Rincon Consultants, Inc.

2215 Faraday Avenue, Suite A
Carlsbad, California 92008

760 918 9444

info@rinconconsultants.com
www.rinconconsultants.com

Novemeber 30, 2023
Project No: 20-10438

Steve L'Hommedieu, Project Proponent
ARCO Construction Company, Inc.
900 North Rock Hill Road
St. Louis, Missouri 63119

Subject: Project No. PDS2021-MUP-85-053W2 (Bradley Court Convalescent Center Expansion Project) Greenhouse Gas Memorandum

Dear Mr. L'Hommedieu:

This memorandum assesses climate change impacts by quantifying greenhouse gas (GHG) emissions associated with the construction and operation of the Bradley Court Convalescent Center Expansion Project (Project No. PDS2021-MUP-85-053W2; herein referred to as the "proposed project" or "project") and evaluating against appropriate GHG screening criterion.

Project Location and Description

The Bradley Court Convalescent Center Expansion Project is located on parcel APN 387-142-36-00 at 675 East Bradley Avenue in the Lakeside Community Plan Area within unincorporated San Diego County. The first proposed building is on a vacant parcel north of the existing Convalescent Center and the second proposed building is between the two existing building south of the project site. The project regional location and vicinity are shown in Figure 1 and Figure 2.

The project would construct a new 26,515 square-foot (sf) assisted living building with 66 resident beds, and a new 11,048 sf 31-bed skilled nursing building. The total project site would include four buildings with 87 skilled nursing beds and 66 transitional care beds, for a total of 153 beds. The existing parking area would be redesigned to accommodate the proposed buildings and provide 71 parking spaces and three bicycle spaces. See Figure 3 for the project site plan.

The Transitional Care Building, located on the northern portion of the site, would be served by packaged terminal air conditioning (PTAC) units and split systems. The Skilled Nursing Building, located on the southern portion of the site, would be served by rooftop heating, ventilation, and air conditioning (HVAC) units. The project would include a 150-kilowatt generator with enclosure to the southeast location of the existing generator, which would be removed. The project would also include a can wash; no mechanical equipment would be associated with the can wash. A can wash cleans the interior and exterior surfaces of beverage and food cans.

The site is subject to the Lakeside Community Design Review, and the General Plan Category Village, Land Use Designation Village Residential (VR-24). Zoning for the site is Urban Residential (RU) with special designator "C". Access would continue to be provided from East Bradley Avenue. According to the Initial Consultation Checklist provided by the County, to process the project application a Major Use Permit Modification is required.

The proposed development would require site preparation and grading. An estimated 4,279 cubic yards of soil would be cut and recompacted on site. An additional estimated 4,909 cubic yards of fill would be imported to the project site. Project construction would begin in February 2024.

Project Sustainability Features

Project design features that would result in reduced GHG emissions include low-flow plumbing fixtures, and a high-reflectivity cool roof. Additional GHG reductions would result from the project's incorporation of Title 24 energy standards.

The project's Planting Plan indicates landscaping along the frontage of East Bradley Avenue, as well as minor strips of landscaping within the site and boundary. Consistent with the County Water Conservation and Landscaping Ordinance, the project would implement automatically controlled efficient system and use of native plant species and non-invasive drought tolerant/low water use plants in landscaping plan.

The County requires recycling of 90 percent of inert and 65 percent of all other materials from construction projects, per County Ordinance Section 68.511 through 68.520 (*Diversion of Construction and Demolition Materials from Landfill Disposal*). The project would comply with County ordinances. Project operations and waste management methods would be consistent with the County's Strategic Plan to Reduce Waste (2017) through the support of commercial composting programs to reduce organic waste and comply with established waste diversion requirements.

Methodology

Project emissions estimates were calculated using California Emissions Estimator Model (CalEEMod), version 2022.1. CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. The calculation methodology and input data used in CalEEMod can be found in the CalEEMod User's Guide Appendices (CAPCOA 2022). The analysis reflects the construction and operation of the project as described in *Project Location and Description*. The input data and subsequent construction and operation emission estimates for the proposed project are discussed below. CalEEMod reports and calculations are included in Attachment 1 to this memorandum.

Construction Emissions

Construction of the project would generate temporary GHG emissions primarily from operation of construction equipment onsite, from vehicles transporting construction workers to and from the project site, and heavy trucks to import earth materials onsite. Construction equipment used for site preparation and grading typically generate the greatest amount of construction emissions.

The project applicant provided the construction schedule, which states construction is anticipated to commence in February 2024 and be completed by April 2025 (approximately 14 months total). Proposed construction phases and associated durations include the following:

- Site Preparation (two months)
- Grading (two months)
- Building Construction (approximately 12 months)
- Paving (one month)
- Architectural Coating (one month)

Emissions associated with the construction period were estimated in CalEEMod based on the projected maximum amount of equipment that would be used onsite at any given time during construction activities.

Proposed development would require site preparation and grading, building construction, paving, and architectural coating. A total of 4,279 cubic yards of soil would be graded and recompacted on the project site and an additional 4,909 cubic yards of fill would be imported. Construction is expected to occur over 14 months, based on applicant provided construction schedule, with the project completion scheduled for April 2025.

Operational Emissions

CalEEMod calculates operational emissions from the project, which include carbon dioxide (CO_2), nitrogen oxide (N_2O), and methane (CH_4). For mobile sources, CO_2, N_2O, and CH_4 emissions from vehicle trips to and from the site were quantified using CalEEMod. Trip generation rates were sourced from the Transportation Analysis prepared by Linscott, Law & Greenspan, Engineers (Linscott, Law & Greenspan, Engineers 2022).The trip generation rates in CalEEMod were adjusted to be consistent with the Transportation Analysis' estimated 252 daily vehicle trips generation. The project would include three parking spaces with electric vehicle (EV) chargers, which would reduce GHG emissions annually through encouraging the use of electric vehicles over gasoline-powered vehicles. The calculations and assumptions for reducing GHG emissions from the proposed three EV charging stations are included in Attachment 1. Based on CalEEMod's operational forecast factors, San Diego Gas & Electric CO_2e intensity factor for the 2026 buildout year would be approximately 45.10 pounds per megawatt-hour (lb/MWh). Converting lb/MWh to MT of CO_2e, the project electricity emissions factor would be 0.02 MT of CO_2e. Based on CalEEMod default assumptions, gasoline-fueled cars would emit 262 grams of CO_2e per mile, and the average electric fuel economy for electric vehicles is 0.25 kilowatt-hour (kWh) per mile. It is assumed that electric vehicles would charge five hours a day with a Level 2 charging station, which charges at a rate of 25 miles per hour. Therefore, one EV charging station would reduce approximately 39,125 vehicle miles traveled (VMT) annually.

This analysis estimates 72 trees and 264 plants would be implemented throughout the project site and would sequester GHG emissions. The CalEEMod 2022.1 utilizes i-Tree Planting Calculator website to

determine the changes in GHGs from tree planting and/or removal over the project lifetime. The website considers the project's location, electricity emission factors, tree species and diameter at breast height, and number of trees to determine the environmental benefits from tree planting. Based on the preceding information and report summary from i-Tree, the amount of sequestration, electricity, and fuel saved were inserted into CalEEMod to estimate annual GHG reductions for the proposed project (i-Tree 2023). The proposed project is assumed to be operational in 2026. Tree assumptions and data are included in Attachment 1.

Significance Screening Levels

The vast majority of projects do not generate sufficient GHG emissions to directly influence climate change. However, physical changes caused by a project can contribute incrementally to cumulative effects that are significant, even if individual changes resulting from a project are limited. The issue of climate change typically involves an analysis of whether a project's contribution towards an impact would be cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines, Section 15064[h][1]).

The adopted CEQA Guidelines provide regulatory guidance on the analysis and mitigation of GHG emissions in CEQA documents, while giving lead agencies the discretion to set quantitative or qualitative thresholds for the assessment and mitigation of GHGs and climate change impacts. According to the CEQA Guidelines Section 15183.5, projects can tier from a qualified GHG reduction plan, which allows for project-level evaluation of GHG emissions through comparison of the project's consistency with the GHG reduction policies included in a qualified GHG reduction plan.

The County of San Diego has developed a Climate Action Plan (CAP) to implement climate actions that reduce GHG emissions and establish actions to achieve a goal of net zero carbon emissions by 2045. The CAP establishes emission reduction targets of 43.6 percent emissions reductions below 2019 levels by 2030 and 85.4 percent below 2019 levels by 2045. This CAP sets GHG reduction targets and a net zero goal in alignment with the 2022 Scoping Plan. This CAP is in the draft phase and has not been officially adopted by the County as of this writing. Therefore, the CAP is not relied on as a qualified GHG reduction plan. However, the the CAP's GHG inventory assists in setting the project-specific GHG threshold, described below.

In absence of a qualified GHG reduction plan or numeric threshold, a project-specific GHG efficiency threshold can be calculated to represent the rate of emissions reduction necessary for the proposed project to meet the County's 2030 reduction targets. The project is estimated to be operational by 2026. The 2026 GHG emissions target is an efficiency threshold generated by dividing the County of San Diego's GHG emissions target for 2026 by the County's service population projections (residents plus employees) for that year. Equation 1 details how the 2026 GHG emissions target and efficiency threshold were calculated.

Equation 1

$$Service\ Population\ Threshold = \frac{2026\ Emissions\ Goal}{2026\ Population + 2026\ Employment}$$

$$Service\ Population\ Threshold = \frac{2{,}156{,}187\ MT\ CO_2e}{490{,}794\ Population + 165{,}047\ Employment}$$

$$Service\ Population\ Threshold = 3.29\ MT\ CO_2e\ per\ service\ population$$

Where:

Service Population Threshold = Average emissions efficiency: 3.29 MT of CO_2e per service population per year.

2026 Emissions Goal = 2,156,187 MT of CO_2e per year (Interpolated between 2019 Baseline Inventory Emissions and 2030 CAP Reduction Target (43.6% reduction from 2019 levels).

2026 Unincorporated San Diego Population = 490,794 persons (Interpolated between 2025 population forecast and 2030 population forecast – 2024 Draft Climate Action Plan).

2026 Unicorporated San Diego Jobs = 165,047 jobs (Interpolated between 2025 jobs forecast and 2030 jobs forecast – 2024 Draft Climate Action Plan)

The service population threshold for the proposed project is 3.29 MT CO_2e per service population in the year 2026. Therefore, if GHG emissions from the proposed project exceed the threshold of 3.29 MT CO_2e per service population, there would be a potential impact.

Project Impact Analysis

Construction and operation of the project would generate GHG emissions. This analysis considers the combined impact of GHG emissions from both construction and operation.

Construction Emissions

Project construction is estimated to take 14 months, starting in February 2024. As shown in Table 1, construction activity for the project would generate an estimated 403 MT CO_2e. When amortized over a 30-year period,[1] , construction of the project would generate about 13.4 MT CO_2e per year.

Table 1 Estimated Construction Emissions of Greenhouse Gases

Year	Emissions (MT of CO_2e)
2024	354
2025	49
Total	**403**
Amortized over 30 years	**13.4**

MT = metric tons; CO_2e = carbon dioxide equivalents

Notes: Emissions modeling was completed using CalEEMod. See Attachment 1 for modeling results.

