloads06/06FastFact

120th Street Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	120th Street
Construction Start Date	8/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	17.8
Location	33.92444646630176, -118.30760137900029
County	Los Angeles-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4542
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.17

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Condo/Townhouse	1.00	Dwelling Unit	0.88	34,000	4,000	—	55.0	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-12	Sweep Paved Roads
Transportation	T-1	Increase Residential Density

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.	1.45	1.22	11.4	11.3	0.02	0.53	5.41	5.94	0.49	2.59	3.08	—	1,819	1,819	0.07	0.02	0.42	1,827
Mit.	1.45	1.22	11.4	11.3	0.02	0.53	5.41	5.94	0.49	2.59	3.08	—	1,819	1,819	0.07	0.02	0.42	1,827
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.69	42.7	5.60	7.02	0.01	0.26	0.23	0.42	0.23	0.05	0.24	—	1,318	1,318	0.05	0.02	0.02	1,323
Mit.	0.69	42.7	5.60	7.02	0.01	0.26	0.23	0.42	0.23	0.05	0.24	—	1,318	1,318	0.05	0.02	0.02	1,323
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.18	0.60	1.53	1.91	< 0.005	0.07	0.03	0.10	0.06	0.02	0.08	—	356	356	0.01	< 0.005	0.01	357
Mit.	0.18	0.60	1.53	1.91	< 0.005	0.07	0.03	0.10	0.06	0.02	0.08	—	356	356	0.01	< 0.005	0.01	357
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.03	0.11	0.28	0.35	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	58.9	58.9	< 0.005	< 0.005	< 0.005	59.1
Mit.	0.03	0.11	0.28	0.35	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	58.9	58.9	< 0.005	< 0.005	< 0.005	59.1
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.45	1.22	11.4	11.3	0.02	0.53	5.41	5.94	0.49	2.59	3.08	—	1,819	1,819	0.07	0.02	0.42	1,827
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.67	0.56	5.60	7.02	0.01	0.26	0.01	0.27	0.23	< 0.005	0.24	—	1,318	1,318	0.05	0.01	< 0.005	1,323
2025	0.69	42.7	5.15	6.98	0.01	0.22	0.23	0.42	0.20	0.05	0.23	—	1,318	1,318	0.05	0.02	0.02	1,322
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.15	1.53	1.91	< 0.005	0.07	0.03	0.10	0.06	0.02	0.08	—	356	356	0.01	< 0.005	0.01	357
2025	0.02	0.60	0.15	0.21	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	37.0	37.0	< 0.005	< 0.005	0.01	37.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	0.03	0.03	0.28	0.35	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	58.9	58.9	< 0.005	< 0.005	< 0.005	59.1
2025	< 0.005	0.11	0.03	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.12	6.12	< 0.005	< 0.005	< 0.005	6.14

2.3. Construction Emissions by Year, Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.45	1.22	11.4	11.3	0.02	0.53	5.41	5.94	0.49	2.59	3.08	—	1,819	1,819	0.07	0.02	0.42	1,827
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.67	0.56	5.60	7.02	0.01	0.26	0.01	0.27	0.23	< 0.005	0.24	—	1,318	1,318	0.05	0.01	< 0.005	1,323
2025	0.69	42.7	5.15	6.98	0.01	0.22	0.23	0.42	0.20	0.05	0.23	—	1,318	1,318	0.05	0.02	0.02	1,322
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.15	1.53	1.91	< 0.005	0.07	0.03	0.10	0.06	0.02	0.08	—	356	356	0.01	< 0.005	0.01	357
2025	0.02	0.60	0.15	0.21	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	37.0	37.0	< 0.005	< 0.005	0.01	37.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.03	0.03	0.28	0.35	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	58.9	58.9	< 0.005	< 0.005	< 0.005	59.1
2025	< 0.005	0.11	0.03	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.12	6.12	< 0.005	< 0.005	< 0.005	6.14

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.	0.33	1.08	0.05	0.79	< 0.005	0.07	0.05	0.12	0.07	0.01	0.08	16.8	85.1	102	0.78	< 0.005	0.43	123
Mit.	0.32	1.07	0.04	0.72	< 0.005	0.07	0.03	0.10	0.07	0.01	0.08	16.8	69.6	86.4	0.78	< 0.005	0.38	107
% Reduced	3%	1%	13%	9%	—	—	30%	12%	—	30%	4%	—	18%	15%	—	—	13%	13%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.32	1.07	0.05	0.72	< 0.005	0.07	0.05	0.12	0.07	0.01	0.08	16.8	82.8	99.6	0.78	< 0.005	0.25	120
Mit.	0.31	1.07	0.04	0.66	< 0.005	0.07	0.03	0.10	0.07	0.01	0.08	16.8	67.9	84.7	0.78	< 0.005	0.25	105
% Reduced	3%	1%	13%	9%	—	—	30%	12%	—	30%	4%	—	18%	15%	—	—	1%	13%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.83	0.03	0.27	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	8.12	61.5	69.7	0.75	< 0.005	0.32	89.5
Mit.	0.04	0.82	0.02	0.21	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	8.12	48.1	56.2	0.75	< 0.005	0.29	75.8
% Reduced	16%	1%	21%	21%	—	—	30%	26%	—	30%	20%	—	22%	19%	—	—	7%	15%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.15	0.01	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.34	10.2	11.5	0.12	< 0.005	0.05	14.8
Mit.	0.01	0.15	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.34	7.96	9.30	0.12	< 0.005	0.05	12.5
% Reduced	16%	1%	21%	21%	23%	2%	30%	26%	1%	30%	20%	—	22%	19%	< 0.5%	26%	7%	15%

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	0.03	0.03	0.02	0.22	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	51.8	51.8	< 0.005	< 0.005	0.19	52.6
Area	0.30	1.05	0.02	0.57	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	18.0	27.4	0.03	< 0.005	—	28.2
Energy	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Waste	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	0.33	1.08	0.05	0.79	< 0.005	0.07	0.05	0.12	0.07	0.01	0.08	16.8	85.1	102	0.78	< 0.005	0.43	123
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.03	0.02	0.21	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	49.6	49.6	< 0.005	< 0.005	< 0.005	50.3
Area	0.29	1.05	0.02	0.51	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	17.9	27.3	0.03	< 0.005	—	28.1
Energy	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Waste	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	0.32	1.07	0.05	0.72	< 0.005	0.07	0.05	0.12	0.07	0.01	0.08	16.8	82.8	99.6	0.78	< 0.005	0.25	120
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.02	0.19	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	44.9	44.9	< 0.005	< 0.005	0.07	45.6
Area	0.02	0.81	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.64	1.33	1.97	< 0.005	< 0.005	—	2.03
Energy	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Waste	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	0.05	0.83	0.03	0.27	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	8.12	61.5	69.7	0.75	< 0.005	0.32	89.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	7.44	7.44	< 0.005	< 0.005	0.01	7.56
Area	< 0.005	0.15	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.11	0.22	0.33	< 0.005	< 0.005	—	0.34

Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.38	2.38	< 0.005	< 0.005	—	2.39
Water	—	—	—	—	—	—	—	—	—	—	—	0.01	0.15	0.16	< 0.005	< 0.005	—	0.20
Waste	—	—	—	—	—	—	—	—	—	—	—	1.23	0.00	1.23	0.12	0.00	—	4.29
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	0.01	0.15	0.01	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.34	10.2	11.5	0.12	< 0.005	0.05	14.8

2.6. Operations Emissions by Sector, Mitigated

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

Sector	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	0.02	0.02	0.01	0.16	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	36.2	36.2	< 0.005	< 0.005	0.13	36.8
Area	0.30	1.05	0.02	0.57	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	18.0	27.4	0.03	< 0.005	—	28.2
Energy	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Waste	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	0.32	1.07	0.04	0.72	< 0.005	0.07	0.03	0.10	0.07	0.01	0.08	16.8	69.6	86.4	0.78	< 0.005	0.38	107
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.02	0.02	0.02	0.15	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	34.7	34.7	< 0.005	< 0.005	< 0.005	35.2
Area	0.29	1.05	0.02	0.51	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	17.9	27.3	0.03	< 0.005	—	28.1
Energy	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Waste	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	0.31	1.07	0.04	0.66	< 0.005	0.07	0.03	0.10	0.07	0.01	0.08	16.8	67.9	84.7	0.78	< 0.005	0.25	105

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.02	0.02	0.01	0.13	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	31.4	31.4	< 0.005	< 0.005	0.05	32.0
Area	0.02	0.81	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.64	1.33	1.97	< 0.005	< 0.005	—	2.03
Energy	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Waste	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	0.04	0.82	0.02	0.21	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	8.12	48.1	56.2	0.75	< 0.005	0.29	75.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	5.21	5.21	< 0.005	< 0.005	0.01	5.29
Area	< 0.005	0.15	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.11	0.22	0.33	< 0.005	< 0.005	—	0.34
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.38	2.38	< 0.005	< 0.005	—	2.39
Water	—	—	—	—	—	—	—	—	—	—	—	0.01	0.15	0.16	< 0.005	< 0.005	—	0.20
Waste	—	—	—	—	—	—	—	—	—	—	—	1.23	0.00	1.23	0.12	0.00	—	4.29
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	0.01	0.15	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.34	7.96	9.30	0.12	< 0.005	0.05	12.5

3. Construction Emissions Details

3.1. Site Preparation (2024) - 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	0.60	0.50	4.60	5.56	0.01	0.24	—	0.24	0.22	—	0.22	—	858	858	0.03	0.01	—	861

Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	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	0.00	0.00	0.00	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.35	2.35	< 0.005	< 0.005	—	2.36
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	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.39	0.39	< 0.005	< 0.005	—	0.39
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	0.00	0.00	0.00	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.38	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	70.6	70.6	< 0.005	< 0.005	0.28	—
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	—
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	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	0.19	0.19	< 0.005	< 0.005	< 0.005	—
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	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	—
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	—
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	—

3.2. Site Preparation (2024) - Mitigated

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	0.60	0.50	4.60	5.56	0.01	0.24	—	0.24	0.22	—	0.22	—	858	858	0.03	0.01	—	861
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	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	0.00	0.00	0.00	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.35	2.35	< 0.005	< 0.005	—	2.36
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	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.39	0.39	< 0.005	< 0.005	—	0.39
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	0.00	0.00	0.00	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.38	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	70.6	70.6	< 0.005	< 0.005	0.28	—
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	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	0.19	0.19	< 0.005	< 0.005	< 0.005	—
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	—

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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	—
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	—
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	—

3.3. Grading (2024) - 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	1.41	1.19	11.4	10.7	0.02	0.53	—	0.53	0.49	—	0.49	—	1,713	1,713	0.07	0.01	—	1,719
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.57	2.57	—	—	—	—	—	—	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.55	1.55	< 0.005	< 0.005	—	1.56
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	0.00	0.00	0.00	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.57	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	106	106	< 0.005	< 0.005	0.42	—
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	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	0.56	0.56	< 0.005	< 0.005	< 0.005	—
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	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	—
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	—
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	—

