Draft Recirculated Environmental Impact Report

SCH# 2022080056

Volume 3

Appendices B through D (Part 1)

MALIBU VINEYARDS INDUSTRIAL PARKWAY PROJECT

by Malibu Vineyards, LP

(PP21116)

Specific Plan Amendment No. 161, Map 500
General Plan Amendment No. 9, Map 80
General Plan Amendment No. 23, Map 81
Zone Classification Change No. 13, Map 80
Zone Classification Change No. 92, Map 81
Precise Development Plan No. 2, Map 80
Precise Development Plan No. 74, Map 81
Precise Development Plan No. 75, Map 81

Kern County
Planning and Natural Resources Department
Bakersfield, CA

September 2025

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Appendices - Volume 3

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Appendix B: Malibu Vineyards Industrial Parkway Specific Plan

Appendix C: Farmland Conversion Study

Appendix D (Part 1): Air Quality Impact Analysis and Appendices

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Appendix B

Malibu Vineyards Industrial Parkway Specific Plan

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Malibu Vineyards Industrial Parkway Specific Plan

Sections 24, 25, 29, 30, Township 28 South,

Ranges 26 and 27 East, M.D.B. M.

County of Kern, State of California

Kern County Planning and Natural Resources Department

2025

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1.0 Introduction

This Specific Plan is intended to provide sufficient direction to accommodate the development of the Malibu Vineyards Industrial Parkway. California State Government Code Section 65450 et seq. is the enabling statute for Specific Plan preparation and adoption. Emphasis is placed on planning and financing of infrastructure for the Plan area. A specific plan acts as a versatile tool for implementing planning policy by providing a detailed plan for the development of a specific area. It addresses issues of importance in the area with policies and implementation measures that will protect the natural environment, provide adequate public facilities and services and promote a quality environment enhancing the character of the area. The Plan was prepared in accordance with the Industrial Policies presented in the Land Use, Open Space and Conservation Element of the Kern County General Plan.

1.1 Authority and Scope

The Specific Plan is adopted by ordinance making it a regulatory document. The Specific Plan is an integral component of the Kern County General Plan. Preparation of the Specific Plan if for the systematic implementation of the general plan for the area covered by the general plan and the relationship between the specific plan to the general plan. This document provides a comprehensive and tailored guide for development of the project area. Consistent with State and County requirements, the documents sets forth a definitive land use development plan, development regulations, design guidelines, and implementation plans and programs designed to ensure a successful project development consistent with the goals and policies of the County's General Plan.

The purpose of the Malibu Vineyards Industrial Parkway Specific Plan is to establish the following:

- Facilitate development in response to market demands which is supportive of the County's economic base;
- Implement existing General Plan goals and/or policies by presenting more detailed direction for future development of the Specific Plan area, and;
- Set forth sufficient regulations for development of property within the Specific Plan, that by complying with all standards and regulations, the end user/developer will be able to go through a streamlined process to obtain permits.

The policies of the Kern County General Plan are hereby incorporated by reference. When discrepancies exist between the General Plan and the Malibu Vineyards Industrial Parkway Specific Plan, the more restrictive requirements shall apply. The California Government Code allows specific plans to be adopted either by resolution to establish a policy document or by ordinance to establish a regulatory document. Subsequent project related development plans and any other actions requiring discretionary or ministerial approval must comply with this plan. Any development proposal that is inconsistent with the Specific Plan shall require a Specific Plan Amendment, and if required, a General Plan Amendment for compliance.

1.2 Administrative Compliance

The project is within compliance of the California Environmental Quality Act (CEQA). An Environmental Impact Report (EIR) has been prepared for the Specific Plan and project area. The EIR was prepared in conformance with the most recently adopted State of California CEQA Guidelines. Numerous technical studies were prepared to analyze environmental conditions and assess the potential impacts of the project. The EIR used these studies to address the proposed project and its impact upon the environment and provides mitigation measures to

minimize or eliminate the identified project impacts. The EIR serves as the required environmental documentation for the Specific Plan and for proposed projects processed within the Specific Plan area. Future projects which are consistent with and implement the Specific Plan (such as subdivision maps) and which fall "within the scope" of the project analyzed in the EIR, should require no further environmental action under CEQA.