Combined Construction, Stationary, and Mobile Source Emissions

[1] Consistent with the industry standard, total construction GHG emissions resulting from a project were amortized over 30 years and added to operational GHG emissions to account for their contribution to GHG emissions over the lifetime of the project (SCAQMD 2009).

Table 2 combines the amortized construction (Table 1), operational, and mobile GHG emissions associated with the project. The annual emissions would total approximately 266 MT CO_2e or 2.75 MT CO_2e per service population per year, which would not exceed the 2026 project-specific efficiency threshold of 3.29 MT CO_2e per service population per year. Therefore, impacts would be less than significant.

Table 2 Combined Annual Emissions

Emission Source	Annual Emissions (MT of CO_2e per year)
Construction	13.4
Operational	**253**
Area	2
Energy	41
Mobile	235
Stationary	4
Solid Waste	28
Water	3
Refrigerant	<1
Electric Vehicles	(30)
Vegetation	(34)
Total Emissions	**266.4**
Project Service Population[1]	**97**
MT of CO_2e per Service Population	**2.75**
Interpolated 2026 Project-Specific Threshold	**3.29**
Threshold Exceeded?	**No**

MT = metric tons; CO_2e = carbon dioxide equivalents

[1]The project would include an assisted living building with 66 resident beds, and a new 31-bed skilled nursing building.

Notes: Parenthetical values are negative numbers and are subtracted from the total emissions rather than added. Emissions modeling was completed using CalEEMod. See Attachment 1 for modeling results.

Consistency with Applicable GHG-Reduction Plans

There are numerous State plans, policies, and regulations adopted to reduce GHG emissions. The principal state plan and policy is Senate Bill (SB) 32 and the California Global Warming Solutions Act of 2006. The quantitative goal of SB 32 is to reduce GHG emissions to 40 percent below 1990 levels by 2030. In 2022, the State passed AB 1279, which declares the State would achieve net-zero GHG emissions by 2045 and would reduce GHG emissions by 85 percent below 1990 levels by 2045. Pursuant to the SB 32 goal and AB 1279, the 2022 Scoping Plan was created to outline goals and measures for the State to achieve the reductions. Additionally, SANDAG adopted *San Diego Forward: 2021 Regional Plan* in 2021, and the County of San Diego General Plan provides goals and policies to reduce GHG emissions.

2022 Scoping Plan

The latest iteration of the Scoping Plan is the 2022 Scoping Plan, which focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the state's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities. The 2022 Scoping Plan's strategies that apply to the proposed project include the following:

- Reducing fossil fuel use, energy demand and vehicle miles traveled (VMT);
- Building decarbonization; and
- Maximizing recycling and diversion from landfills.

The proposed project would be consistent with these goals through project design that would be consistent with latest California 2022 Energy Code. The proposed building structures would incorporate PV provisions consistent with the requirements for residential land uses. In addition, the project would include EV charging parking spaces consistent with the latest CALGreen Standards. The proposed project would be served by San Diego Gas & Electric, which is required to increase its renewable energy procurement in accordance with SB 100 targets. The proposed project is served by San Diego Metropolitan Transit; the project site is a quarter mile of four other bus stops along Route 833. In addition, the project site is located within a half mile of existing residential and commercial uses, which could encourage alternative modes of transportation such as walking, bicycling and public transit. In addition, the project would be consistent with the County requirement of recycling 90 percent of inert and 65 percent of all other materials from construction projects, per County Ordinance Section 68.511 through 68.520 (*Diversion of Construction and Demolition Materials from Landfill Disposal*). Therefore, the proposed project would not conflict with the 2022 Scoping Plan.

San Diego Forward: 2021 Regional Plan

The 2021 Regional Plan provides a framework for meeting goals with coordinated land use and transportation planning strategies. Implementation actions related to projects, policies and programs would confirm SANDAG's commitment to fully realizing the strategies in the 2021 Regional Plan. The Sustainable Communities Strategy (SCS) envisions a transportation system that is fast, fair, and clean, as well as a region that is resilient to economic and environmental changes. The 2021 Regional Plan polices are built around three core strategies:

- **Invest In a Reimagined Transportation System**. Build a network and fund services that include multimodal roadways; an expanded network of fast, frequent, and low-cost transit; 21st century technology that manages the entire transportation system and connects people to on-demand services; and zero-emissions options for vehicles and micromobility.
- **Incentivize Sustainable Growth and Development**. Collaborate with local jurisdictions and fund programs to accelerate housing production while also addressing equity, climate resilience, and mobility.
- **Implement Innovative Demand and System Management**. Reduce solo driving and congestion through increased remote work, carsharing, vanpooling, pricing strategies and parking management programs that leverage partnerships and technology.

The proposed project would add 97 additional bedrooms for assisted living in the Lakeside Community Planning Area. The proposed project would be consistent with the SANDAG growth projections.

Residents of the project are expected to be existing residents in the region that would be relocated to the site, therefore the project would not conflict with the region's future employment and housing needs. This project is not a transportation project that would affect the region's transportation systems and should not increase transportation demands within the local area. The project is approximately 120 feet from the nearest transit bus stop, and 0.25 miles from four other bus stops. Therefore, the project would not induce substantial population and would not conflict with or obstruct implementation of the 2021 Regional Plan.

San Diego County General Plan

The General Plan provides a consistent framework for land use and development decisions consistent with an established community vision. As the equivalent of a local "constitution" for land use and development, the General Plan's diagrams, goals, and policies form the basis for the County's zoning, subdivision, and infrastructure decisions. The General Plan Conservation and Open Space, and Land Use Element provide the following goals, policies and objectives pertaining to greenhouse gas emissions that are relevant to this analysis:

COS-14.3 **Sustainable Development.** Require design of residential subdivisions and nonresidential development through "green" and sustainable land development practices to conserve energy, water, open space, and natural resources.

COS-15.4 **Title 24 Energy Standards**. Require development to minimize energy impacts from new buildings in accordance with or exceeding Title 24 energy standards.

LU-5.1 **Reduction of Vehicle Trips within Communities.** Incorporate a mixture of uses within Villages and Rural Villages and plan residential densities at a level that support multi-modal transportation, including walking, bicycling, and the use of public transit, when appropriate.

The project would comply with the latest Title 24 Energy Standards that reduces wasteful, expensive, inefficient or unnecessary use of energy. The project would be subject to CALGreen, which requires a 20 percent increase in indoor water use efficiency and use of indoor water-efficient irrigation systems. In addition, the project would be developed approximately 120 feet east of the nearest bus stop, which would provide alternative modes of transportation that could potentially reduce vehicle trips and vehicle miles traveled. Therefore, the project would be consistent with goals and policies in the San Diego County's General Plan to reduce GHG.

Conclusion

A project-specific efficiency threshold was calculated to represent the rate of emissions reduction necessary for the proposed project to meet the County's reduction targets. GHG emissions from project construction and operations would generate 266 MT CO_2e per year or 2.75 MT CO_2e per service population per year, which would be below the 2026 project-specific GHG efficiency threshold of 3.29 MT CO_2e. In addition, the proposed project would comply with the plans, policies, regulations and GHG reduction actions/strategies outlined in the 2022 Scoping Plan, 2021 Regional Plan, and the San Diego County General Plan. The project would be consistent with the 2021 Regional Plan since the anticipated residents would be located within the region and would not increase population growth and housing needs. Consistency with the plans, policies, regulations and GHG reduction actions/strategies would

reduce the project's incremental contribution of GHG emissions. Therefore, the proposed project's GHG impacts would be less than significant. .

If you have any questions, please do not hesitate to email us at arojas@rinconconsultants.com or call Aaron Rojas at 951-346-1948.

Sincerely,

Rincon Consultants, Inc.

Aaron Rojas
Environmental Planner

Deanna Hansen
Principal

Attachments

Figures

Attachment 1 CalEEMod Outputs and Calculation Sheets

References

California Air Pollution Control Officers Association (CAPCOA). .2022. User's Guide for CalEEMod Version 2022.1. https://www.caleemod.com/documents/user-guide/01_User%20Guide.pdf

California Air Resources Board (CARB). 2022. 2022 Scoping Plan for Achieving Carbon Neutrality. December 2022. https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf

i-Tree. 2023. I-Tree Planting Calculator. https://planting.itreetools.org/ (accessed November 2023).

Linscott, Law & Greenspan. 2022. Transportation/Access Analysis Bradley Court Convalescent Center.

San Diego, County of. 2011. San Diego County General Plan: A Plan for Growth, Conservation, and Sustainability. August 2011. https://www.sandiegocounty.gov/content/dam/sdc/pds/docs/GP/GENERAL%20PLAN_April2022_PRINT.pdf (accessed June 2022).

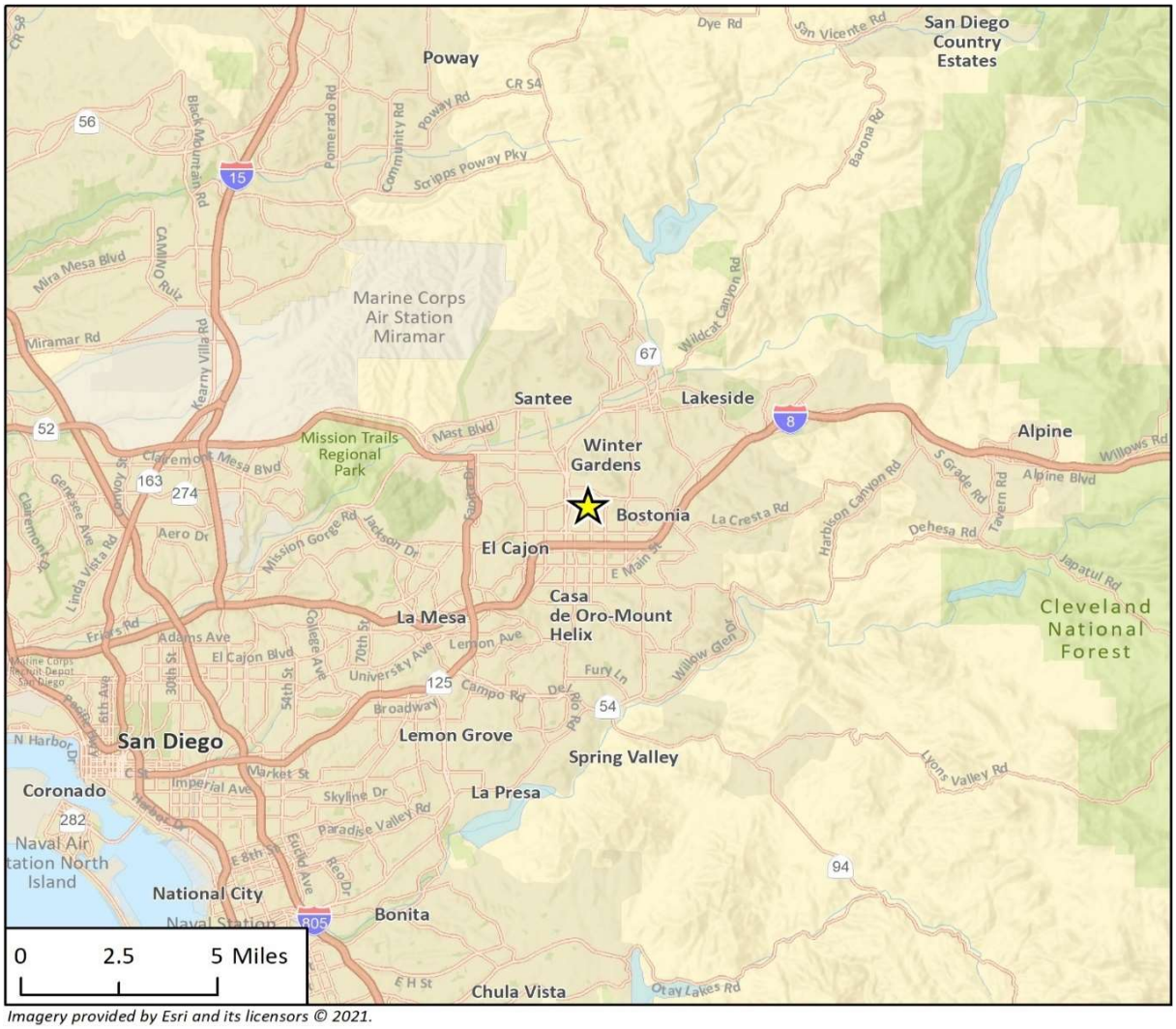
San Diego Association of Governments. 2021 Regional Plan. December 2021. https://www.sandag.org/-/media/SANDAG/Documents/PDF/regional-plan/2021-regional-plan/final-2021-regional-plan/final-2021-regional-plan-flipbook.pdf

_____. 2023. Draft 2024 Climate Action Plan. October 2023. https://engage.sandiegocounty.gov/hub-page/climate-action-plan

South Coast Air Quality Management District (SCAQMD). 2009. Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group 14. November 19, 2009. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf

Figures

Figure 1 Regional Location



Imagery provided by Esri and its licensors © 2021.