3.4. Grading (2024) - Mitigated

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	1.41	1.19	11.4	10.7	0.02	0.53	—	0.53	0.49	—	0.49	—	1,713	1,713	0.07	0.01	—	1,719
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.57	2.57	—	—	—	—	—	—	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.55	1.55	< 0.005	< 0.005	—	1.56

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	0.00	0.00	0.00	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.57	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	106	106	< 0.005	< 0.005	0.42	—
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	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	0.56	0.56	< 0.005	< 0.005	< 0.005	—
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	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	—
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	—
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	—

3.5. Building Construction (2024) - 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	0.67	0.56	5.60	6.98	0.01	0.26	—	0.26	0.23	—	0.23	—	1,305	1,305	0.05	0.01	—	1,309
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.56	5.60	6.98	0.01	0.26	—	0.26	0.23	—	0.23	—	1,305	1,305	0.05	0.01	—	1,309
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.15	1.46	1.82	< 0.005	0.07	—	0.07	0.06	—	0.06	—	340	340	0.01	< 0.005	—	341
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.27	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56.2	56.2	< 0.005	< 0.005	—	56.4
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.04	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.45	3.45	< 0.005	< 0.005	0.01	—
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	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.63	9.63	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.45	3.45	< 0.005	< 0.005	< 0.005	—
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	—
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	—	2.54	2.54	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	—
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	—

3.6. Building Construction (2024) - Mitigated

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	0.67	0.56	5.60	6.98	0.01	0.26	—	0.26	0.23	—	0.23	—	1,305	1,305	0.05	0.01	—	1,309
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.67	0.56	5.60	6.98	0.01	0.26	—	0.26	0.23	—	0.23	—	1,305	1,305	0.05	0.01	—	1,309
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.15	1.46	1.82	< 0.005	0.07	—	0.07	0.06	—	0.06	—	340	340	0.01	< 0.005	—	341
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.27	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56.2	56.2	< 0.005	< 0.005	—	56.4
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.04	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.45	3.45	< 0.005	< 0.005	0.01	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.63	9.63	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.45	3.45	< 0.005	< 0.005	< 0.005	—
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	—
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	—	2.54	2.54	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	—

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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	—
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	—

3.7. Building Construction (2025) - 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	0.62	0.52	5.14	6.94	0.01	0.22	—	0.22	0.20	—	0.20	—	1,305	1,305	0.05	0.01	—	1,309
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.4	20.4	< 0.005	< 0.005	—	20.5
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.38	3.38	< 0.005	< 0.005	—	3.39
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	—

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.44	9.44	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.39	3.39	< 0.005	< 0.005	< 0.005	—
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	—
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	—	0.15	0.15	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	—
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	—

3.8. Building Construction (2025) - Mitigated

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	0.62	0.52	5.14	6.94	0.01	0.22	—	0.22	0.20	—	0.20	—	1,305	1,305	0.05	0.01	—	1,309
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.4	20.4	< 0.005	< 0.005	—	20.5
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.38	3.38	< 0.005	< 0.005	—	3.39
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.44	9.44	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.39	3.39	< 0.005	< 0.005	< 0.005	—
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	—
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	—	0.15	0.15	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	—

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	—
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	—

3.9. Paving (2025) - 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	0.61	0.51	4.37	5.31	0.01	0.19	—	0.19	0.18	—	0.18	—	823	823	0.03	0.01	—	826
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.87	1.87	< 0.005	< 0.005	—	1.87
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	1.03	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	229	229	0.01	0.01	0.02	—
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	—
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	—
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	—	3.19	3.19	< 0.005	< 0.005	0.01	—
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	—
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	—
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	—
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	—
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	—

3.10. Paving (2025) - Mitigated

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	0.61	0.51	4.37	5.31	0.01	0.19	—	0.19	0.18	—	0.18	—	823	823	0.03	0.01	—	826
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.87	1.87	< 0.005	< 0.005	—	1.87
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	1.03	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	229	229	0.01	0.01	0.02	—
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	—
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	—
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	—	3.19	3.19	< 0.005	< 0.005	0.01	—
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	—

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	—
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	—
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	—
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	—

3.11. Architectural Coating (2025) - 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	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	42.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	—	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.30	0.30	< 0.005	< 0.005	—	0.30
Architectural Coatings	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.89	1.89	< 0.005	< 0.005	< 0.005	—
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	—
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	—
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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	—
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	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—
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	—
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	—

3.12. Architectural Coating (2025) - Mitigated

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	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	42.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	—	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.30	0.30	< 0.005	< 0.005	—	0.30
Architectural Coatings	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.89	1.89	< 0.005	< 0.005	< 0.005	—
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	—
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	—
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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	—
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	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—
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	—
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	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/T	0.03	0.03	0.02	0.22	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	51.8	51.8	< 0.005	< 0.005	0.19	52.6
Total	0.03	0.03	0.02	0.22	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	51.8	51.8	< 0.005	< 0.005	0.19	52.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhouse	0.03	0.03	0.02	0.21	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	49.6	49.6	< 0.005	< 0.005	< 0.005	50.3
Total	0.03	0.03	0.02	0.21	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	49.6	49.6	< 0.005	< 0.005	< 0.005	50.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhouse	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	7.44	7.44	< 0.005	< 0.005	0.01	7.56
Total	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	7.44	7.44	< 0.005	< 0.005	0.01	7.56

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhouse	0.02	0.02	0.01	0.16	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	36.2	36.2	< 0.005	< 0.005	0.13	36.8
Total	0.02	0.02	0.01	0.16	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	36.2	36.2	< 0.005	< 0.005	0.13	36.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhouse	0.02	0.02	0.02	0.15	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	34.7	34.7	< 0.005	< 0.005	< 0.005	35.2
Total	0.02	0.02	0.02	0.15	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	34.7	34.7	< 0.005	< 0.005	< 0.005	35.2

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	5.21	5.21	< 0.005	< 0.005	0.01	5.29
Total	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	5.21	5.21	< 0.005	< 0.005	0.01	5.29

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	6.69	6.69	< 0.005	< 0.005	—	6.72
Total	—	—	—	—	—	—	—	—	—	—	—	—	6.69	6.69	< 0.005	< 0.005	—	6.72
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	6.69	6.69	< 0.005	< 0.005	—	6.72
Total	—	—	—	—	—	—	—	—	—	—	—	—	6.69	6.69	< 0.005	< 0.005	—	6.72
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	1.11	1.11	< 0.005	< 0.005	—	1.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	1.11	1.11	< 0.005	< 0.005	—	1.11

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	6.69	6.69	< 0.005	< 0.005	—	6.72
Total	—	—	—	—	—	—	—	—	—	—	—	—	6.69	6.69	< 0.005	< 0.005	—	6.72
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	6.69	6.69	< 0.005	< 0.005	—	6.72
Total	—	—	—	—	—	—	—	—	—	—	—	—	6.69	6.69	< 0.005	< 0.005	—	6.72
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	1.11	1.11	< 0.005	< 0.005	—	1.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	1.11	1.11	< 0.005	< 0.005	—	1.11

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhous	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.70	7.70	< 0.005	< 0.005	—	7.72
Total	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.70	7.70	< 0.005	< 0.005	—	7.72
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.70	7.70	< 0.005	< 0.005	—	7.72
Total	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.70	7.70	< 0.005	< 0.005	—	7.72
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.28	1.28	< 0.005	< 0.005	—	1.28
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.28	1.28	< 0.005	< 0.005	—	1.28

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.70	7.70	< 0.005	< 0.005	—	7.72
Total	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.70	7.70	< 0.005	< 0.005	—	7.72
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.70	7.70	< 0.005	< 0.005	—	7.72

Total	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.70	7.70	< 0.005	< 0.005	—	7.72
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.28	1.28	< 0.005	< 0.005	—	1.28
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.28	1.28	< 0.005	< 0.005	—	1.28

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	0.29	0.26	0.02	0.51	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	17.9	27.3	0.03	< 0.005	—	28.1
Consumer Products	—	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.15	0.15	< 0.005	< 0.005	—	0.15
Total	0.30	1.05	0.02	0.57	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	18.0	27.4	0.03	< 0.005	—	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.29	0.26	0.02	0.51	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	17.9	27.3	0.03	< 0.005	—	28.1

Consumer Products	—	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.29	1.05	0.02	0.51	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	17.9	27.3	0.03	< 0.005	—	28.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.11	0.20	0.31	< 0.005	< 0.005	—	0.32
Consumer Products	—	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	< 0.005	0.15	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.11	0.22	0.33	< 0.005	< 0.005	—	0.34

4.3.2. Mitigated

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

Source	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	0.29	0.26	0.02	0.51	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	17.9	27.3	0.03	< 0.005	—	28.1
Consumer Products	—	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	0.01	0.01	< 0.005	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.15	0.15	< 0.005	< 0.005	—	0.15
Total	0.30	1.05	0.02	0.57	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	18.0	27.4	0.03	< 0.005	—	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.29	0.26	0.02	0.51	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	17.9	27.3	0.03	< 0.005	—	28.1
Consumer Products	—	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.29	1.05	0.02	0.51	< 0.005	0.07	—	0.07	0.07	—	0.07	9.37	17.9	27.3	0.03	< 0.005	—	28.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.11	0.20	0.31	< 0.005	< 0.005	—	0.32
Consumer Products	—	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	< 0.005	0.15	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.11	0.22	0.33	< 0.005	< 0.005	—	0.34

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Total	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Total	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.01	0.15	0.16	< 0.005	< 0.005	—	0.20
Total	—	—	—	—	—	—	—	—	—	—	—	0.01	0.15	0.16	< 0.005	< 0.005	—	0.20

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Total	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Total	—	—	—	—	—	—	—	—	—	—	—	0.07	0.90	0.97	0.01	< 0.005	—	1.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.01	0.15	0.16	< 0.005	< 0.005	—	0.20
Total	—	—	—	—	—	—	—	—	—	—	—	0.01	0.15	0.16	< 0.005	< 0.005	—	0.20

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Total	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Total	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1.23	0.00	1.23	0.12	0.00	—	4.29
Total	—	—	—	—	—	—	—	—	—	—	—	1.23	0.00	1.23	0.12	0.00	—	4.29

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Total	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Total	—	—	—	—	—	—	—	—	—	—	—	7.41	0.00	7.41	0.74	0.00	—	25.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1.23	0.00	1.23	0.12	0.00	—	4.29
Total	—	—	—	—	—	—	—	—	—	—	—	1.23	0.00	1.23	0.12	0.00	—	4.29

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

4.6.2. Mitigated

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

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

Condo/Townhous	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. 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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	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)

Equipment 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Site Preparation	Site Preparation	8/16/2024	8/17/2024	5.00	1.00	—
Grading	Grading	8/18/2024	8/20/2024	5.00	2.00	—
Building Construction	Building Construction	8/21/2024	1/8/2025	5.00	100	—
Paving	Paving	1/9/2025	1/16/2025	5.00	5.00	—
Architectural Coating	Architectural Coating	1/17/2025	1/24/2025	5.00	5.00	—