1.3 Relationship to Kern County General Plan

A portion of the project site, the majority of phase two, is within the Kern County General Plan, designated as Map Code 8.1 (Intensive Agriculture). In 2004, the Kern County Board of Supervisor's adopted the Kern County General Plan and later approved amendments, including the Land Use, Conservation, and Open Space Element. This serves as the authority for the element and provides a variety of land uses for future economic growth in Kern County. Preparation of the 2040 Kern County General Plan update is currently being processed with an unknown target adoption date. The General Plan also establishes a mechanism for specific, individualized treatment of "Special Treatment Areas" for development. The Malibu Vineyards Industrial Parkway special treatment area will be governed by this Specific Plan to address project related issues and opportunities in more detail than the broad scope of the Kern County General Plan.

This Specific Plan has been prepared to address and establish overall design and development standards for the approximate 739-acre industrial project. Accordingly, it has direct relationships to the Land Use, Conservation, and Open Space Element of the Kern County General Plan. The text of this Specific Plan includes sections discussing these relationships and it is not the purpose of this plan to expand upon the specificity of the Circulation, Safety, Energy, Housing, and Military Readiness Elements included within the Kern County General Plan since no dwellings are proposed, and there is no seismic faulting in this area. Those elements adequately address their respective concerns to this type of project, and further review in this regard is not required.

If any section, subsection, paragraph, sentence, clause or phrase of this text is for any reason held to be invalid or unconstitutional by the decision of any court or competent jurisdiction, such decision shall not affect the validity of the remaining portions of this text. The Board of Supervisor's hereby declares that it would have approved this plan, and each section, subsection, sentence, clause, and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, and phrases be declared invalid or unconstitutional.

1.4 Relationship to Metropolitan Bakersfield General Plan (Unincorporated Planning Area)

A portion of the project site, all of phase one with a portion of phase two, is within the Metropolitan Bakersfield General Plan (Unincorporated Planning Area), designated R-IA (Intensive Agriculture). In 2002, the Metropolitan Bakersfield General Plan was adopted defining elements for Land Use, Circulation, Housing, Conservation, Open Space, Noise, Safety, Downtown Redevelopment, Public Services and Facilities, Parks, Kern River Plan, and Historical Resources. The City of Bakersfield, in coordination with Kern County, is currently updating the 2045 Metropolitan Bakersfield General Plan and plans to adopt the document late next year in 2024. This General Plan articulates the economic, social and environmental goals for the future character and development of the Metropolitan Bakersfield planning area.

It is the intent of the Metropolitan Bakersfield General Plan to incorporate specific plans for properties within the general plan boundaries. Specific plans are intended to amplify the goals and policies of the general plan and determine exact land use designations within the plan area.

The intent of this Specific Plan is to accommodate new industrial development to capture the economic demands generated by the current dynamic marketplace.

This Specific Plan has been prepared to address and establish overall design and development standards for the approximate 739 acre industrial project. Accordingly, it has direct relationships to the Land Use, Circulation, Conservation, Open Space, and Noise Elements of the Metropolitan Bakersfield General Plan. The text of this Specific Plan includes sections discussing these relationships and it is not the purpose of this plan to expand upon the specificity of the Housing, Safety, Downtown Redevelopment, Public Services and Facilities, Parks, Kern River Plan, and Historical Resources Elements included within the Metropolitan Bakersfield General Plan since no dwellings are proposed, there is no seismic faulting in this area, it is not a historic site or located near the Kern River or downtown Bakersfield. Those elements adequately address their respective concerns to this type of project, and further review in this regard is not required.

If any section, subsection, paragraph, sentence, clause or phrase of this text is for any reason held to be invalid or unconstitutional by the decision of any court or competent jurisdiction, such decision shall not affect the validity of the remaining portions of this text. The City Council and Board of Supervisor's hereby declare that it would have approved this plan, and each section, subsection, sentence, clause, and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, and phrases be declared invalid or unconstitutional.

1.5 Regional Overview

1.5.1 Site Description

The Specific Plan area consists of approximately 739 acres of an existing vineyard and fallow agricultural land and will be developed over two phases. Phase 1 is bordered by Burbank Street to the north, generally Imperial Road to the east, Imperial Avenue to the South, and State Route 99 and the Lerdo Canal to the west. Phase 2 is just south of Kyte Avenue to the north, bordered by the Lerdo Canal to the east and south, and State Route 99 to the west. Access to Phase 1 of the project site is by way of Saco Road, Imperial Avenue and Burbank Street. The Phase 2 location is currently isolated between State Route 99 and the Lerdo Canal and would require development of a future expanded Burbank Street crossing the canal to facilitate access. This future transportation corridor will be constructed in compliance with California Department of Transportation and the County of Kern standards.