Project Location

N

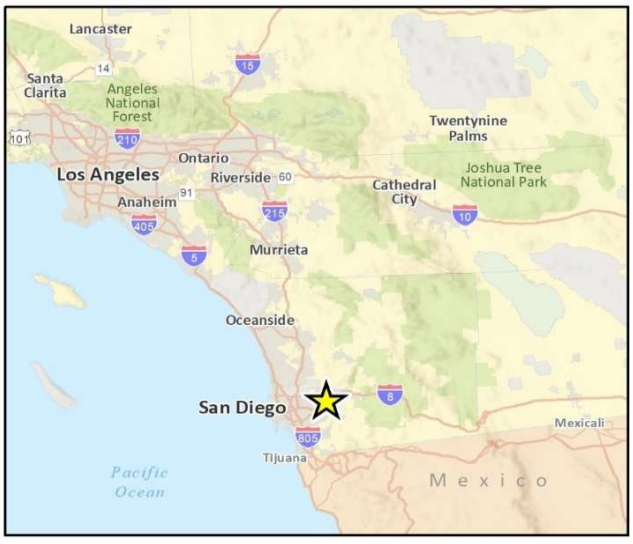
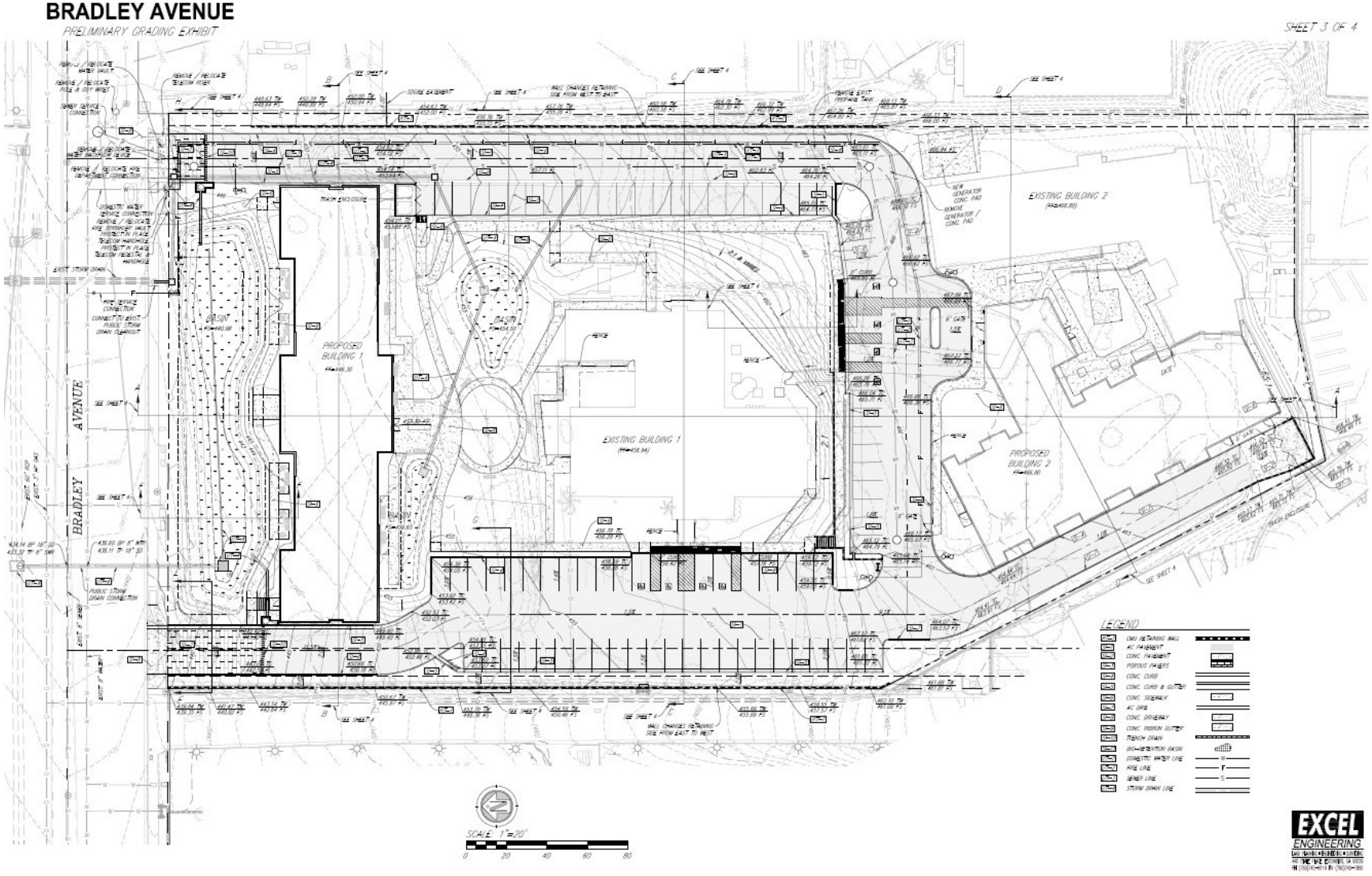


Figure 2 Project Location

Imagery provided by Microsoft Bing and its licensors © 2021.

Figure 3 Site Plan



Attachment 1

CalEEMod Outputs, EV Calculations, and i-Tree Data

Bradley Court Convalescent Center Expansion Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Bradley Court Convalescent Center Expansion Project
Construction Start Date	2/5/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	8.00
Location	675 E Bradley Ave, El Cajon, CA 92021, USA
County	San Diego
City	Unincorporated
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6533
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.20

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

Congregate Care (Assisted Living)	97.0	Dwelling Unit	6.06	37,563	0.00	0.00	97.0	—
Parking Lot	71.0	Space	0.64	28,400	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.4	58.2	60.9	0.09	2.53	27.6	30.1	2.33	13.8	16.1	—	11,129	11,129	0.47	0.33	7.82	11,247
Mit.	12.4	58.2	60.9	0.09	2.53	11.6	14.1	2.33	5.59	7.92	—	11,129	11,129	0.47	0.33	7.82	11,247
% Reduced	—	—	—	—	—	58%	53%	—	60%	51%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.4	55.0	53.3	0.08	2.39	26.8	29.2	2.20	13.6	15.8	—	9,478	9,478	0.40	0.24	0.14	9,561
Mit.	12.4	55.0	53.3	0.08	2.39	10.8	13.2	2.20	5.40	7.60	—	9,478	9,478	0.40	0.24	0.14	9,561
% Reduced	—	—	—	—	—	60%	55%	—	60%	52%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.75	8.91	10.9	0.01	0.39	3.66	4.05	0.36	1.75	2.10	—	2,113	2,113	0.09	0.08	1.18	2,139
Mit.	1.75	8.91	10.9	0.01	0.39	1.74	2.13	0.36	0.75	1.11	—	2,113	2,113	0.09	0.08	1.18	2,139
% Reduced	—	—	—	—	—	53%	48%	—	57%	47%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.32	1.63	1.99	< 0.005	0.07	0.67	0.74	0.07	0.32	0.38	—	350	350	0.02	0.01	0.19	354
Mit.	0.32	1.63	1.99	< 0.005	0.07	0.32	0.39	0.07	0.14	0.20	—	350	350	0.02	0.01	0.19	354
% Reduced	—	—	—	—	—	53%	48%	—	57%	47%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	12.4	58.2	60.9	0.09	2.53	27.6	30.1	2.33	13.8	16.1	—	11,129	11,129	0.47	0.33	7.82	11,247
2025	0.58	2.96	7.14	0.01	0.12	0.79	0.91	0.11	0.19	0.30	—	1,609	1,609	0.07	0.08	3.89	1,640
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	12.4	55.0	53.3	0.08	2.39	26.8	29.2	2.20	13.6	15.8	—	9,478	9,478	0.40	0.24	0.14	9,561
2025	0.57	3.01	6.68	0.01	0.12	0.79	0.91	0.11	0.19	0.30	—	1,566	1,566	0.07	0.09	0.10	1,594
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.75	8.91	10.9	0.01	0.39	3.66	4.05	0.36	1.75	2.10	—	2,113	2,113	0.09	0.08	1.18	2,139
2025	0.10	0.55	1.24	< 0.005	0.02	0.14	0.17	0.02	0.03	0.06	—	289	289	0.01	0.02	0.31	295

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.32	1.63	1.99	< 0.005	0.07	0.67	0.74	0.07	0.32	0.38	—	350	350	0.02	0.01	0.19	354
2025	0.02	0.10	0.23	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	47.9	47.9	< 0.005	< 0.005	0.05	48.8

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	12.4	58.2	60.9	0.09	2.53	11.6	14.1	2.33	5.59	7.92	—	11,129	11,129	0.47	0.33	7.82	11,247
2025	0.58	2.96	7.14	0.01	0.12	0.79	0.91	0.11	0.19	0.30	—	1,609	1,609	0.07	0.08	3.89	1,640
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	12.4	55.0	53.3	0.08	2.39	10.8	13.2	2.20	5.40	7.60	—	9,478	9,478	0.40	0.24	0.14	9,561
2025	0.57	3.01	6.68	0.01	0.12	0.79	0.91	0.11	0.19	0.30	—	1,566	1,566	0.07	0.09	0.10	1,594
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.75	8.91	10.9	0.01	0.39	1.74	2.13	0.36	0.75	1.11	—	2,113	2,113	0.09	0.08	1.18	2,139
2025	0.10	0.55	1.24	< 0.005	0.02	0.14	0.17	0.02	0.03	0.06	—	289	289	0.01	0.02	0.31	295
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.32	1.63	1.99	< 0.005	0.07	0.32	0.39	0.07	0.14	0.20	—	350	350	0.02	0.01	0.19	354
2025	0.02	0.10	0.23	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	47.9	47.9	< 0.005	< 0.005	0.05	48.8