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
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41

Site Preparation	Tractors/Loaders/Backh	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	6.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	6.00	367	0.40
Grading	Tractors/Loaders/Backh oes	Diesel	Average	1.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	6.00	82.0	0.20
Building Construction	Tractors/Loaders/Backh oes	Diesel	Average	2.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	4.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	7.00	81.0	0.42
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backh oes	Diesel	Average	1.00	7.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	6.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	6.00	367	0.40
Grading	Tractors/Loaders/Backh oes	Diesel	Average	1.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	6.00	82.0	0.20
Building Construction	Tractors/Loaders/Backh oes	Diesel	Average	2.00	8.00	84.0	0.37

Paving	Cement and Mortar Mixers	Diesel	Average	4.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	7.00	81.0	0.42
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	7.00	84.0	0.37
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	—	—	—	—
Site Preparation	Worker	5.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	7.50	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.72	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.11	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	17.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.14	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	5.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	7.50	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.72	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.11	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	17.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.14	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	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

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	68,850	22,950	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	0.50	0.00	—
Grading	—	—	1.50	0.00	—
Paving	0.00	0.00	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	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
Condo/Townhouse	7.32	8.14	6.28	2,660	57.8	64.3	49.6	21,014

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	5.12	5.70	4.40	1,862	40.5	45.0	34.7	14,710

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	1
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

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	1
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)
68850	22,950	0.00	0.00	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	4,592	532	0.0330	0.0040	24,030

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	4,592	532	0.0330	0.0040	24,030

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	37,274	68,565

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	37,274	68,565

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	13.7	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	13.7	—

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
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

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	5.07	annual days of extreme heat
Extreme Precipitation	4.45	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
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	0	0	0	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	1	1	1	2
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	29.9
AQ-PM	84.9
AQ-DPM	93.0
Drinking Water	39.5
Lead Risk Housing	84.5
Pesticides	0.00
Toxic Releases	96.0
Traffic	94.8
Effect Indicators	—
CleanUp Sites	87.3
Groundwater	23.4
Haz Waste Facilities/Generators	4.12
Impaired Water Bodies	0.00
Solid Waste	86.6
Sensitive Population	—
Asthma	96.5
Cardio-vascular	96.3
Low Birth Weights	98.3
Socioeconomic Factor Indicators	—
Education	84.2
Housing	97.3
Linguistic	80.7
Poverty	90.5

Unemployment	75.4

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	8.969588092
Employed	39.30450404
Median HI	10.75324009
Education	—
Bachelor's or higher	6.659822918
High school enrollment	0.808417811
Preschool enrollment	6.83947132
Transportation	—
Auto Access	18.65776979
Active commuting	83.10021814
Social	—
2-parent households	3.554471962
Voting	46.56743231
Neighborhood	—
Alcohol availability	37.30270756
Park access	81.35506224
Retail density	43.85987425
Supermarket access	81.58603875
Tree canopy	23.97022969
Housing	—
Homeownership	7.262928269

Housing habitability	7.057615809
Low-inc homeowner severe housing cost burden	14.65417683
Low-inc renter severe housing cost burden	22.82817914
Uncrowded housing	10.08597459
Health Outcomes	—
Insured adults	4.722186578
Arthritis	0.0
Asthma ER Admissions	4.4
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	12.6
Cognitively Disabled	39.7
Physically Disabled	55.6
Heart Attack ER Admissions	11.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	97.0
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	0.0
SLR Inundation Area	0.0
Children	37.8
Elderly	85.6
English Speaking	25.6
Foreign-born	76.7
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	16.5
Traffic Density	96.9
Traffic Access	72.8
Other Indices	—
Hardship	86.7
Other Decision Support	—
2016 Voting	4.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	98.0
Healthy Places Index Score for Project Location (b)	3.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	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
Land Use	Average square footage of townhome in Los Angeles County = 1,700 square feet Average 2.75 people per household 0.88 acres Maximum 30 du/ac (estimate 20 units for this project)
Construction: Construction Phases	No demolition is required. Currently vacant lot.

LOS ANGELES COUNTY
SANITATION DISTRICTS
Converting Waste Into Resources

Robert C. Ferrante
Chief Engineer and General Manager

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
(562) 699-7411 • www.lacsd.org

August 10, 2020

Ref. DOC 5865491

Mr. Ryan Baksh, Contractor
Baksh Construction
904 Silver Spur Road, No. 454
Rolling Hills Estates, CA 90274

Dear Mr. Baksh:

Will Serve Letter Update for Tract Map No. 71251

The Sanitation Districts of Los Angeles County (Districts) received your will serve letter update request for the subject project on July 1, 2020. The proposed project is located within the jurisdictional boundary of District No. 5. We offer the following comments regarding sewerage service:

1. The wastewater flow originating from the proposed project will discharge to a local sewer line, which is not maintained by the Districts, for conveyance to the Districts' East Rosecrans Avenue Trunk Sewer Section 2, located in Western Avenue at 130th Street. The Districts' 12-inch diameter trunk sewer has a capacity of 2.3 million gallons per day (mgd) and conveyed a peak flow of 0.5 mgd when last measured in 2017.

2. The wastewater generated by the proposed project will be treated at the Joint Water Pollution Control Plant located in the City of Carson, which has a capacity of 400 mgd and currently processes an average flow of 261.1 mgd.

3. The expected average wastewater flow from the project site, described in the request as five single family homes, is 1,300 gallons per day. For a copy of the Districts' average wastewater generation factors, go to www.lacsd.org, under Services, then Wastewater Program and Permits, select Will Serve Program, and scroll down to click on the Table 1, Loadings for Each Class of Land Use link.

4. The Districts are empowered by the California Health and Safety Code to charge a fee to connect facilities (directly or indirectly) to the Districts' Sewerage System or to increase the strength or quantity of wastewater discharged from connected facilities. This connection fee is a capital facilities fee that is used by the Districts to upgrade or expand the Sewerage System. Payment of a connection fee will be required before this project is permitted to discharge to the Districts' Sewerage System. For more information and a copy of the Connection Fee Information Sheet, go to www.lacsd.org, under Services, then Wastewater (Sewage) and select Rates & Fees. In determining the impact to the Sewerage System and applicable connection fees, the Districts will determine the user category (e.g. Condominium, Single Family home, etc.) that best represents the actual or anticipated use of the parcel(s) or facilities on the parcel(s) in the development. For more specific information regarding the connection fee application procedure and fees, the developer should contact the Districts' Wastewater Fee Public Counter at (562) 908-4288, extension 2727

5. In order for the Districts to conform to the requirements of the Federal Clean Air Act (CAA), the capacities of the Districts' wastewater treatment facilities are based on the regional growth forecast adopted by the Southern California Association of Governments (SCAG). Specific policies included in the development of the SCAG regional growth forecast are incorporated into clean air plans, which are prepared by the South

Coast and Antelope Valley Air Quality Management Districts in order to improve air quality in the South Coast and Mojave Desert Air Basins as mandated by the CCA. All expansions of Districts' facilities must be sized and service phased in a manner that will be consistent with the SCAG regional growth forecast for the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial. The available capacity of the Districts' treatment facilities will, therefore, be limited to levels associated with the approved growth identified by SCAG. As such, this letter does not constitute a guarantee of wastewater service, but is to advise the developer that the Districts intend to provide this service up to the levels that are legally permitted and to inform the developer of the currently existing capacity and any proposed expansion of the Districts' facilities.

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2717 or at araza@lacsd.org.

Very truly yours,

Adriana Raza

Adriana Raza
Customer Service Specialist
Facilities Planning Department

AR:ar

1701 W. 120th St.
Phase I Environmental Site Assessment

Phase I Environmental Site Assessment

Prepared For:
William Little Co
William Little
1701 W. 120th Street
Los Angeles CA, 90047

Prepared By:
Elevated Entitlements
280 E. Thousand Oaks Blvd. Suite H
Thousand Oaks, CA 913601

June 29, 2023

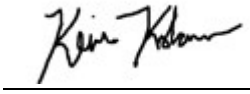
Table of Contents

LIST OF APPENDICES

Sign-off Sheet and Signature of Environmental Professional

This document entitled Phase I Environmental Site Assessment was prepared by Elevated Entitlements for the account of William Little Co (the "Client"). Any reliance on this document by any third party is strictly prohibited. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Elevated Entitlements shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

All information, conclusions, and recommendations provided by Elevated Entitlements in this document regarding the Phase I ESA have been prepared under the supervision of and reviewed by the professional whose signature appears below.

Author: 

Abbreviations

AAI	All Appropriate Inquiry
ACM	Asbestos-containing material
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
BER	Business Environmental Risk
CERCLA	Comprehensive Environmental Response, Compensation, & Liability Act
CFR	Code of Federal Regulation
CREC	Controlled Recognized Environmental Conditions
ELUC	Environmental Land Use Control
EP	Environmental Professional
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
ft amsl	Feet above mean sea level
HREC	Historical Recognized Environmental Conditions
LBP	Lead-based paint
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Conditions
USDA	United States Department of Agriculture

USGS	United States Geological Survey
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition
VOCs	Volatile Organic Compounds

1.0 SUMMARY

Elevated Entitlements has completed a Phase I Environmental Site Assessment (ESA) report of the property located at 1701 W. 120th Street, Los Angeles, California, defined by Assessor's Parcel Number (APN) 607—022-081 (the "Property"), on behalf of William Little Co. (William Little; the "Client"). The work was performed according to Elevated Entitlements proposal and terms and conditions dated February 2, 2023 and accepted by the Client on February 2, 2023. The William Little Co. has been designated as the User of this report.

The Phase I ESA was conducted in conformance with the requirements of ASTM International (ASTM) Designation E 1527-13, and All Appropriate Inquiry (AAI) as defined by the US-EPA in Title 40 of the Code of Federal Regulations, Part 312, except as may have been modified by the scope of work, and terms and conditions, requested by the Client. Any exceptions to, or deletions from, the ASTM or AAI practice are described herein.

The Property consists of approximately 0.88 acres of land, zoned under the West Athens-Westmont Community Plan. Surrounding properties include Los Angeles Southwest College to the north, single family uses to the south, west, and east. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figure 2.

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527 of the property located at1701 W. 120th St., Los Angeles, California,, defined by Assessor's Parcel Numbers (APN) 6079-022-081 or the "Property." Any exceptions to, or deletions from, this practice are described in the Data Gaps section of this report.

The preceding summary is intended for informational purposes only. Reading of the full body of this report is recommended.

2.0 INTRODUCTION

The objective of this Phase I ESA was to perform All Appropriate Inquiry (AAI) into the past ownership and uses of the Property consistent with good commercial or customary practice as outlined by ASTM International (ASTM) in "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," Designation E1527-13. "All Appropriate Inquiry" (AAI) is the process for evaluating a property's environmental conditions for the purpose of qualifying for landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), following final rule of Part 312 of Title 40, Code of Federal Regulations (40 CFR Part 312).