2.4. Operations Emissions Compared Against Thresholds

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.55	0.84	13.0	0.02	—	—	—	—	—	—	55.0	1,528	1,583	4.92	0.08	5.31	1,735
Mit.	2.55	0.84	13.0	0.02	—	—	—	—	—	—	55.0	1,511	1,566	4.91	0.08	5.31	1,717
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.84	0.83	6.01	0.01	—	—	—	—	—	—	55.0	1,444	1,500	4.93	0.08	0.60	1,648
Mit.	1.84	0.83	6.01	0.01	—	—	—	—	—	—	55.0	1,427	1,482	4.92	0.08	0.60	1,630
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.21	0.99	9.42	0.02	—	—	—	—	—	—	55.0	1,488	1,543	4.93	0.08	2.56	1,693
Mit.	2.21	0.99	9.42	0.02	—	—	—	—	—	—	55.0	1,471	1,526	4.92	0.08	2.56	1,675
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.40	0.18	1.72	< 0.005	—	—	—	—	—	—	9.11	246	255	0.82	0.01	0.42	280
Mit.	0.40	0.18	1.72	< 0.005	—	—	—	—	—	—	9.11	243	253	0.81	0.01	0.42	277
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%

2.5. Operations Emissions by Sector, Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.98	0.60	6.19	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,449	1,449	0.07	0.06	4.83	1,473
Area	1.56	0.06	6.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	19.8	19.8	< 0.005	< 0.005	—	19.9
Energy	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	264	264	0.05	< 0.005	—	266
Water	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Waste	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Stationary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vegetation	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Total	2.55	0.84	13.0	0.02	NaN	NaN	NaN	NaN	NaN	NaN	55.0	1,528	1,583	4.92	0.08	5.31	1,735
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.95	0.66	5.94	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,385	1,385	0.08	0.06	0.13	1,406
Area	0.87	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	264	264	0.05	< 0.005	—	266
Water	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Waste	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Stationary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vegetation	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Total	1.84	0.83	6.01	0.01	NaN	NaN	NaN	NaN	NaN	NaN	55.0	1,444	1,500	4.93	0.08	0.60	1,648
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.94	0.65	5.90	0.01	0.01	1.22	1.23	0.01	0.31	0.32	—	1,395	1,395	0.08	0.06	2.09	1,417

Area	1.21	0.03	3.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.76	9.76	< 0.005	< 0.005	—	9.80
Energy	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	264	264	0.05	< 0.005	—	266
Water	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Waste	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Stationary	0.05	0.13	0.12	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	24.0	24.0	< 0.005	< 0.005	0.00	24.1
Vegetation	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Total	2.21	0.99	9.42	0.02	NaN	NaN	NaN	NaN	NaN	NaN	55.0	1,488	1,543	4.93	0.08	2.56	1,693
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.17	0.12	1.08	< 0.005	< 0.005	0.22	0.23	< 0.005	0.06	0.06	—	231	231	0.01	0.01	0.35	235
Area	0.22	0.01	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.62	1.62	< 0.005	< 0.005	—	1.62
Energy	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.7	43.7	0.01	< 0.005	—	44.1
Water	—	—	—	—	—	—	—	—	—	—	1.21	0.47	1.68	< 0.005	< 0.005	—	2.59
Waste	—	—	—	—	—	—	—	—	—	—	7.90	0.00	7.90	0.79	0.00	—	27.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Stationary	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	3.98	3.98	< 0.005	< 0.005	0.00	3.99
Vegetation	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-34.4	-34.4	—	—	—	-34.4
Total	0.40	0.18	1.72	< 0.005	NaN	NaN	NaN	NaN	NaN	NaN	9.11	246	255	0.82	0.01	0.42	280

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

Mobile	0.98	0.60	6.19	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,449	1,449	0.07	0.06	4.83	1,473
Area	1.56	0.06	6.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	19.8	19.8	< 0.005	< 0.005	—	19.9
Energy	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	246	246	0.04	< 0.005	—	248
Water	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Waste	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Stationary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vegetation	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Total	2.55	0.84	13.0	0.02	NaN	NaN	NaN	NaN	NaN	NaN	55.0	1,511	1,566	4.91	0.08	5.31	1,717
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.95	0.66	5.94	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,385	1,385	0.08	0.06	0.13	1,406
Area	0.87	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	246	246	0.04	< 0.005	—	248
Water	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Waste	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Stationary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vegetation	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Total	1.84	0.83	6.01	0.01	NaN	NaN	NaN	NaN	NaN	NaN	55.0	1,427	1,482	4.92	0.08	0.60	1,630
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.94	0.65	5.90	0.01	0.01	1.22	1.23	0.01	0.31	0.32	—	1,395	1,395	0.08	0.06	2.09	1,417
Area	1.21	0.03	3.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.76	9.76	< 0.005	< 0.005	—	9.80
Energy	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	246	246	0.04	< 0.005	—	248

Water	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Waste	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Stationary	0.05	0.13	0.12	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	24.0	24.0	< 0.005	< 0.005	0.00	24.1
Vegetation	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Total	2.21	0.99	9.42	0.02	NaN	NaN	NaN	NaN	NaN	NaN	55.0	1,471	1,526	4.92	0.08	2.56	1,675
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.17	0.12	1.08	< 0.005	< 0.005	0.22	0.23	< 0.005	0.06	0.06	—	231	231	0.01	0.01	0.35	235
Area	0.22	0.01	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.62	1.62	< 0.005	< 0.005	—	1.62
Energy	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.8	40.8	0.01	< 0.005	—	41.1
Water	—	—	—	—	—	—	—	—	—	—	1.21	0.47	1.68	< 0.005	< 0.005	—	2.59
Waste	—	—	—	—	—	—	—	—	—	—	7.90	0.00	7.90	0.79	0.00	—	27.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Stationary	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	3.98	3.98	< 0.005	< 0.005	0.00	3.99
Vegetation	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-34.4	-34.4	—	—	—	-34.4
Total	0.40	0.18	1.72	< 0.005	NaN	NaN	NaN	NaN	NaN	NaN	9.11	243	253	0.81	0.01	0.42	277

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	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	3.89	37.7	35.0	0.05	1.67	—	1.67	1.54	—	1.54	—	5,579	5,579	0.23	0.05	—	5,598
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
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	3.89	37.7	35.0	0.05	1.67	—	1.67	1.54	—	1.54	—	5,579	5,579	0.23	0.05	—	5,598
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
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	0.47	4.55	4.21	0.01	0.20	—	0.20	0.19	—	0.19	—	673	673	0.03	0.01	—	675
Dust From Material Movement	—	—	—	—	—	2.37	2.37	—	1.22	1.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.83	0.77	< 0.005	0.04	—	0.04	0.03	—	0.03	—	111	111	< 0.005	< 0.005	—	112

Dust From Material Movement	—	—	—	—	—	0.43	0.43	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	1.11	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	218	218	0.01	0.01	0.87	221
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.97	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	206	206	0.01	0.01	0.02	208
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	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.05	25.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.14	4.14	< 0.005	< 0.005	0.01	4.20
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	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	3.89	37.7	35.0	0.05	1.67	—	1.67	1.54	—	1.54	—	5,579	5,579	0.23	0.05	—	5,598
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
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	3.89	37.7	35.0	0.05	1.67	—	1.67	1.54	—	1.54	—	5,579	5,579	0.23	0.05	—	5,598
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
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	0.47	4.55	4.21	0.01	0.20	—	0.20	0.19	—	0.19	—	673	673	0.03	0.01	—	675
Dust From Material Movement	—	—	—	—	—	0.92	0.92	—	0.47	0.47	—	—	—	—	—	—	—
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	0.09	0.83	0.77	< 0.005	0.04	—	0.04	0.03	—	0.03	—	111	111	< 0.005	< 0.005	—	112
Dust From Material Movement	—	—	—	—	—	0.17	0.17	—	0.09	0.09	—	—	—	—	—	—	—
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	0.09	0.08	1.11	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	218	218	0.01	0.01	0.87	221
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.97	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	206	206	0.01	0.01	0.02	208
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	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.05	25.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.14	4.14	< 0.005	< 0.005	0.01	4.20
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	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	1.66	15.8	16.2	0.02	0.70	—	0.70	0.64	—	0.64	—	2,533	2,533	0.10	0.02	—	2,541
Dust From Material Movement	—	—	—	—	—	6.56	6.56	—	3.37	3.37	—	—	—	—	—	—	—
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	1.66	15.8	16.2	0.02	0.70	—	0.70	0.64	—	0.64	—	2,533	2,533	0.10	0.02	—	2,541
Dust From Material Movement	—	—	—	—	—	6.56	6.56	—	3.37	3.37	—	—	—	—	—	—	—
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	0.20	1.90	1.95	< 0.005	0.08	—	0.08	0.08	—	0.08	—	305	305	0.01	< 0.005	—	306
Dust From Material Movement	—	—	—	—	—	0.79	0.79	—	0.41	0.41	—	—	—	—	—	—	—

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	0.04	0.35	0.36	< 0.005	0.02	—	0.02	0.01	—	0.01	—	50.5	50.5	< 0.005	< 0.005	—	50.7
Dust From Material Movement	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
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	0.06	0.05	0.74	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	145	145	0.01	0.01	0.58	147
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	0.02	1.38	0.49	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	1,024	1,024	0.06	0.16	2.20	1,076
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.65	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	137	137	0.01	0.01	0.02	139
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	0.02	1.43	0.50	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	1,024	1,024	0.06	0.16	0.06	1,074
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.03	16.9
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	< 0.005	0.17	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	123	123	0.01	0.02	0.11	130
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	0.01	2.80
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	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.4	20.4	< 0.005	< 0.005	0.02	21.5

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	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	1.66	15.8	16.2	0.02	0.70	—	0.70	0.64	—	0.64	—	2,533	2,533	0.10	0.02	—	2,541
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
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	1.66	15.8	16.2	0.02	0.70	—	0.70	0.64	—	0.64	—	2,533	2,533	0.10	0.02	—	2,541
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
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	0.20	1.90	1.95	< 0.005	0.08	—	0.08	0.08	—	0.08	—	305	305	0.01	< 0.005	—	306

Dust From Material Movement	—	—	—	—	—	0.31	0.31	—	0.16	0.16	—	—	—	—	—	—	—
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	0.04	0.35	0.36	< 0.005	0.02	—	0.02	0.01	—	0.01	—	50.5	50.5	< 0.005	< 0.005	—	50.7
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.74	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	145	145	0.01	0.01	0.58	147
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	0.02	1.38	0.49	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	1,024	1,024	0.06	0.16	2.20	1,076
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.65	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	137	137	0.01	0.01	0.02	139
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	0.02	1.43	0.50	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	1,024	1,024	0.06	0.16	0.06	1,074
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.03	16.9
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	< 0.005	0.17	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	123	123	0.01	0.02	0.11	130

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	0.01	2.80
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	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.4	20.4	< 0.005	< 0.005	0.02	21.5

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	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	0.25	2.39	3.14	< 0.005	0.14	—	0.14	0.13	—	0.13	—	457	457	0.02	< 0.005	—	459
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	0.25	2.39	3.14	< 0.005	0.14	—	0.14	0.13	—	0.13	—	457	457	0.02	< 0.005	—	459
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	0.13	1.27	1.67	< 0.005	0.07	—	0.07	0.07	—	0.07	—	243	243	0.01	< 0.005	—	244
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	0.02	0.23	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.3	40.3	< 0.005	< 0.005	—	40.4