The purpose of this Phase I ESA was to identify, to the extent feasible, adverse environmental conditions including Recognized Environmental Conditions ("RECs") of the Property.

The ASTM E1527-13 standard indicates that the purpose of the Phase I ESA is to identify RECs, including historical recognized environmental conditions ("HRECs"), and controlled recognized environmental conditions ("CRECs") that may exist at a property. The term "recognized environmental conditions" means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property:

- Due to any release to the environment.
- Under conditions indicative of a release to the environment; or
- Under conditions that pose a material threat of a future release to the environment.

ASTM defines a "HREC" as a REC that has occurred in connection with a property, but has been addressed to the satisfaction of the applicable regulatory authority and meets current unrestricted use criteria established by a regulatory authority, without subjecting the Property to any required controls (e.g., property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a HREC, the Environmental Professional (EP) must determine whether the past release is a REC when the current Phase I ESA is conducted (e.g., if there has been a change in the regulations). If the EP considers the past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a REC.ASTM defines a "CREC" as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), but with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional controls, or engineering controls).

As defined by ASTM, RECs can include hazardous substances or petroleum products present under conditions in compliance with laws if that presence represents a material threat of future release. The presence of hazardous substances or petroleum products is, however, not a REC if that presence is a de minimis condition. De minimis conditions are minor occurrences of contamination that generally do not present a material risk to human health and would not likely be subject to enforcement action if brought to the attention of governmental agencies. ASTM also considers the potential for a Business Environmental Risk (BER), defined as a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of the Property, not necessarily limited to those environmental issues required to be investigated by the ASTM standard. Consideration of BERs may involve addressing one or more ASTM non-scope considerations.

This Phase I ESA was conducted in accordance with our agreement with The William Little Co dated February 1 2023 and Client's authorization on February 1 2023The scope of work conducted during this Phase I ESA consisted of a visit to the Property and review of reasonably ascertainable documents. The scope of work did not include an assessment for environmental regulatory compliance of any facility ever operated at the Property (past or present), or sampling and analyzing of environmental media. Elevated Entitlements was not contracted to perform an independent evaluation of the purchase or lease price of the Property and its relationship to current fair market value. The conclusions presented in this Phase I ESA report are professional opinions based on data described herein. The opinions are subject to the limitations described herein. ASTM E1527-13 notes that the availability of record information varies from source to source. The User or EP is not obligated to identify, obtain, or review every possible source that might exist with respect to a property. Instead, ASTM identifies record information that is reasonably ascertainable from standard sources. "Reasonably ascertainable" means:

- Information that is publicly available.
- Information that is obtainable from its source within reasonable time and cost constraints.
- Information that is practicably reviewable.

2.1 PROPERTY DESCRIPTION

The Property consists of approximately 0.88 acres of land, zoned under the West Athens-Westmont Community Plan1701 W 120th St. Los Angeles California. Surrounding properties comprise of Los Angeles Southwest College to the north, single family uses to the south, east , and west. A vicinity location map is illustrated on Figure 1. A property location map illustrating the property location is provided as Figure 2.

2.2 SPECIAL TERMS, CONDITIONS, AND ADDITIONAL ASSUMPTIONS

There were no special terms, conditions, or additional assumptions associated with this Phase I Environmental Site Assessment.

2.3 EXCEPTIONS AND LIMITING CONDITIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided and given the schedule and budget constraints established by the client. No other representations, warranties, or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential and actual liabilities and conditions associated with the Property.

This report provides an evaluation of selected environmental conditions associated with the Property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Elevated Entitlements at that time. There are no assurances regarding the accuracy and completeness of this information received from others.

Conclusions made within this report consist of Elevated Entitlements professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available, and the results of the work. They are not a certification of the Property's environmental condition.

This report has been prepared for the exclusive use of the client identified herein and any use of or reliance on this report by any third party is prohibited, except as may be consented to in writing by Elevated Entitlements or as required by law. The provision of any such consent is at Elevated Entitlements' sole and unfettered discretion and will only be authorized pursuant to the conditions of Elevated Entitlements' standard form reliance letter. Elevated Entitlements assumes no responsibility for losses, damages, liabilities, or claims arising from third party use of this report.

The conclusions are based on the conditions encountered by a project site visit of the property by Elevated Entitlements at the time the work was conducted.

As the purpose of this report is to identify Property conditions, which may pose an environmental risk; the identification of non-environmental risks to structures or people on the Property is beyond the scope of this assessment.

The findings, observations, and conclusions expressed by Elevated Entitlements in this report are not an opinion concerning the compliance of any past or present owner or operator of the Property which is the subject of this report with any Federal, state, provincial or local law or regulation.

This report presents professional opinions and findings of a scientific and technical nature. It does not and shall not be construed to offer a legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations, or policies of Federal, state, provincial or local governmental agencies. It is recommended that issues raised by the report should be reviewed for the client by its legal counsel.

Elevated Entitlements specifically disclaims any responsibility to update the conclusions in this report if new or different information later becomes available or if the conditions or activities on the property subsequently change.

3.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the Property and surrounding area and evaluate if past uses may have resulted in RECs. Physical setting records are evaluated to determine if the physical setting may have contributed to adverse environmental conditions in connection with the Property. During the review of historical records, Elevated Entitlements attempted to identify uses of the Property from the present to the first developed use of the Property. Elevated Entitlements' research included the reasonably ascertainable and useful records described in this section.

3.1 PHYSICAL SETTING

A summary of the physical setting of the Property is provided in the table below with additional details in the following subsections.

Topography:	The Property is predominantly flat (2%- 9% slope), in keeping with the topography of the surrounding area. According to USGS 7.5- minute topographic mapping of the Inglewood Quadrangle, the Property lies at an approximate elevation of 175 feet above mean sea level (ft amsl).
Soil/Bedrock Data:	According to US Department of Agriculture (USDA) Soil Conservation Service (SCS) National Cooperative Soil Survey (NCSS), soils at the Property are classified as Xerorthents, Terraced. Xerorthents is the majority of the soil composition (alluvial fans) of the project site.
Estimated Depth to Groundwater/ Estimated Direction of Gradient:	The nearest inactive water well, as reported within the United States Geological Survey (USGS) website, is located approximately 0.36miles north-east of the Property. The total depth of the inactive well is recorded as 536 feet below ground surface (ft bgs).
NOTE: Site-specific groundwater flow direction and depth can only be determined by conducting site-specific testing, which Elevated Entitlements has not conducted.	

3.1.1 Property Topography and Surface Water Flow

The topography of the Property ranges from approximately 175 ft amsl (USGS 7.5-minute Inglewood Quadrangle Topography Map). Based on the topography, surface water on the Property infiltrates the ground surface or flows overland to the north.

3.1.2 Regional and Property Geology

The Property is located in Southwestern Los Angeles County in the Inglewood area. Bedrock units in the Inglewood quadrangle are dominated by (1) Older Quaternary alluvium, (2) and marine deposits. These rocks are complexly deformed by normal, reverse, and thrust faults.

The nearest inactive water well, as reported within the United States Geological Survey (USGS) website, is located approximately 3,171 feet north-west of the Property. The total depth of the inactive well is recorded as 701 feet below ground surface.

3.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS

A regulatory agency database search report was obtained from Environmental Data Resources, Inc., (EDR) a third-party environmental database search firm. Elevated Entitlements evaluated the information listed within the database relative to potential impact to the Property, assessing the potential for impacts based in part on the physical setting. As part of this process, inferences have been made regarding the likely groundwater flow direction at or near the Property. As described in this report, the inferred shallow groundwater flow direction is likely to be towards the north. Observations about the Property and surrounding sites made during the Property site visit is provided in more detail below.

3.2.1 Listings for Property

The Property was not identified in the environmental database report.

3.2.2 Listings for Nearby Sites with Potential to Impact Property

Elevated Entitlements assessed data presented in the environmental agency database search report to evaluate the potential for conditions on adjacent and nearby sites to pose a REC, CREC, or HREC for the Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products to migrate to the Property from a nearby site, including by vapor migration or encroachment (i.e., potential for a vapor encroachment condition [VEC]. No nearby sites with potential impact to the Property were identified.

3.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

Elevated Entitlements checked the following sources to obtain information pertaining to Property use and/or indications of RECs in connection with the Property:

3.3.1 California Geologic Energy Management Division

Agency Name Contact Information	Finding
California Geologic Energy Management Division Department of Conservation 5816 Corporate Avenue, Suite 200 Cypress, CA 90630 Online database: https://maps.conservation.ca.gov/doggr/wellfinder/	Elevated Entitlements searched for oil wells on the California Geologic Energy Management Division (CalGEM) Division of Oil, Gas, and Geothermal Resources (DOGGR) online database. According to the database, there is one oil or gas well located on the Property. Email correspondence on March 24, 2023 with Siara Thomas with the California Department of Conservation confirmed that records do indicate there is one oil and gas wells in the area of interest. The surface of the well was plugged on June 9, 2005. The was made and approved on March 23, 2009.

3.3.2 Local Health Department

Agency Name Contact Information	Finding
Los Angeles County Public Health	Elevated Entitlements submitted a request for pertinent information. Los Angeles County Public health does not have any records for this address or parcel numbers.
Los Angeles County Environmental Health Services 5555 Ferguson Drive Suite 120-04 Commerce, CA 90022phicor@ph.lacounty.gov	Elevated Entitlements submitted a request for pertinent information on March 30, 2023. Los Angeles County Environmental Health Services does not have any records related to septic tanks, landfills, or water wells for this address or parcel numbers.

3.3.3 Fire Department

Agency Name Contact Information	Finding
Los Angeles County Fire Department 157 W. 5th Street, 2nd Floor San Bernardino, CA 92415	Elevated Entitlements submitted a request for an *Environmental Audit Phase I Certified Hazardous Materials Records Search Finding Report* from Los Angeles County Fire Protection District, Hazardous Materials Division on March 30, 2023. The Los Angeles County Fire Department did not have any records of potentially environmentally harmful substances or wells on site.

3.3.4 Local Building and/or Planning Department Records

Agency Name, Contact Information	Findings
Los Angeles County Planning 385 North Arrowhead Avenue San Bernardino, CA 92415	Elevated Entitlements submitted a request for pertinent information on February 28, 2023. Did not receive any building permits, conditional use permits, nor building records on the subject site from both Planning Department and Public Works Department.

3.3.5 California Department of Toxic Substances Control (DTSC)

Agency Name, Contact Information	Findings
Department of Toxic Substances Control (DTSC) Chatsworth Regional Office 9211 Oakdale Avenue Chatsworth, CA 91311 (818) 717-6500 https://www.envirostor.dtsc.ca.gov/	Elevated Entitlements searched EnviroStor, an online database compiled by DTSC that provides information and documents pertaining to sites that DTSC has oversight of. No records exist for the Property on the Envirostor online database.

3.3.6 California State Water Resources Control Board

Agency Name, Contact Information	Findings
California State Water Resources Control Board (SWRCB) Regional Water Quality Control Board (RWQCB) District 4 320 W. Fourth Street, Suite 200 Los Angeles, California 90013 https://geotracker.waterboards.ca.gov	Elevated Entitlements searched GeoTracker, an online database compiled by the California State Water Resources Control Board that provides information and documents pertaining to sites that RWQCB has oversight of. No records exist for the Property on the GeoTracker online database.

3.4 HISTORICAL RECORDS REVIEW

3.4.1 Land Title Records/Deeds

A Preliminary Land Title Report was provided to Elevated Entitlements by the User, but no environmental liens or activity use limitations were included in the report. Note that a Preliminary Title Report may not have lien or activity use limitation data included within it.

No other land title records, deeds, environmental liens, or activity and use limitation documents were reviewed by Elevated Entitlements as part of this assessment.

3.4.2 Aerial Photographs

Elevated Entitlements reviewed historical aerial photographs provided by EDR. The general type of activity on a property and land use changes can often be discerned from the type and layout of structures visible in the photographs. However, specific elements of a facility's operation usually cannot be discerned from aerial photographs alone. The following table summarizes Elevated Entitlement's observations of the reviewed historical aerial photographs.

Year	Imagery Date	Observations, Property and Adjoining Properties
1995	10/1/1995	The property is comprised of existing structures making up a well. Surrounding properties to the north were largely developed with residential uses.
2002	5/28/2002	The property is comprised of an existing structure. All existing developments at this time remains similar to that of the 1995 image.
2003	11/8/2003	The property is comprised of an existing structures. One can now see that most of the surrounding uses largely unchanged.
2009	5/24/2009	Most of the structures making up the well have been demolished. The surrounding structures remain unchanged.
2013	3/21/2013	All existing structures making up the site have been demolished.
2015	1/1/2015	No change.
2016	9/4/2016	No change.
2017	6/13/2017	No change.
2018	8/25/2018	No change.
2019	12/15/2019	No change.
2020	10/1/2020	No change.

3.4.3 Historical Fire Insurance Maps

Fire insurance maps were developed for use by insurance companies to depict facilities, properties, and their uses for many locations throughout the United States. These maps provide information on the history of prior land use and are useful in assessing whether there may be potential environmental contamination on or near the Property. These maps, which have been periodically updated since the late 19th century, often provide valuable insight into historical Property uses. Elevated Entitlements requested fire insurance maps. However, no coverage exists for the Property.

3.4.4 Other Historical Sources

No other historical sources were researched.

4.0 DESKTOP RECONNAISSANCE

Desktop reconnaissance was conducted by Ramiro Gomez of Elevated Entitlements on April 10, 2023. Figure 2 provides information about the Property. Project site photographs collected during the Desktop reconnaissance are included in Appendix C.

5.0 DESKTOP RECONNAISSANCE METHODOLOGY

The desktop reconnaissance focused on observation of current conditions and observable indications of past uses and conditions of the Property that may indicate the presence of RECs. The on-site reconnaissance of the Property was conducted in person via a field visit. Elevated Entitlements utilized the following methodology for an on-site reconnaissance review of the Property:

- Traverse the outer Property boundary (Via Google Earth)
- Traverse across the Property (Via Google Earth)
- Traverse the periphery of all structures on the Property (Via Google Earth)

6.0 GENERAL DESCRIPTION

Property and Area Description:	The Property is comprised of undeveloped open space land located close to the intersection of S Western Ave and W 120th St. The surrounding parcels are developed Residential uses. The area to the north of the property is rail and Freeway. That freeway being the 105 Freeway.
Property Operations.	The Property is not currently under use for any business operations or residential dwelling as it is undeveloped.
Structures, Roads, Other Improvements:	The Property is improved with roads and structures present to the south, east and west.
Property Size (acres):	Approximately 0.88 Acres or 38,332.8 Square Feet.
Estimated % of Property Covered by Buildings and/or Pavement:	0% of property is covered by pavement. There are a number of existing structures around the site.
Observed Current Property Use/Operations:	Open space, undeveloped.
Observed Evidence of Past Property Use(s):	There is no observed evidence of the past use. The site used to have an oil well on it which has since been plugged.

7.0 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

Observations	Description/Location
Hazardous Substances and Petroleum Products as Defined by CERCLA 42 **U.S.C. § 9601(14):**	None observed via project site visit observations.
Drums (5 gallons):	None observed via project site observations.
Strong, Pungent, or Noxious Odors:	None observed via project site observations.
Pools of Liquid:	None observed via project site observations.
Unidentified Substance Containers:	None observed via project site observations.
PCB-Containing Equipment:	None observed via project site observations.
Other Observed Evidence of Hazardous Substances or Petroleum Products:	None observed via project site observations.

8.0 PROJECT SITE EXTERIOR OBSERVATIONS

Elevated Entitlements made the following observations during digital reconnaissance of exterior areas of the Property:

Observations	Description
On-site Pits, Ponds, or Lagoons:	None observed via project site observations.
Stained Soil or Pavement:	None observed via project site observations.
Stressed Vegetation:	None observed via project site observations.
Waste Streams and Waste Collection Areas:	None observed via project site observations.
Solid Waste Disposal:	No areas indicative of solid waste disposal was observed during project site observation.
Potential Areas of Fill Placement:	No mounds, piles, or depressions suggesting the placement of fill material were observed on the Property during project site observations.
Wastewater:	No exterior wastewater discharge was observed during project site observations.
Stormwater:	Stormwater appears to soak into the ground surface or is directed into natural storm water channels.
Wells:	No inactive or active wells were observed during project site observations.
Septic Systems:	No visible evidence of the existence of a septic system was observed during project site observations or records research.

9.0 UNDERGROUND STORAGE TANKS/STRUCTURES

Existing USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), which would indicate the presence of USTs, was observed during project site observations.
Former USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during project site observations.
Other Underground Structures:	None observed during project site observations.

10.0 ABOVEGROUND STORAGE TANKS

Existing ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), which would indicate the presence of ASTs, was discovered during the project site observations.
Former ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), reports, or other evidence of the former presence of ASTs was discovered during the project site observations.

11.0 ADJOINING PROPERTIES

11.1.1 Current Uses of Adjoining Properties

During the project site digital reconnaissance, Elevated Entitlements made the following observations about use and activities on adjoining sites of the Property:

NORTH	The parcel to the north is a commercial use. There is an existing restaurant established on the property called Thelma's Family Restaurant and Bakery.
EAST	The adjacent parcel to the east is an auto parts store operated by Car Quest.
SOUTH	The parcels to the south are single family residential and commercial uses. There is an existing custom fabrication and welding use located on Mohave Boulevard. This business is being conducted out of a single-family home.
WEST	The adjacent parcel to the west is a pet grooming use.

11.1.2 Observed Evidence of Past Uses of Adjoining Properties

Observations of adjoining sites providing indications of past use and activities, if any, are described below.

NORTH	Transportation as well as Educational Uses.
EAST	Medium Density Residential.
SOUTH	Single Family Residential Uses.
WEST	Medium Density Residential Uses.

11.1.3 Pits, Ponds or Lagoons on Adjoining Properties

During project site digital reconnaissance, Elevated Entitlements made the following observations about the presence of pits, ponds and lagoons on adjoining sites:

NORTH	None observed.
EAST	None observed.
SOUTH	None observed.
WEST	None observed.

11.2 OBSERVED PHYSICAL SETTING

Topography of the Property and Surrounding Area:	The Property is generally flat and is largely unpaved and undeveloped with no existing structures on site. The surrounding areas are developed with existing mostly residential uses.

12.0 EVALUATION

This section provides a summary overview of our Findings, Opinions, and Conclusions.

12.1 FINDINGS AND OPINIONS

Information gathered from reviews of existing data and a project site visit was evaluated to determine if RECs are present in connection with the Property. Based on this information, Elevated Entitlements made the following findings and developed the following opinions.

- The site is mostly undeveloped open space. Although the site is known to have had an oil well on it in the past according to our findings from The California Department of Conservation. The California Department of Conservation have determined that the plugging and abandonment of this site were fulfilled . The well was initially plugged on

June 09, 2005. And the well's final surface inspection was made and approved on March 23, 2009. There are no longer any potential risks for contamination from the well.

- During digital reconnaissance, Elevated Entitlements observed the adjacent sites from the Property or nearby public rights-of-way. The parcels to the north across the 105 Freeway is an educational institution, Los Angeles southwest Community College, Stella High Charter Academy and Middle College Highschool. The land to the south, east and west are residential uses. These properties did not have any significant material which would represent a REC

No other indications of RECs, HRECs or de minimis conditions were observed in connection with the adjacent properties that are likely to have affected the Property.

12.2 DATA GAPS

The federal AAI final rule [40 CFR 312.10(a)] and ASTM E1527-13 identify a "data gap" as the lack or inability to obtain information required by the standards and practices of the rule despite good faith efforts by the User.

Any data gaps resulting from the Phase I ESA described in this report are listed and discussed below.

Gap	Discussion
Facility Access Restrictions to Site Reconnaissance:	None.
Other Site Reconnaissance Restrictions:	None.
Data Gaps from Environmental Records Review:	None.
Data Gaps from Historical Records Review:	None.
Other Data Gaps:	None.

12.3 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of the property located at 1721 W. 120th street and east of Southwestern Ave. and west of S Normandie Dr. in Los Angeles, California, defined by APN 6079-022-081, the Property. Any exceptions to, or deletions from, this practice are described in this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Property.

However, this assessment has revealed no evidence of RECs in connection with the Property. No further investigation appears to be warranted at this time. The following ASTM E1527-13 Non-Scope Considerations were performed as part of this Phase I ESA:

12.4 NON-SCOPE CONSIDERATION

12.4.1 Lead Based Paint

Concern for lead-based paint (LBP) is primarily related to residential structures. The EPA's Final Rule on Disclosure of Lead-Based Paint in Housing (40 CFR Part 745) defines LBP as paint or other surface coatings that contain lead equal to or in excess of 1.0 milligram per square centimeter or 0.5 percent by weight.

The risk of lead toxicity in LBP varies based upon the condition of the paint and the year of its application. The U.S. Department of Housing and Urban Development (HUD) has identified the following risk factors:

- The age of the dwelling as follows: maximum risk is from paint applied before 1950.
- There is severe risk from paint applied before 1960.
- There is moderate risk from deteriorated paint applied before 1970.
- There is slight risk from the paint that is intact but applied before 1977.
- The condition of the painted surfaces.
- The presence of children and certain types of households in the building.
- Previously reported cases of lead poisoning in the building or area.

Construction Date	Residential (Yes/No)	Observed Condition of Painted Surfaces
	No	Slight risk from paint that is intact.
	No	Moderate risk from deteriorated paint.