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	0.34	0.28	4.04	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	791	791	0.04	0.03	3.18	804
Vendor	0.02	0.53	0.24	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	383	383	0.02	0.05	0.98	400
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	0.34	0.30	3.54	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	747	747	0.04	0.03	0.08	757
Vendor	0.01	0.55	0.25	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	383	383	0.02	0.05	0.03	399
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	0.18	0.16	1.91	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	401	401	0.02	0.02	0.73	407
Vendor	0.01	0.29	0.13	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	204	204	0.01	0.03	0.23	213
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	0.03	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.4	66.4	< 0.005	< 0.005	0.12	67.4
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.7	33.7	< 0.005	< 0.005	0.04	35.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	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	0.25	2.39	3.14	< 0.005	0.14	—	0.14	0.13	—	0.13	—	457	457	0.02	< 0.005	—	459
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	0.25	2.39	3.14	< 0.005	0.14	—	0.14	0.13	—	0.13	—	457	457	0.02	< 0.005	—	459
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	0.13	1.27	1.67	< 0.005	0.07	—	0.07	0.07	—	0.07	—	243	243	0.01	< 0.005	—	244
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	0.02	0.23	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.3	40.3	< 0.005	< 0.005	—	40.4
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	0.34	0.28	4.04	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	791	791	0.04	0.03	3.18	804
Vendor	0.02	0.53	0.24	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	383	383	0.02	0.05	0.98	400
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	0.34	0.30	3.54	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	747	747	0.04	0.03	0.08	757
Vendor	0.01	0.55	0.25	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	383	383	0.02	0.05	0.03	399
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	0.18	0.16	1.91	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	401	401	0.02	0.02	0.73	407
Vendor	0.01	0.29	0.13	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	204	204	0.01	0.03	0.23	213
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	0.03	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.4	66.4	< 0.005	< 0.005	0.12	67.4
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.7	33.7	< 0.005	< 0.005	0.04	35.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	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	0.23	2.21	3.12	< 0.005	0.12	—	0.12	0.11	—	0.11	—	457	457	0.02	< 0.005	—	459
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	0.23	2.21	3.12	< 0.005	0.12	—	0.12	0.11	—	0.11	—	457	457	0.02	< 0.005	—	459
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	0.04	0.41	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	84.1	84.1	< 0.005	< 0.005	—	84.4
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.9	13.9	< 0.005	< 0.005	—	14.0
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	0.33	0.25	3.79	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	776	776	0.04	0.03	2.91	788
Vendor	0.02	0.50	0.23	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	376	376	0.02	0.05	0.98	393
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	0.32	0.28	3.32	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	733	733	0.04	0.03	0.08	742
Vendor	0.01	0.52	0.24	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	376	376	0.02	0.05	0.03	392
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	0.06	0.05	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	0.01	0.01	0.23	138
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	69.2	69.2	< 0.005	0.01	0.08	72.3

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.5	22.5	< 0.005	< 0.005	0.04	22.8
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.01	12.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	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	0.23	2.21	3.12	< 0.005	0.12	—	0.12	0.11	—	0.11	—	457	457	0.02	< 0.005	—	459
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	0.23	2.21	3.12	< 0.005	0.12	—	0.12	0.11	—	0.11	—	457	457	0.02	< 0.005	—	459
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	0.04	0.41	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	84.1	84.1	< 0.005	< 0.005	—	84.4
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.9	13.9	< 0.005	< 0.005	—	14.0
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	0.33	0.25	3.79	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	776	776	0.04	0.03	2.91	788
Vendor	0.02	0.50	0.23	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	376	376	0.02	0.05	0.98	393
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	0.32	0.28	3.32	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	733	733	0.04	0.03	0.08	742
Vendor	0.01	0.52	0.24	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	376	376	0.02	0.05	0.03	392
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	0.06	0.05	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	0.01	0.01	0.23	138
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	69.2	69.2	< 0.005	0.01	0.08	72.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.5	22.5	< 0.005	< 0.005	0.04	22.8
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.01	12.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2024) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.05	0.49	0.63	< 0.005	0.02	—	0.02	0.02	—	0.02	—	95.3	95.3	< 0.005	< 0.005	—	95.6
Paving	< 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	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Paving	< 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	0.06	0.05	0.74	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	145	145	0.01	0.01	0.58	147
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.65	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	137	137	0.01	0.01	0.02	139
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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.71	8.71	< 0.005	< 0.005	0.02	8.84
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.44	1.44	< 0.005	< 0.005	< 0.005	1.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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 (2024) - Mitigated

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

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

Off-Road Equipment	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.05	0.49	0.63	< 0.005	0.02	—	0.02	0.02	—	0.02	—	95.3	95.3	< 0.005	< 0.005	—	95.6
Paving	< 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	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Paving	< 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	0.06	0.05	0.74	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	145	145	0.01	0.01	0.58	147
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.65	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	137	137	0.01	0.01	0.02	139
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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.71	8.71	< 0.005	< 0.005	0.02	8.84
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.44	1.44	< 0.005	< 0.005	< 0.005	1.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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 (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.41	8.41	< 0.005	< 0.005	—	8.44
Architectural Coatings	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.39	1.39	< 0.005	< 0.005	—	1.40
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.07	0.06	0.81	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	158	158	0.01	0.01	0.64	161

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.71	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	149	149	0.01	0.01	0.02	151
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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.50	9.50	< 0.005	< 0.005	0.02	9.64
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.60
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 (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.41	8.41	< 0.005	< 0.005	—	8.44
Architectural Coatings	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.39	1.39	< 0.005	< 0.005	—	1.40
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.07	0.06	0.81	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	158	158	0.01	0.01	0.64	161

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.71	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	149	149	0.01	0.01	0.02	151
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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.50	9.50	< 0.005	< 0.005	0.02	9.64
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.60
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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Congregate Care (Assisted Living)	0.98	0.60	6.19	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,449	1,449	0.07	0.06	4.83	1,473
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.98	0.60	6.19	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,449	1,449	0.07	0.06	4.83	1,473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.95	0.66	5.94	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,385	1,385	0.08	0.06	0.13	1,406
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.95	0.66	5.94	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,385	1,385	0.08	0.06	0.13	1,406
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.17	0.12	1.08	< 0.005	< 0.005	0.22	0.23	< 0.005	0.06	0.06	—	231	231	0.01	0.01	0.35	235
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.17	0.12	1.08	< 0.005	< 0.005	0.22	0.23	< 0.005	0.06	0.06	—	231	231	0.01	0.01	0.35	235

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.98	0.60	6.19	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,449	1,449	0.07	0.06	4.83	1,473
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.98	0.60	6.19	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,449	1,449	0.07	0.06	4.83	1,473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.95	0.66	5.94	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,385	1,385	0.08	0.06	0.13	1,406
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.95	0.66	5.94	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,385	1,385	0.08	0.06	0.13	1,406
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.17	0.12	1.08	< 0.005	< 0.005	0.22	0.23	< 0.005	0.06	0.06	—	231	231	0.01	0.01	0.35	235
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.17	0.12	1.08	< 0.005	< 0.005	0.22	0.23	< 0.005	0.06	0.06	—	231	231	0.01	0.01	0.35	235

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	40.6	40.6	0.03	< 0.005	—	42.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	3.01	3.01	< 0.005	< 0.005	—	3.15
Total	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	0.03	< 0.005	—	45.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	40.6	40.6	0.03	< 0.005	—	42.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	3.01	3.01	< 0.005	< 0.005	—	3.15
Total	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	0.03	< 0.005	—	45.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	6.73	6.73	< 0.005	< 0.005	—	7.03
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.50	0.50	< 0.005	< 0.005	—	0.52
Total	—	—	—	—	—	—	—	—	—	—	—	7.23	7.23	0.01	< 0.005	—	7.55

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	23.3	23.3	0.02	< 0.005	—	24.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	3.01	3.01	< 0.005	< 0.005	—	3.15
Total	—	—	—	—	—	—	—	—	—	—	—	26.4	26.4	0.02	< 0.005	—	27.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	23.3	23.3	0.02	< 0.005	—	24.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	3.01	3.01	< 0.005	< 0.005	—	3.15
Total	—	—	—	—	—	—	—	—	—	—	—	26.4	26.4	0.02	< 0.005	—	27.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	3.86	3.86	< 0.005	< 0.005	—	4.04
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.50	0.50	< 0.005	< 0.005	—	0.52
Total	—	—	—	—	—	—	—	—	—	—	—	4.36	4.36	< 0.005	< 0.005	—	4.56

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.02	< 0.005	—	221
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.02	< 0.005	—	221
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.02	< 0.005	—	221
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.02	< 0.005	—	221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.4	36.4	< 0.005	< 0.005	—	36.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.4	36.4	< 0.005	< 0.005	—	36.5

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.02	< 0.005	—	221
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.02	< 0.005	—	221
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.02	< 0.005	—	221
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	220	220	0.02	< 0.005	—	221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.4	36.4	< 0.005	< 0.005	—	36.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.4	36.4	< 0.005	< 0.005	—	36.5

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.69	0.06	6.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.9
Total	1.56	0.06	6.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	19.8	19.8	< 0.005	< 0.005	—	19.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.87	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Consumer Products	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	0.01	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.62	1.62	< 0.005	< 0.005	—	1.62
Total	0.22	0.01	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.62	1.62	< 0.005	< 0.005	—	1.62

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.69	0.06	6.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.9
Total	1.56	0.06	6.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	19.8	19.8	< 0.005	< 0.005	—	19.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Consumer	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.87	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	0.01	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.62	1.62	< 0.005	< 0.005	—	1.62
Total	0.22	0.01	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.62	1.62	< 0.005	< 0.005	—	1.62

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	1.21	0.47	1.68	< 0.005	< 0.005	—	2.59
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1.21	0.47	1.68	< 0.005	< 0.005	—	2.59

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

Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.28	2.87	10.1	0.03	0.02	—	15.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	1.21	0.47	1.68	< 0.005	< 0.005	—	2.59
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1.21	0.47	1.68	< 0.005	< 0.005	—	2.59

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	7.90	0.00	7.90	0.79	0.00	—	27.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.90	0.00	7.90	0.79	0.00	—	27.7

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	47.7	0.00	47.7	4.77	0.00	—	167
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	7.90	0.00	7.90	0.79	0.00	—	27.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.90	0.00	7.90	0.79	0.00	—	27.7

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congregate Care (Assisted Living)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	3.98	3.98	< 0.005	< 0.005	0.00	3.99
Total	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	3.98	3.98	< 0.005	< 0.005	0.00	3.99

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

Emergency	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	3.98	3.98	< 0.005	< 0.005	0.00	3.99
Total	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	3.98	3.98	< 0.005	< 0.005	0.00	3.99