12.4.2 Asbestos

Asbestos can be found in many applications, including sprayed-on or blanket-type insulation, pipe wraps, mastics, floor and ceiling tiles, wallboard, mortar, roofing materials, and a variety of other materials commonly used in construction. The greatest asbestos-related human health risks are associated with friable asbestos, which is ACM that can be reduced to powder by hand pressure. Friable asbestos can become airborne and inhaled, which has been associated with specific

types of respiratory disease. The manufacturing and use of asbestos in most building products was curtailed during the late 1970s.

Elevated Entitlements makes no warranty as to the possible existence or absence of inaccessible materials or to their evaluation with respect to asbestos content. There is no structures on this lot.

12.4.3 Polychlorinated Bipheynyls (PCBS) in Caulk

PCBs belong to a broad family of man-made organic chemicals known as chlorinated hydrocarbons. The commercial production of PCBs started in the late 1920s until their manufacture was banned in 1979 because of the possible carcinogenic risk to human health and to the environment. PCBs have a range of toxicity and vary in consistency from thin, light-colored liquids to yellow or black waxy solids. Due to their non-flammability, chemical stability, high boiling point, and electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment; as plasticizers in paints, plastics, and rubber products; in pigments, dyes, and carbonless copy paper; and many other industrial applications. The PCBs used in these products were chemical mixtures made up of a variety of individual chlorinated biphenyl components, known as congeners. Most commercial PCB mixtures are known in the United States by their industrial trade names. The most common trade name is Aroclor.

Prior to the 1979 ban, PCBs entered the environment during their manufacture and use in the United States. Although no longer commercially produced in the United States, PCBs may be present in products and materials such as caulk produced before the 1979 PCB ban. Today PCBs associated with building demolition or renovation projects can still be released into the environment from illegal or improper dumping of PCB wastes; disposal of PCB-containing consumer products into municipal or other landfills not designed to handle hazardous waste and through improper containment during removal. Due to the lot having no structures, no further assessment of PCBs in caulk is warranted.

12.4.4 Radon

Radon is a colorless, tasteless radioactive gas with an EPA-specified action level of 4.0 PicoCuries per liter of air (pCi/L) for residential properties. Radon gas has a very short half-life of 3.8 days. The health risk potential of radon is primarily associated with its rate of accumulation within confined areas near or in the ground, such as basements, where vapors can readily transfer to indoor air from the ground through foundation cracks or other pathways. Large, adequately ventilated rooms generally present limited risk for radon exposure. The radon concentrations in buildings and homes depend on many factors, including soil types, temperature, barometric pressure, and building construction (EPA, 1993). Elevated Entitlements reviewed regional data published by the EPA on average indoor radon concentrations in the vicinity of the Property (http://www.epa.gov/radon/zonemap.html).

EPA Radon Zones (w/Average Measured Indoor Radon

concentrations)		
Zone 1 – High (>4.0 pCi/L)	Zone 2 – Moderate (2 to 4 pCi/L)	Zone 3 – Low (<2 pCi/L)
	X	
Normally-occupied sub grade areas present? (i.e., basement apartments, offices, stores, etc.)		
No normally-occupied sub grade areas are present.		

The Property is located in Zone 2 and is considered to have medium potential for radon. To determine Property-specific radon levels, a radon survey would have to be conducted. However, because the Property is not developed and there are no normally-occupied sub grade areas, further investigation of indoor radon issues does not appear to be warranted.

12.4.5 Flood Zones

According to the Physical Setting summary portion of the EDR report, the Property is not located within a 500-year or 100-year flood plain. Elevated Entitlements also searched the FEMA flood plain map service at www.msc.fema.gov identified the Property as located within Flood Zone X: an area of minimal flood hazard.

13.0 REFERENCES

ASTM International, 2015, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, Designation E 2600-15.

ASTM International, 2013, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-13.

California Department of Toxic Substances Control, 2021, Envirostor

California State Department of Water Resources Control Board, 2021, GeoTracker

California Geological Survey Earthquake Fault Zones and Seismic Hazard Zones.

California State University Northridge, Geomorphic Regions of California, https://www.csun.edu/science/sierras/geomorphic-regions/index.html

Environmental Data Resources, Inc. (EDR), EDR Radius Map, Inquiry Number 6292494.2s.

EDR Radius Map with Geocheck, Inquiry Number 6292494.2s0.

References
June 29, 2023

Certified Sanborn Map Report, Inquiry Number 6292494.3.

Historical Topographic Map Report, Inquiry Number 6292494.4.

Aerial Photo Decade Package, Inquiry Number 6292494.8.

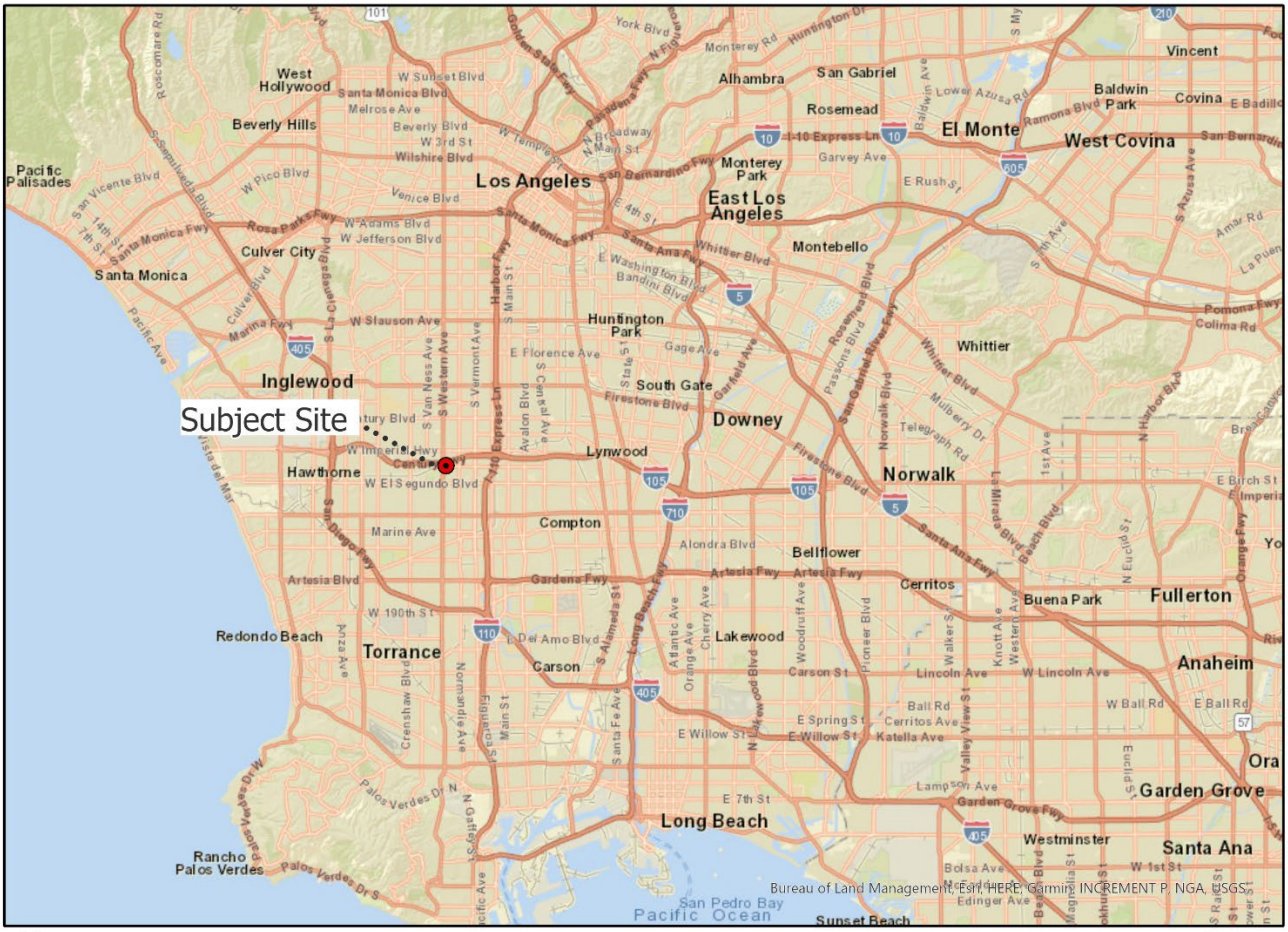
City Directory Image Report, Inquiry Number 6292494.5.

United States Environmental Protection Agency (EPA), 2021, EPA Radon Zones https://www.epa.gov/radon/find-information-about-local-radon-zones-and-state-contact-information

United States Federal Emergency Management Agency (FEMA), 2021, FEMA Flood Zone Map Service