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.22	-1.22	—	—	—	-1.22

Cercidiu spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.55	-0.55	—	—	—	-0.55
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-2.49	-2.49	—	—	—	-2.49
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-4.65	-4.65	—	—	—	-4.65
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-2.63	-2.63	—	—	—	-2.63
Bouigenvi llea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.87	-6.87	—	—	—	-6.87
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-3.83	-3.83	—	—	—	-3.83
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.01	-1.01	—	—	—	-1.01
Calliandr a Haemato phylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.97	-6.97	—	—	—	-6.97
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-7.69	-7.69	—	—	—	-7.69
Ceanothu s Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.73	-1.73	—	—	—	-1.73
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.37	-0.37	—	—	—	-0.37
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-40.0	-40.0	—	—	—	-40.0
Sequeste red	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	—	—	—	—	—	—	—	-0.06	-0.06	—	—	—	-0.06
Cercidiu m spp	—	—	—	—	—	—	—	—	—	—	—	-0.59	-0.59	—	—	—	-0.59
California Sycamore	—	—	—	—	—	—	—	—	—	—	—	-13.3	-13.3	—	—	—	-13.3

Canyon Live Oak	—	—	—	—	—	—	—	—	—	—	—	-32.0	-32.0	—	—	—	-32.0
Chinese Elm	—	—	—	—	—	—	—	—	—	—	—	-29.5	-29.5	—	—	—	-29.5
Bouigenvillea	—	—	—	—	—	—	—	—	—	—	—	-22.4	-22.4	—	—	—	-22.4
Aloe Spp	—	—	—	—	—	—	—	—	—	—	—	-4.80	-4.80	—	—	—	-4.80
Peacock Flower	—	—	—	—	—	—	—	—	—	—	—	-4.39	-4.39	—	—	—	-4.39
Calliandra Haematophylla	—	—	—	—	—	—	—	—	—	—	—	-15.9	-15.9	—	—	—	-15.9
Tree Anemone	—	—	—	—	—	—	—	—	—	—	—	-30.2	-30.2	—	—	—	-30.2
Ceanothus Spp	—	—	—	—	—	—	—	—	—	—	—	-13.3	-13.3	—	—	—	-13.3
Syagrus Spp	—	—	—	—	—	—	—	—	—	—	—	-0.95	-0.95	—	—	—	-0.95
Subtotal	—	—	—	—	—	—	—	—	—	—	—	-167	-167	—	—	—	-167
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—

Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.22	-1.22	—	—	—	-1.22
Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.55	-0.55	—	—	—	-0.55
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-2.49	-2.49	—	—	—	-2.49
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-4.65	-4.65	—	—	—	-4.65
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-2.63	-2.63	—	—	—	-2.63

Bouigenvi	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.87	-6.87	—	—	—	-6.87
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-3.83	-3.83	—	—	—	-3.83
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.01	-1.01	—	—	—	-1.01
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.97	-6.97	—	—	—	-6.97
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-7.69	-7.69	—	—	—	-7.69
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.73	-1.73	—	—	—	-1.73
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.37	-0.37	—	—	—	-0.37
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-40.0	-40.0	—	—	—	-40.0
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	—	—	—	—	—	—	—	-0.06	-0.06	—	—	—	-0.06
Cercidium spp	—	—	—	—	—	—	—	—	—	—	—	-0.59	-0.59	—	—	—	-0.59
California Sycamore	—	—	—	—	—	—	—	—	—	—	—	-13.3	-13.3	—	—	—	-13.3
Canyon Live Oak	—	—	—	—	—	—	—	—	—	—	—	-32.0	-32.0	—	—	—	-32.0
Chinese Elm	—	—	—	—	—	—	—	—	—	—	—	-29.5	-29.5	—	—	—	-29.5
Bouigenvillea	—	—	—	—	—	—	—	—	—	—	—	-22.4	-22.4	—	—	—	-22.4
Aloe Spp	—	—	—	—	—	—	—	—	—	—	—	-4.80	-4.80	—	—	—	-4.80
Peacock Flower	—	—	—	—	—	—	—	—	—	—	—	-4.39	-4.39	—	—	—	-4.39

Calliandr Haematoph	— ylla	—	—	—	—	—	—	—	—	—	—	-15.9	-15.9	—	—	—	-15.9
Tree Anemone	—	—	—	—	—	—	—	—	—	—	—	-30.2	-30.2	—	—	—	-30.2
Ceanothu s Spp	—	—	—	—	—	—	—	—	—	—	—	-13.3	-13.3	—	—	—	-13.3
Syagrus Spp	—	—	—	—	—	—	—	—	—	—	—	-0.95	-0.95	—	—	—	-0.95
Subtotal	—	—	—	—	—	—	—	—	—	—	—	-167	-167	—	—	—	-167
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Cercidiu m spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Bouigenvi llea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Calliandr a Haemato phylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—

Ceanothus	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.20	-0.20	—	—	—	-0.20
Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.09	-0.09	—	—	—	-0.09
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.41	-0.41	—	—	—	-0.41
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.77	-0.77	—	—	—	-0.77
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.44	-0.44	—	—	—	-0.44
Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.14	-1.14	—	—	—	-1.14
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.63	-0.63	—	—	—	-0.63
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.17	-0.17	—	—	—	-0.17
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.15	-1.15	—	—	—	-1.15
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.27	-1.27	—	—	—	-1.27

Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.29	-0.29	—	—	—	-0.29
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.06	-0.06	—	—	—	-0.06
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.62	-6.62	—	—	—	-6.62
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	—	—	—	—	—	—	—	-0.01	-0.01	—	—	—	-0.01
Cercidium spp	—	—	—	—	—	—	—	—	—	—	—	-0.10	-0.10	—	—	—	-0.10
California Sycamore	—	—	—	—	—	—	—	—	—	—	—	-2.20	-2.20	—	—	—	-2.20
Canyon Live Oak	—	—	—	—	—	—	—	—	—	—	—	-5.30	-5.30	—	—	—	-5.30
Chinese Elm	—	—	—	—	—	—	—	—	—	—	—	-4.89	-4.89	—	—	—	-4.89
Bouigenvillea	—	—	—	—	—	—	—	—	—	—	—	-3.71	-3.71	—	—	—	-3.71
Aloe Spp	—	—	—	—	—	—	—	—	—	—	—	-0.80	-0.80	—	—	—	-0.80
Peacock Flower	—	—	—	—	—	—	—	—	—	—	—	-0.73	-0.73	—	—	—	-0.73
Calliandra Haematophylla	—	—	—	—	—	—	—	—	—	—	—	-2.64	-2.64	—	—	—	-2.64
Tree Anemone	—	—	—	—	—	—	—	—	—	—	—	-4.99	-4.99	—	—	—	-4.99
Ceanothus Spp	—	—	—	—	—	—	—	—	—	—	—	-2.20	-2.20	—	—	—	-2.20
Syagrus Spp	—	—	—	—	—	—	—	—	—	—	—	-0.16	-0.16	—	—	—	-0.16

Subtotal	—	—	—	—	—	—	—	—	—	—	—	-27.7	-27.7	—	—	—	-27.7
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-34.4	-34.4	—	—	—	-34.4

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	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	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.22	-1.22	—	—	—	-1.22
Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.55	-0.55	—	—	—	-0.55
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-2.49	-2.49	—	—	—	-2.49
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-4.65	-4.65	—	—	—	-4.65
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-2.63	-2.63	—	—	—	-2.63
Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.87	-6.87	—	—	—	-6.87
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-3.83	-3.83	—	—	—	-3.83
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.01	-1.01	—	—	—	-1.01
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.97	-6.97	—	—	—	-6.97
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-7.69	-7.69	—	—	—	-7.69
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.73	-1.73	—	—	—	-1.73
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.37	-0.37	—	—	—	-0.37
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-40.0	-40.0	—	—	—	-40.0

Sequeste	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	—	—	—	—	—	—	—	-0.06	-0.06	—	—	—	-0.06
Cercidium spp	—	—	—	—	—	—	—	—	—	—	—	-0.59	-0.59	—	—	—	-0.59
California Sycamore	—	—	—	—	—	—	—	—	—	—	—	-13.3	-13.3	—	—	—	-13.3
Canyon Live Oak	—	—	—	—	—	—	—	—	—	—	—	-32.0	-32.0	—	—	—	-32.0
Chinese Elm	—	—	—	—	—	—	—	—	—	—	—	-29.5	-29.5	—	—	—	-29.5
Bouigenvillea	—	—	—	—	—	—	—	—	—	—	—	-22.4	-22.4	—	—	—	-22.4
Aloe Spp	—	—	—	—	—	—	—	—	—	—	—	-4.80	-4.80	—	—	—	-4.80
Peacock Flower	—	—	—	—	—	—	—	—	—	—	—	-4.39	-4.39	—	—	—	-4.39
Calliandra Haematophylla	—	—	—	—	—	—	—	—	—	—	—	-15.9	-15.9	—	—	—	-15.9
Tree Anemone	—	—	—	—	—	—	—	—	—	—	—	-30.2	-30.2	—	—	—	-30.2
Ceanothus Spp	—	—	—	—	—	—	—	—	—	—	—	-13.3	-13.3	—	—	—	-13.3
Syagrus Spp	—	—	—	—	—	—	—	—	—	—	—	-0.95	-0.95	—	—	—	-0.95
Subtotal	—	—	—	—	—	—	—	—	—	—	—	-167	-167	—	—	—	-167
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—

Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.22	-1.22	—	—	—	-1.22

Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.55	-0.55	—	—	—	-0.55
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-2.49	-2.49	—	—	—	-2.49
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-4.65	-4.65	—	—	—	-4.65
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-2.63	-2.63	—	—	—	-2.63
Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.87	-6.87	—	—	—	-6.87
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-3.83	-3.83	—	—	—	-3.83
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.01	-1.01	—	—	—	-1.01
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.97	-6.97	—	—	—	-6.97
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-7.69	-7.69	—	—	—	-7.69
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.73	-1.73	—	—	—	-1.73
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.37	-0.37	—	—	—	-0.37
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-40.0	-40.0	—	—	—	-40.0
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	—	—	—	—	—	—	—	-0.06	-0.06	—	—	—	-0.06
Cercidium spp	—	—	—	—	—	—	—	—	—	—	—	-0.59	-0.59	—	—	—	-0.59
California Sycamore	—	—	—	—	—	—	—	—	—	—	—	-13.3	-13.3	—	—	—	-13.3

Canyon Live Oak	—	—	—	—	—	—	—	—	—	—	—	-32.0	-32.0	—	—	—	-32.0
Chinese Elm	—	—	—	—	—	—	—	—	—	—	—	-29.5	-29.5	—	—	—	-29.5
Bouigenvillea	—	—	—	—	—	—	—	—	—	—	—	-22.4	-22.4	—	—	—	-22.4
Aloe Spp	—	—	—	—	—	—	—	—	—	—	—	-4.80	-4.80	—	—	—	-4.80
Peacock Flower	—	—	—	—	—	—	—	—	—	—	—	-4.39	-4.39	—	—	—	-4.39
Calliandra Haematophylla	—	—	—	—	—	—	—	—	—	—	—	-15.9	-15.9	—	—	—	-15.9
Tree Anemone	—	—	—	—	—	—	—	—	—	—	—	-30.2	-30.2	—	—	—	-30.2
Ceanothus Spp	—	—	—	—	—	—	—	—	—	—	—	-13.3	-13.3	—	—	—	-13.3
Syagrus Spp	—	—	—	—	—	—	—	—	—	—	—	-0.95	-0.95	—	—	—	-0.95
Subtotal	—	—	—	—	—	—	—	—	—	—	—	-167	-167	—	—	—	-167
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—

Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-207	-207	—	—	—	-207
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.20	-0.20	—	—	—	-0.20
Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.09	-0.09	—	—	—	-0.09
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.41	-0.41	—	—	—	-0.41
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.77	-0.77	—	—	—	-0.77
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.44	-0.44	—	—	—	-0.44

Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.14	-1.14	—	—	—	-1.14
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.63	-0.63	—	—	—	-0.63
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.17	-0.17	—	—	—	-0.17
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.15	-1.15	—	—	—	-1.15
Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-1.27	-1.27	—	—	—	-1.27
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.29	-0.29	—	—	—	-0.29
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-0.06	-0.06	—	—	—	-0.06
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-6.62	-6.62	—	—	—	-6.62
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	—	—	—	—	—	—	—	-0.01	-0.01	—	—	—	-0.01
Cercidium spp	—	—	—	—	—	—	—	—	—	—	—	-0.10	-0.10	—	—	—	-0.10
California Sycamore	—	—	—	—	—	—	—	—	—	—	—	-2.20	-2.20	—	—	—	-2.20
Canyon Live Oak	—	—	—	—	—	—	—	—	—	—	—	-5.30	-5.30	—	—	—	-5.30
Chinese Elm	—	—	—	—	—	—	—	—	—	—	—	-4.89	-4.89	—	—	—	-4.89
Bouigenvillea	—	—	—	—	—	—	—	—	—	—	—	-3.71	-3.71	—	—	—	-3.71
Aloe Spp	—	—	—	—	—	—	—	—	—	—	—	-0.80	-0.80	—	—	—	-0.80

Peacock Flower	—	—	—	—	—	—	—	—	—	—	—	-0.73	-0.73	—	—	—	-0.73
Calliandra Haematophylla	—	—	—	—	—	—	—	—	—	—	—	-2.64	-2.64	—	—	—	-2.64
Tree Anemone	—	—	—	—	—	—	—	—	—	—	—	-4.99	-4.99	—	—	—	-4.99
Ceanothus Spp	—	—	—	—	—	—	—	—	—	—	—	-2.20	-2.20	—	—	—	-2.20
Syagrus Spp	—	—	—	—	—	—	—	—	—	—	—	-0.16	-0.16	—	—	—	-0.16
Subtotal	—	—	—	—	—	—	—	—	—	—	—	-27.7	-27.7	—	—	—	-27.7
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acacia Baileyana	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Cercidium spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
California Sycamore	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Canyon Live Oak	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Chinese Elm	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Bouigenvillea	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Aloe Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Peacock Flower	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Calliandra Haematophylla	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—

Tree Anemone	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Ceanothus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Syagrus Spp	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
Subtotal	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	NaN	NaN	NaN	NaN	NaN	NaN	—	-34.4	-34.4	—	—	—	-34.4

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	2/5/2024	4/4/2024	5.00	44.0	—
Grading	Grading	2/5/2024	4/4/2024	5.00	44.0	—
Building Construction	Building Construction	4/4/2024	4/4/2025	5.00	262	—
Paving	Paving	9/2/2024	10/2/2024	5.00	23.0	—
Architectural Coating	Architectural Coating	9/2/2024	10/2/2024	5.00	23.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Site Preparation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Site Preparation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	0.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	0.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	0.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	0.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Site Preparation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	0.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37

Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	0.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	0.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	0.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	14.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	81.8	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	15.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	16.4	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	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	22.5	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	14.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	81.8	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	15.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	16.4	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	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	76,065	25,355	0.00	0.00	1,670

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	66.0	0.00	—
Grading	4,909	0.00	22.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.64

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
Congregate Care (Assisted Living)	—	0%
Parking Lot	0.64	100%

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	540	0.03	< 0.005
2025	0.00	540	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
Congregate Care (Assisted Living)	252	252	252	92,053	1,742	1,742	1,742	635,919
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Congregate Care (Assisted Living)	252	252	252	92,053	1,742	1,742	1,742	635,919
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Congregate Care (Assisted Living)	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	97
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)
Congregate Care (Assisted Living)	—
Wood Fireplaces	0

Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	97
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)
76065.075	25,355	0.00	0.00	1,670

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Congregate Care (Assisted Living)	328,914	45.1	0.0330	0.0040	686,608
Parking Lot	24,383	45.1	0.0330	0.0040	0.00

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)
Congregate Care (Assisted Living)	188,914	45.1	0.0330	0.0040	686,608
Parking Lot	24,383	45.1	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Congregate Care (Assisted Living)	3,407,908	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Congregate Care (Assisted Living)	3,407,908	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Congregate Care (Assisted Living)	88.6	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Congregate Care (Assisted Living)	88.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Congregate Care (Assisted Living)	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Congregate Care (Assisted Living)	Household refrigerators and/or freezers	R-134a	1,430	0.22	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
Congregate Care (Assisted Living)	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Congregate Care (Assisted Living)	Household refrigerators and/or freezers	R-134a	1,430	0.22	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
Emergency Generator	Diesel	1.00	0.00	52.0	201	0.73

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)
Acacia Baileyana	5.00	11,080	57.8
Cercidium spp	4.00	6,175	20.0
California Sycamore	18.0	27,785	89.9
Canyon Live Oak	12.0	26,592	139
Canyon Live Oak	7.00	15,512	81.0
Chinese Elm	13.0	20,067	64.9
Chinese Elm	6.00	9,262	30.0
Bouigenvillea	51.0	64,931	311
Aloe Spp	26.0	35,963	174
Peacock Flower	12.0	11,294	36.4
Calliandra Haematophylla	62.0	66,680	311

Tree Anemone	68.0	73,357	344
Ceanothus Spp	45.0	17,145	73.5
Syagrus Spp	7.00	3,847	14.9

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
Acacia Baileyana	5.00	11,080	57.8
Cercidium spp	4.00	6,175	20.0
California Sycamore	18.0	27,785	89.9
Canyon Live Oak	12.0	26,592	139
Canyon Live Oak	7.00	15,512	81.0
Chinese Elm	13.0	20,067	64.9
Chinese Elm	6.00	9,262	30.0
Bouigenvillea	51.0	64,931	311
Aloe Spp	26.0	35,963	174
Peacock Flower	12.0	11,294	36.4
Calliandra Haematophylla	62.0	66,680	311
Tree Anemone	68.0	73,357	344
Ceanothus Spp	45.0	17,145	73.5
Syagrus Spp	7.00	3,847	14.9

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	12.4	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	7.98	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	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	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	64.7
AQ-PM	47.0
AQ-DPM	46.0
Drinking Water	45.9
Lead Risk Housing	51.2

Pesticides	0.00
Toxic Releases	32.6
Traffic	42.6
Effect Indicators	—
CleanUp Sites	87.1
Groundwater	78.3
Haz Waste Facilities/Generators	76.2
Impaired Water Bodies	58.7
Solid Waste	35.7
Sensitive Population	—
Asthma	59.0
Cardio-vascular	56.5
Low Birth Weights	76.0
Socioeconomic Factor Indicators	—
Education	63.8
Housing	86.4
Linguistic	53.4
Poverty	70.7
Unemployment	90.3

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	12.30591557
Employed	37.66200436
Median HI	18.97857051

Education	—
Bachelor's or higher	19.73566021
High school enrollment	100
Preschool enrollment	4.106249198
Transportation	—
Auto Access	48.80020531
Active commuting	74.09213397
Social	—
2-parent households	9.983318363
Voting	31.97741563
Neighborhood	—
Alcohol availability	16.05286796
Park access	2.194276915
Retail density	71.5642243
Supermarket access	69.34428333
Tree canopy	8.263826511
Housing	—
Homeownership	14.14089568
Housing habitability	23.07198768
Low-inc homeowner severe housing cost burden	51.4307712
Low-inc renter severe housing cost burden	22.26356987
Uncrowded housing	23.44411651
Health Outcomes	—
Insured adults	17.41306301
Arthritis	24.0
Asthma ER Admissions	52.5
High Blood Pressure	57.0

Cancer (excluding skin)	49.7
Asthma	10.9
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	6.0
Diagnosed Diabetes	38.1
Life Expectancy at Birth	10.0
Cognitively Disabled	52.2
Physically Disabled	30.9
Heart Attack ER Admissions	76.4
Mental Health Not Good	12.0
Chronic Kidney Disease	35.4
Obesity	27.8
Pedestrian Injuries	44.0
Physical Health Not Good	21.6
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	7.2
No Leisure Time for Physical Activity	26.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	5.0
Elderly	90.4
English Speaking	53.3
Foreign-born	50.0
Outdoor Workers	51.9

Climate Change Adaptive Capacity	—
Impervious Surface Cover	9.0
Traffic Density	60.8
Traffic Access	23.0
Other Indices	—
Hardship	71.9
Other Decision Support	—
2016 Voting	31.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	80.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
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	Based on applicant provided information
Construction: Construction Phases	Based on applicant provided schedule
Construction: Off-Road Equipment	Based on applicant provided information
Operations: Vehicle Data	Based on Lincott, Law, & Greenspan, Engineers' transportation analysis for the proposed project's new daily vehicle trips
Operations: Hearths	No woodstoves or fireplaces as project feature
Operations: Water and Waste Water	No Septic tanks onsite and wastewater treatment plants dont have facultative lagoons.
Operations: Emergency Generators and Fire Pumps	Based on 150 kilowatt description of generator. San Diego APCD allows up to 52 testing and maintenance per year.

Bradley Court
GHG Emissions Reductions from Charging Stations

Estimated GHG Emissions Reductions to replace gasoline vehicles with Electric Vehicles

		Passenger Vehicle	
	Bradely		Conversion Factors:
Project Electricity Emission Factor[1]	0.02	$MTCO_2e$/MWh	2204.62 lb/MT
Electric Vehicle Fuel Economy[2]	0.25	kWh/mile	1.00E-06 MT/gram
Gasoline CO_2e Emissions while Running[3]	262	gr/mile	0.001 MWh to KWh
Annual VMT Reduction per charging Station[4]	39,125	miles/charging station/year)	
Number of Chargers[5]	3		
Annual VMT Reduction All Stations (based on Charge)	117,375		

Estimated Benefit from Installing Electric Vehicle Charging Stations.

	Bradley	
GHG Emissions of Gasoline vehicles	31	$MTCO_2e$/yr
GHG Emisssions of Electric Vehicles	1	$MTCO_2e$/yr
Net Reduction in Emissions	30	$MTCO_2e$/yr
Emissions/station	10.0469812	

Notes:

[1] CO_2e intensity factor of lb/MWh is consistent with previous project CalEEMod runs.

Bradley

45.10

[2] Obtained from National Renewable Energy Laboratory (NREL), 2018. California Plug-In Electric Vehicle Infrastructure

[3] Obtained emission factor from CalEEMod Annual CO_2 gr/mile for LDA

Bradley

261.906

[4] Annual VMT reduction estimated based on an estimate of five hours of charge time for a Level 2 charging station that charges at a rate of 25 driving range per hour.

[5] Number of charging stations

Project Report - i-Tree Planting Calculator

Location: El Cajon, California 92020
Electricity Emissions Factor: 556.45 pounds CO2 equivalent/MWh
Fuel Emissions Factor: 114.64 pounds CO2 equivalent/MMBtu
Lifetime: 30 years
Project Lifetime Tree Mortality: 70%

All amounts in the tables are for the full lifetime of the project.

Location		CO_2 (Carbon Dioxide) Benefits			
Group Identifier	**Tree Group Characteristics**	**CO_2 (Carbon Dioxide) Avoided (pounds)**	**CO_2 Avoided ($)**	**CO_2 Sequestered (pounds)**	**CO_2 Sequestered ($)**
1	• (5.0) Bailey acacia(Acacia baileyana) at 24.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	13,395.4	$311.54	681.9	$15.86
2	• (4.0) Cercidium spp(Cercidium) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	6,059.9	$140.93	6,500.0	$151.17
3	• (18.0) California sycamore(Platanus racemosa) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	27,269.6	$634.21	145,799.3	$3,390.84
4	• (12.0) Canyon live oak(Quercus chrysolepis) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	32,149.0	$747.69	221,277.3	$5,146.23
5	• (7.0) Canyon live oak(Quercus chrysolepis) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	18,753.6	$436.15	129,078.4	$3,001.97

Location		CO_2 (Carbon Dioxide) Benefits			
Group Identifier	Tree Group Characteristics	CO_2 (Carbon Dioxide) Avoided (pounds)	CO_2 Avoided ($)	CO_2 Sequestered (pounds)	CO_2 Sequestered ($)
6	• (13.0) Chinese elm(Ulmus parvifolia) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	19,694.7	$458.04	304,359.9	$7,078.47
7	• (6.0) Chinese elm(Ulmus parvifolia) at 48.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	9,089.9	$211.40	19,158.4	$445.56
8	• (51.0) Bougainvillea spp(Bougainvillea) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	75,240.7	$1,749.87	245,354.5	$5,706.19
9	• (26.0) Aloe spp(Aloe) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	41,916.5	$974.85	52,590.0	$1,223.08
10	• (12.0) Peacock flower(Albizia gummifera) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	11,064.4	$257.32	48,029.0	$1,117.01
11	• (62.0) Calliandra haematophylla(Calliandra haematophylla) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	76,322.5	$1,775.03	174,435.1	$4,056.82

Location		CO_2 (Carbon Dioxide) Benefits			
Group Identifier	**Tree Group Characteristics**	**CO_2 (Carbon Dioxide) Avoided (pounds)**	**CO_2 Avoided ($)**	**CO_2 Sequestered (pounds)**	**CO_2 Sequestered ($)**
12	• (68.0) Tree Anemone spp(Carpenteria) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	84,239.1	$1,959.14	330,345.0	$7,682.81
13	• (45.0) Ceanothus spp(Ceanothus) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	18,900.2	$439.56	145,802.8	$3,390.92
14	• (7.0) Syagrus spp(Syagrus) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	7,545.9	$175.49	11,610.9	$270.03
Total		**441,641.4**	**$10,271.22**	**1,835,022.4**	**$42,676.97**

Location		Energy Benefits			
Group Identifier	Tree Group Characteristics	Electricity Saved (kWh) (Kilowatt-Hours)	Electricity Saved ($)	Fuel Saved (MMBtu) (Millions of British Thermal Units)	Fuel Saved ($)
1	• (5.0) Bailey acacia(Acacia baileyana) at 24.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	11,079.9	$2,268.05	57.8	$748.34
2	• (4.0) Cercidium spp(Cercidium) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	6,174.5	$1,263.92	20.0	$258.45
3	• (18.0) California sycamore(Platanus racemosa) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	27,785.2	$5,687.63	89.9	$1,163.01
4	• (12.0) Canyon live oak(Quercus chrysolepis) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	26,591.7	$5,443.32	138.8	$1,796.01
5	• (7.0) Canyon live oak(Quercus chrysolepis) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	15,511.8	$3,175.27	81.0	$1,047.67

Location		Energy Benefits			
Group Identifier	Tree Group Characteristics	Electricity Saved (kWh) (Kilowatt-Hours)	Electricity Saved ($)	Fuel Saved (MMBtu) (Millions of British Thermal Units)	Fuel Saved ($)
6	• (13.0) Chinese elm(Ulmus parvifolia) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	20,067.1	$4,107.74	64.9	$839.95
7	• (6.0) Chinese elm(Ulmus parvifolia) at 48.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	9,261.7	$1,895.88	30.0	$387.67
8	• (51.0) Bougainvillea spp(Bougainvillea) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	64,931.0	$13,291.37	310.5	$4,017.49
9	• (26.0) Aloe spp(Aloe) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	35,962.8	$7,361.58	174.1	$2,252.63
10	• (12.0) Peacock flower(Albizia gummifera) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	11,293.6	$2,311.79	36.4	$470.50

Location		Energy Benefits			
Group Identifier	Tree Group Characteristics	Electricity Saved (kWh) (Kilowatt-Hours)	Electricity Saved ($)	Fuel Saved (MMBtu) (Millions of British Thermal Units)	Fuel Saved ($)
11	• (62.0) Calliandra haematophylla(Calliandra haematophylla) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	66,680.1	$13,649.41	310.6	$4,019.05
12	• (68.0) Tree Anemone spp(Carpenteria) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	73,356.8	$15,016.14	344.1	$4,452.45
13	• (45.0) Ceanothus spp(Ceanothus) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	17,145.1	$3,509.61	73.5	$951.65
14	• (7.0) Syagrus spp(Syagrus) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	7,097.9	$1,452.93	28.0	$362.53
Total		**392,939.2**	**$80,434.65**	**1,759.5**	**$22,767.40**

Location		Ecological Benefits			
Group Identifier	Tree Group Characteristics	Tree Biomass (short ton)	Rainfall Interception (gallons)	Runoff Avoided (gallons)	Runoff Avoided ($)
1	• (5.0) Bailey acacia(Acacia baileyana) at 24.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	1.6	125,201.7	32,533.9	$290.72
2	• (4.0) Cercidium spp(Cercidium) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	13.5	152,445.4	39,613.2	$353.98
3	• (18.0) California sycamore(Platanus racemosa) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	39.5	906,064.5	235,442.6	$2,103.92
4	• (12.0) Canyon live oak(Quercus chrysolepis) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	60.8	601,779.7	156,373.6	$1,397.35
5	• (7.0) Canyon live oak(Quercus chrysolepis) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	35.5	351,038.1	91,217.9	$815.12

Location		Ecological Benefits			
Group Identifier	Tree Group Characteristics	Tree Biomass (short ton)	Rainfall Interception (gallons)	Runoff Avoided (gallons)	Runoff Avoided ($)
6	• (13.0) Chinese elm(Ulmus parvifolia) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	66.8	654,510.0	170,075.7	$1,519.80
7	• (6.0) Chinese elm(Ulmus parvifolia) at 48.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	32.0	346,710.9	90,093.5	$805.08
8	• (51.0) Bougainvillea spp(Bougainvillea) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	34.5	288,581.2	74,988.4	$670.10
9	• (26.0) Aloe spp(Aloe) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	7.3	98,991.3	25,723.1	$229.86
10	• (12.0) Peacock flower(Albizia gummifera) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	7.9	70,129.3	18,223.2	$162.84
11	• (62.0) Calliandra haematophylla(Calliandra haematophylla) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	27.1	248,058.2	64,458.4	$576.00

Location		Ecological Benefits			
Group Identifier	**Tree Group Characteristics**	**Tree Biomass (short ton)**	**Rainfall Interception (gallons)**	**Runoff Avoided (gallons)**	**Runoff Avoided ($)**
12	• (68.0) Tree Anemone spp(Carpenteria) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	46.6	380,998.6	99,003.2	$884.69
13	• (45.0) Ceanothus spp(Ceanothus) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	20.6	136,668.1	35,513.5	$317.35
14	• (7.0) Syagrus spp(Syagrus) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	2.7	321,890.0	83,643.7	$747.44
Total		**396.4**	**4,683,067.0**	**1,216,903.9**	**$10,874.26**

Location		Air Benefits									
Group Identifier	Tree Group Characteristics	O_3 (Ozone) Removed (pounds)	NO_2 (Nitrogen Dioxide) Avoided (pounds)	NO_2 (Nitrogen Dioxide) Removed (pounds)	SO_2 (Sulfur Dioxide) Avoided (pounds)	SO_2 (Sulfur Dioxide) Removed (pounds)	VOC (Volatile Organic Compound) Avoided (pounds)	$PM_{2.5}$ (Particulate matter smaller than 2.5 micrometers in diameter) Avoided (pounds)	$PM_{2.5}$ (Particulate matter smaller than 2.5 micrometers in diameter) Removed (pounds)	Avoided Value (Values for avoided pollutants) ($)	Removal Value (Values for removed pollutants) ($)

1	• (5.0) Bailey acacia(Acacia baileyana) at 24.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	177.17	0.96	27.74	3.39	0.73	5.86	3.66	1.66	$21.88	$862.74
2	• (4.0) Cercidium spp(Cercidium) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	152.50	0.44	21.29	1.53	0.60	3.20	2.02	0.96	$11.71	$597.28
3	• (18.0) California sycamore(Platanus racemosa) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	1,537.43	1.96	233.98	6.90	5.89	14.40	9.10	13.64	$52.70	$7,673.60

4	• (12.0) Canyon live oak(Quercus chrysolepis) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	774.95	2.31	119.48	8.14	3.22	14.07	8.78	6.82	$52.52	$3,608.75
5	• (7.0) Canyon live oak(Quercus chrysolepis) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	452.06	1.35	69.70	4.75	1.88	8.21	5.12	3.98	$30.64	$2,105.10
6	• (13.0) Chinese elm(Ulmus parvifolia) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	435.19	1.42	57.40	4.99	1.75	10.40	6.57	2.19	$38.06	$1,537.02

7	• (6.0) Chinese elm(Ulmus parvifolia) at 48.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	170.97	0.65	22.10	2.30	0.69	4.80	3.03	0.79	$17.57	$585.73
8	• (51.0) Bougainvillea spp(Bougainvillea) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	431.08	5.41	68.28	19.04	1.78	34.20	21.40	4.25	$127.12	$2,188.92
9	• (26.0) Aloe spp(Aloe) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	122.06	3.01	18.77	10.61	0.51	18.95	11.85	1.07	$70.49	$569.38

10	• (12.0) Peacock flower(Albizia gummifera) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	98.23	0.80	14.53	2.80	0.38	5.85	3.70	0.78	$21.41	$449.87
11	• (62.0) Calliandra haematophylla(Calliandra haematophylla) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	329.88	5.49	51.28	19.32	1.37	35.08	21.96	3.02	$130.22	$1,583.24
12	• (68.0) Tree Anemone spp(Carpenteria) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	523.76	6.06	81.80	21.32	2.17	38.60	24.16	4.87	$143.36	$2,542.97

13	• (45.0) Ceanothus spp(Ceanothus) at 2.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	148.61	1.36	22.28	4.78	0.62	8.98	5.64	1.17	$33.23	$643.10
14	• (7.0) Syagrus spp(Syagrus) at 36.0 inches DBH (Diameter at Breast Height). • Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.	276.44	0.54	39.78	1.91	1.17	3.71	2.33	1.83	$13.66	$1,088.38
Total		**5,630.34**	**31.76**	**848.42**	**111.78**	**22.75**	**206.32**	**129.34**	**47.03**	**$764.58**	**$26,036.08**

Sequestration and biomass are gross values that exclude losses to mortality.

Application v2.6.0, powered by engine v0.14.0 (APIv2) and database v12.0.56.

www.fs.fed.us
www.davey.com

www.arborday.org
www.urban-forestry.com
www.isa-arbor.com
www.caseytrees.org
www.esf.edu
www.northeasternforests.org

Version 2.6.0