Appendix A FIGURES

A.1 FIGURE 1: PROPERTY VICINITY MAP



N

1721 W. 120th St Los Angeles CA 90047

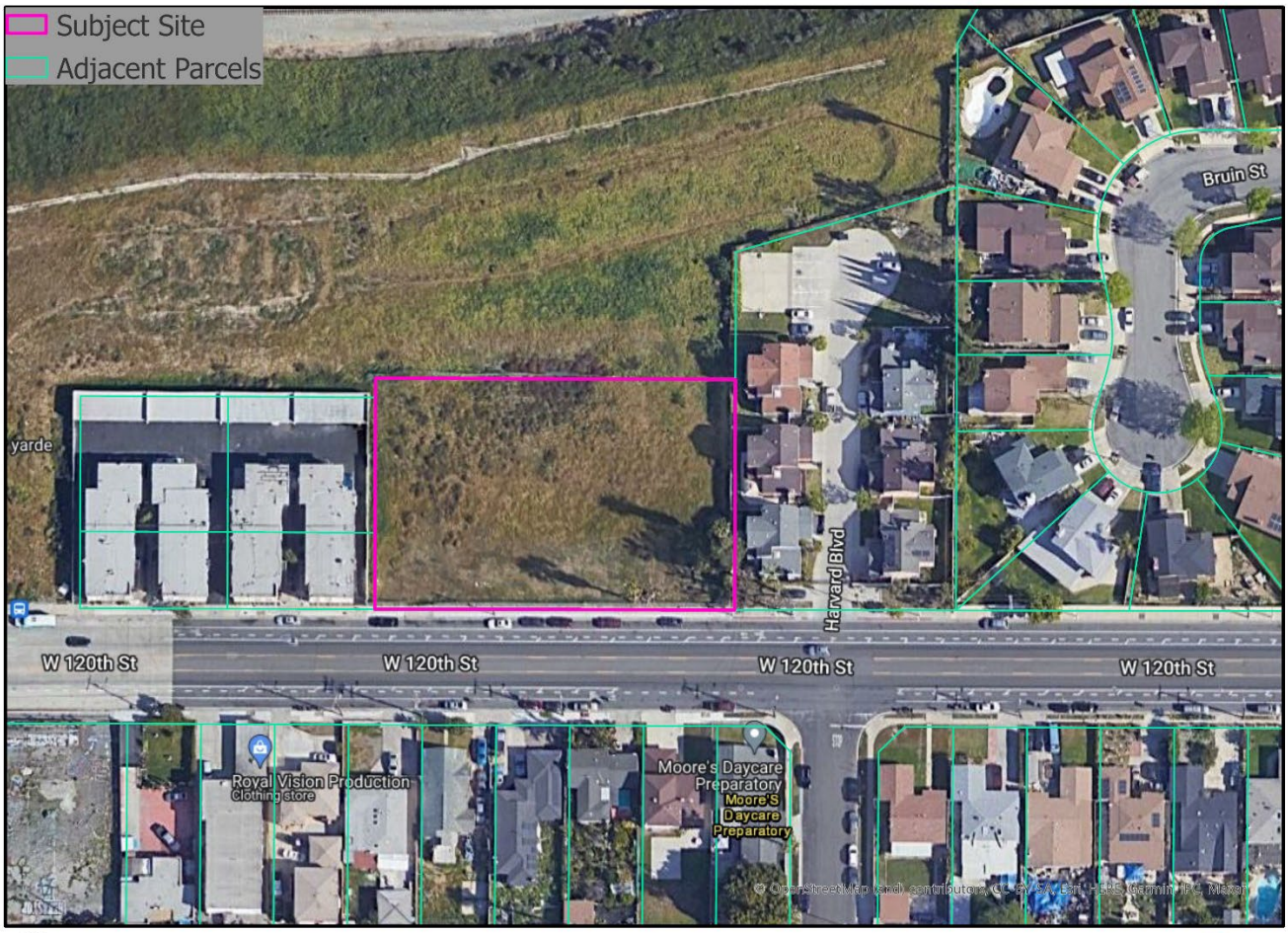
2 1 0 2 4 6 8 Miles

Figure 1: Property Vicinity Map

Author: Ramiro Gomez
Date: 4/10/2023
Data: LA County GIS

ELEVATED ENTITLEMENTS

A.2 FIGURE 2: PROPERTY LOCATION MAP



Appendix B AGENCY RECORDS

Appendix C GOOGLE STREET VIEW PHOTOS

Photo 1: Street view facing North toward 1721 W. 120th St.

Photo 2: Street view facing Northwest toward 1721 W. 120th St.

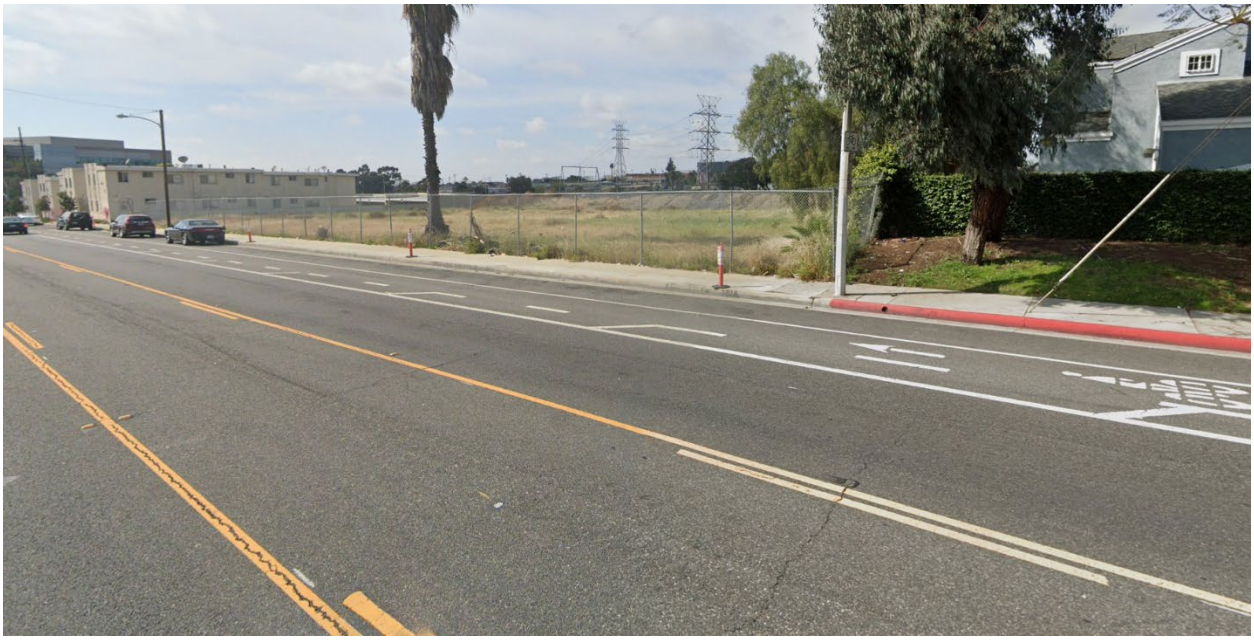


Photo 3: Street view facing northwest at the residential uses around the property on 1721 E. 120th St.

Photo 4: Street view facing southeast at the property and the behind uses from S Western Ave.

ORO ENGINEERING CORPORATION

60 HACKAMORE LANE, BELL CANYON, CA. 91307 (818) 887-4422

February 28, 2017

Mr. Bill Little
P. O. Box 1380
Los Angeles, Ca. 90078

Re: 1719 W. 120TH St., Los Angeles, Ca.

Mr. Bill Little:

Dear Mr. Little:

Oro Engineering has drilled 5 holes on the above referenced property at random locations as shown on the attached Location of Test Holes drawing. The purpose of our work was to visually observe the soil material derived from each of the test holes to ascertain if there is any indication of oil or organic material in the soil material excavated from each of the test holes.

We found each of the test holes to contain only clean soil consisting of a brown clayey sand, medium moist, medium dense and moderaterly plastic. There was no indication of organic material from the test holes that were drilled and sampled.

If you have any questions on the above, please do not hesitate to contact me at our office.

Respectfully,

ORO ENGINEERING CORP.

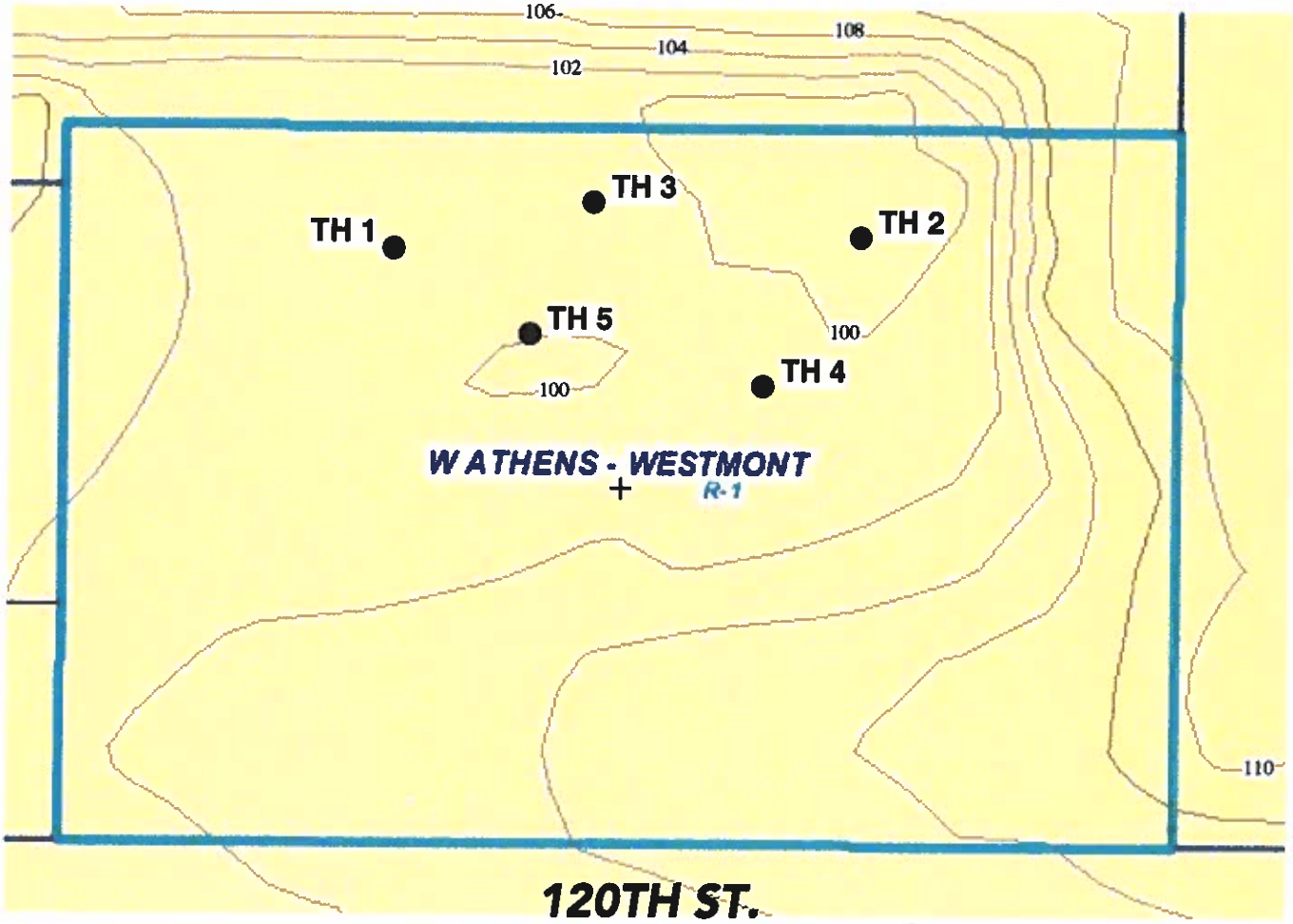
REGISTERED PROFESSIONAL ENGINEER
ROBERT J. SHUBECK
C.E. # 773
EXP. DATE
12/31/17
GEOTECHNICAL
STATE OF CALIFORNIA

Robert J. Shubeck
Geotechnical Engineer No. 773

1-22-19

LOCATION OF TEST HOLES
PROPOSED CONSTRUCTION

SCALE: 1"=40'



LEGEND: TP X: APPROXIMATE LOCATION OF BACKHOE EXCAVATED TEST HOLES

MAP FROM L.A. COUNTY
DEPT. OF REG. PLANNING

ORO
ENGINEERING CORPORATION

1719 120TH ST.
LOS ANGELES, CA.

ELEVATED ENTITLEMENTS

Memo

To:	Francis Pierce Environmental Hygiene	From:	Ramiro Gomez Elevated Entitlements
File:	1701 W 120th St., Los Angeles	Date:	November 29, 2022

Proposed Construction/Demolition Noise

The applicant proposes a subdivision of an existing lot into five (5) lots with a modification to reduce one lot to 46 feet from 50 feet. The project site is located at 1701 West 120th Street in Los Angeles. All construction activity would be conducted in accordance with the permissible hours of construction as stated in the County of Los Angeles Municipal Code (Code). Notwithstanding compliance with the Code, construction noise levels would result in a temporary and intermittent increase in ambient noise levels throughout the duration of the construction period. Construction of the Project would require the use of heavy equipment for paving and building construction. During construction there would be a different mix of equipment operating and noise levels would vary based on the amount of equipment in operation and the location of each activity.

As shown in Table 1, below, typical construction noise can reach 86 dBA Leq when measured at a reference distance of 50 feet from the center of construction activity. These noise levels would diminish rapidly with distance from the construction site at a rate of approximately 6 dBA per doubling of distance. For example, a noise level of 84 dBA Leq measured at 50 feet from the noise source to the receptor would reduce to 78 dBA Leq at 100 feet from the source to the receptor and reduce by another 6 dBA Leq to 72 dBA Leq at 200 feet from the source to the receptor.

Table 1 Typical Outdoor Construction Noise Levels

Construction Phase	Noise Levels at 50 Feet with Mufflers (dBA L_{eq})	Noise Levels at 60 Feet with Mufflers (dBA L_{eq})	Noise Levels at 100 Feet with Mufflers (dBA L_{eq})	Noise Levels at 200 Feet with Mufflers (dBA L_{eq})
Ground Clearing	82	80	76	70
Excavation, Grading	86	84	80	74
Foundations	77	75	71	65
Structural	83	81	77	71
Finishing	86	84	80	74

Reference: 1701 W 120th St., Los Angeles

The nearest sensitive receptors that would be subject to construction noise impacts include single-family residential uses to the east and south of the project site. In addition, there are exiting multi-family uses to the west of the project site. Construction noise impacts would be mitigated to less than significant levels with implementation of the following mitigation measures.

Mitigation Measures

NOISE-1: Construction activities shall be scheduled so as to avoid operating several pieces of equipment simultaneously, which causes high noise levels. The Project contractor shall use power construction equipment with state-of-the-art noise shielding and muffling devices to the extent feasible.

NOISE-2: Noise and ground borne vibration construction activities whose specific location on the site may be flexible (e.g., operation of compressors and generators, cement mixing, general truck idling) shall be conducted as far as possible from the nearest noise- and vibration-sensitive land uses, and natural and/or manmade barriers (e.g., intervening construction trailers) shall be used to screen propagation of noise from such activities towards these land uses to the maximum extent possible.

NOISE-3: A construction site notice shall be provided that includes the job site address, permit number, name and phone number of the contractor and owner or owner's agent, hours of construction allowed by code, and City telephone numbers where violations can be reported. The notice shall be posted and maintained at the construction site prior to the start of construction and displayed in a location that is readily visible to the public.

South Central Coastal Information Center
California State University, Fullerton - Department of Anthropology MH-426
800 North State College Boulevard
Fullerton, CA 92834-6846
(657) 278-5395 / FAX (657) 278-5542
sccic@fullerton.edu
California Historical Resources Information System
Serving Los Angeles, Orange, San Bernardino and Ventura Counties

Project Review / Quick Check** Date: June 3, 2019

Lead Agency (Name & billing address): County of Los Angeles, Department of Regional Planning

320 W. Temple Street, 13th Floor, Los Angeles, CA 90012

Case Planner: Lynda Hikichi Phone 213-974-6433

Email address to send results and invoice lhikichi@planning.lacounty.gov / bakshconstructioninc@hotmail.com

USGS 7.5' Quad: Inglewood Permit/Project #: TR071251

Project Address: 1701 W. 120th Street, West Athens-Westmont (APN 6079-022-081)

Always attach a map (either a 7.5' USGS Topographic Quadrangle or similar map) that clearly indicates project area location. APN and aerial maps may be added in addition to – but not in place of - a required map. Please describe the current project area conditions in addition to providing a brief project description. If any buildings or structures (45 years and older) are within the project area, please note the age of the resource and how it will be affected. How has the project area been utilized in the past? If more space is needed, add an additional sheet. Please do not delete any of the information or instructions from this form.

The 120th Street project is a proposed 5-lot subdivision to create five single-family residential lots on 38,154.6 square feet (0.876 acre). The project site is located at 1701 W. 120th Street along the northern side of W. 120th Street, east of Western Avenue and west of Normandie Avenue. The project site is currently vacant but the Property Appraisal Records indicate that the property was used for "oil" and "oil lifts" were present on the project site.

20309.6340

Project Review / Quick Check Summary

/ / The project area has been surveyed by a qualified cultural resource consultant and cultural resources were found / were not found.

/ / The project area was last surveyed in_____.

* The project area has not been surveyed by a qualified cultural resource consultant.

* The archaeological sensitivity of the project site is known / unknown.

/ / Based upon the known archaeological sensitivity of the surrounding area, prehistoric or historic cultural resources may be present within the project site.

* Current surface conditions appear / do not appear to allow for an adequate survey of potential surface or sub-surface cultural artifacts.

/ / The project area appears to contain built-environment resources that are 45 years old or older.

/ / Other findings:

RECOMMENDATIONS for Permit/Project # 20309.6340

/ / A Phase I * archaeological survey should be done by a professional archaeologist prior to approval of project plans.

/ / An architectural historian should evaluate the built-environment of the project site for local, state, or national significance prior to the approval of project plans.

/ / The effects of this project on recorded resources needs to be further evaluated by a qualified cultural resource consultant prior to the approval of project plans.

/ / A professional archaeologist should be retained to monitor* any ground disturbing activities.

X No archaeological work is needed prior to approval of the project plans. However, customary caution and a halt-work condition should be in place for all ground disturbing activities. In the event that cultural resources are encountered, all work within the vicinity of the find should stop until a professional archaeologist can be retained to assess such finds and make recommendations. Project personnel should not attempt to excavate any finds.

/ / Other recommendation (see below)

ADDITIONAL RECOMMENDATIONS OR COMMENTS:

The subject property appears to have previously contained an oil field.

* Phase I survey, and archaeological monitoring should include a complete records search, field evaluation, and a final report with results and recommendations.

** Quick Checks do not review built-environment resources adjacent to the project site or in the area-of-potential-effect (APE). Only a complete records search would satisfy this requirement and is billed at a different rate. Call the office for a current rate schedule.

Date completed: _____

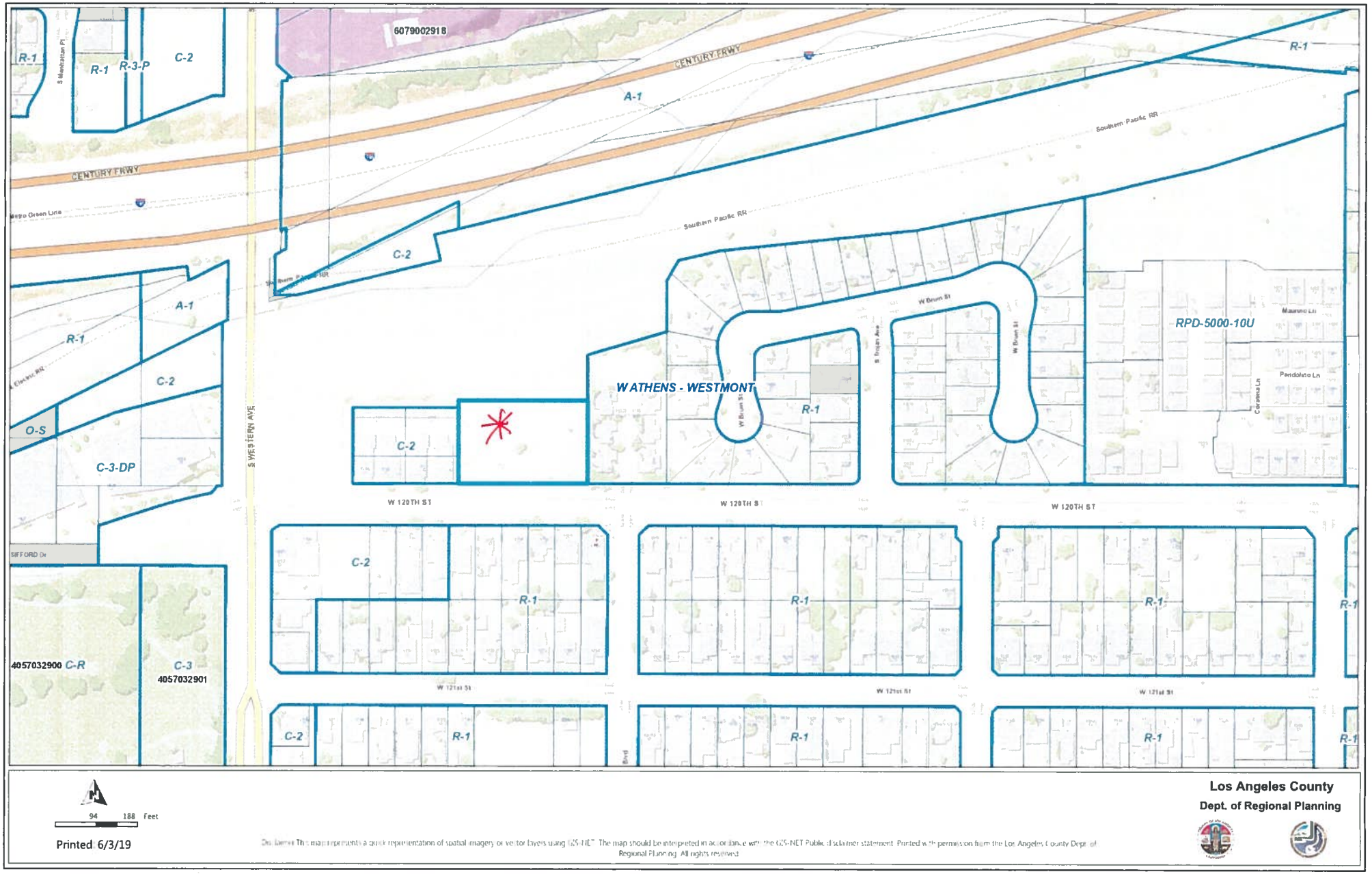
Signature: _____
Stacy St. James, Coordinator

Invoice # 6/26/19
20309.6340

PROJECT REVIEWS / QUICK CHECKS

By Memorandum of Agreement (MOU) only

These reviews were developed as a way for **city** and **county planners** to assess the potential for cultural resources in their preliminary planning or permit process while providing land-owners and/or developers with the earliest possible notice of the potential presence of cultural remains that may have special considerations as required by local, state, and federal laws. **These reviews were never intended to replace a complete Records Search where the cultural resource sensitivity of the project site and the area of potential effect is reviewed.** Projects directed by cities or counties that require Federal permits or Federal funding by other government agencies (such as HUD, FHA, OHP, Army Corps of Engineers, etc.) **are not included in the Quick Check review process and require a full records search.** The fee for the Quick Check is $75.00. The review is limited to the project boundaries only and does not provide information or recommendations for any property beyond the boundaries of the area being reviewed. Projects with non-contiguous boundaries or multiple locations may result in separate summaries and recommendations and may be processed and billed as separate searches. Failure to pay for services rendered under this agreement may result in denial of service for this and all other services provided by this office.



94 188 Feet

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Los Angeles County
Dept. of Regional Planning