The site has been in agricultural production of table grapes for more than twenty years. A portion of the site is currently being utilized for growing table grapes and historic aerial maps indicate the site has been used for grape vineyards since the 1980’s. The site has an existing structure that is used as an agricultural storage building for various farm and agricultural related operation equipment. There are no Williamson Act land use contracts associated with the project site. There are no trees or dwelling units located on the site.

The topography of the site is located within a relatively flat-lying plain at approximately 440 feet above sea level. The project site is located in Federal Emergency Management Flood Zone ‘X’, indicating an area with a 0.2 percent chance of annual flooding. There are no mapped fault zones associates with the project site and no known surface or subsurface faults transecting any of the site area. Mineral recovery and petroleum resource areas have not been designated by the Kern County General Plan on the project site. Due to historic agricultural activities, cultural resources, wildfire and unique vegetation and special species impacts are low and/or nonexistent.

Southern portions of the site are within the Airport Land Use Compatibility Plan (ALUCP) for the Meadows Field Airport located approximately 1.5 miles to the southeast. These portions are in the ALUCP Zone B2, which may require dedication of avigation easements and Zone C, which limits high-rise office buildings to no more than four stories. The Specific Plan will require compliance with the ALUCP for future development of the site.

1.5.2 Legal Description

The project site is divided into three precise development plan map areas with the following legal descriptions:

PD Plan No. 74, Map 81

The west half of the northwest quarter of Section 29, Township 28 South, Range 27 East, Mount Diablo Meridian.

That portion of the east half and the east half of the west half of Section 30, Township 28 South, Range 27 East, Mount Diablo Meridian, lying northeasterly of the northeasterly lines of State Highway VI-KER-99 and the Lerdo Canal.

That portion of the west half of the northwest quarter of Section 30, Township 28 South, Range 27 East, Mount Diablo Meridian, lying northeasterly of the northeasterly line of the Lerdo Canal.

PD Plan No. 2, Map 80

That portion of Section 25, Township 28 South, Range 26 East, Mount Diablo Meridian, lying between the northeasterly line of State Highway VI-KER-99 and the southwesterly line of the Lerdo Canal.

That portion of the south half of Section 24, Township 28 South, Range 26 East, Mount Diablo Meridian, lying between the northeasterly line of State Highway VI-KER-99 and the southwesterly line of the Lerdo Canal.

The south 712 feet of lot 25 in Section 24, Township 28 South, Range 26 East, Mount Diablo Meridian, as measured from the centerline of Road G adjoining said lot on the south all as shown on map of Lerdo subdivision “a” filed for record in Map Book 2 at page 54 in the office of the Kern County recorder.

PD Plan No. 75, Map 81

That portion of the west half of the west half of Section 30, Township 28 South, Range 27 East, Mount Diablo Meridian, lying between the northeasterly line of State Highway VI-KER-99 and the southwesterly line of the Lerdo Canal.

1.5.3 Surrounding Land Use

The project site is located on agricultural land within unincorporated Kern County, California. Existing land uses in the area surrounding the project site are primarily industrial and agricultural with vineyards to the north and east, and industrial developments to the south and west side of State Route 99. Land use designation and zoning of the surrounding areas is summarized in Table 1 and Figures 1 through 4 below.

Table 1 Surrounding Land Use

Location	Land Use Designation	Zoning	Existing Land Use
North	Intensive Agriculture (8.1)	Exclusive Agriculture (A)	Agriculture
East	Intensive Agriculture (R-IA); Intensive Agriculture (8.1)	Exclusive Agriculture (A)	Agriculture, Industrial
South	Service Industrial (SI); Heavy Industrial (HI); Incorporated Cities – City of Shafter (1.2)	Exclusive Agriculture (A) Medium Industrial, Precise Development Combining (M-2 PD);	Agriculture, Industrial, Airport
West	Incorporated Cities – City of Shafter (1.2)	Exclusive Agriculture (A); Industrial (I); General Commercial (GC)	Agriculture, Industrial

Figure 1 Existing Zoning

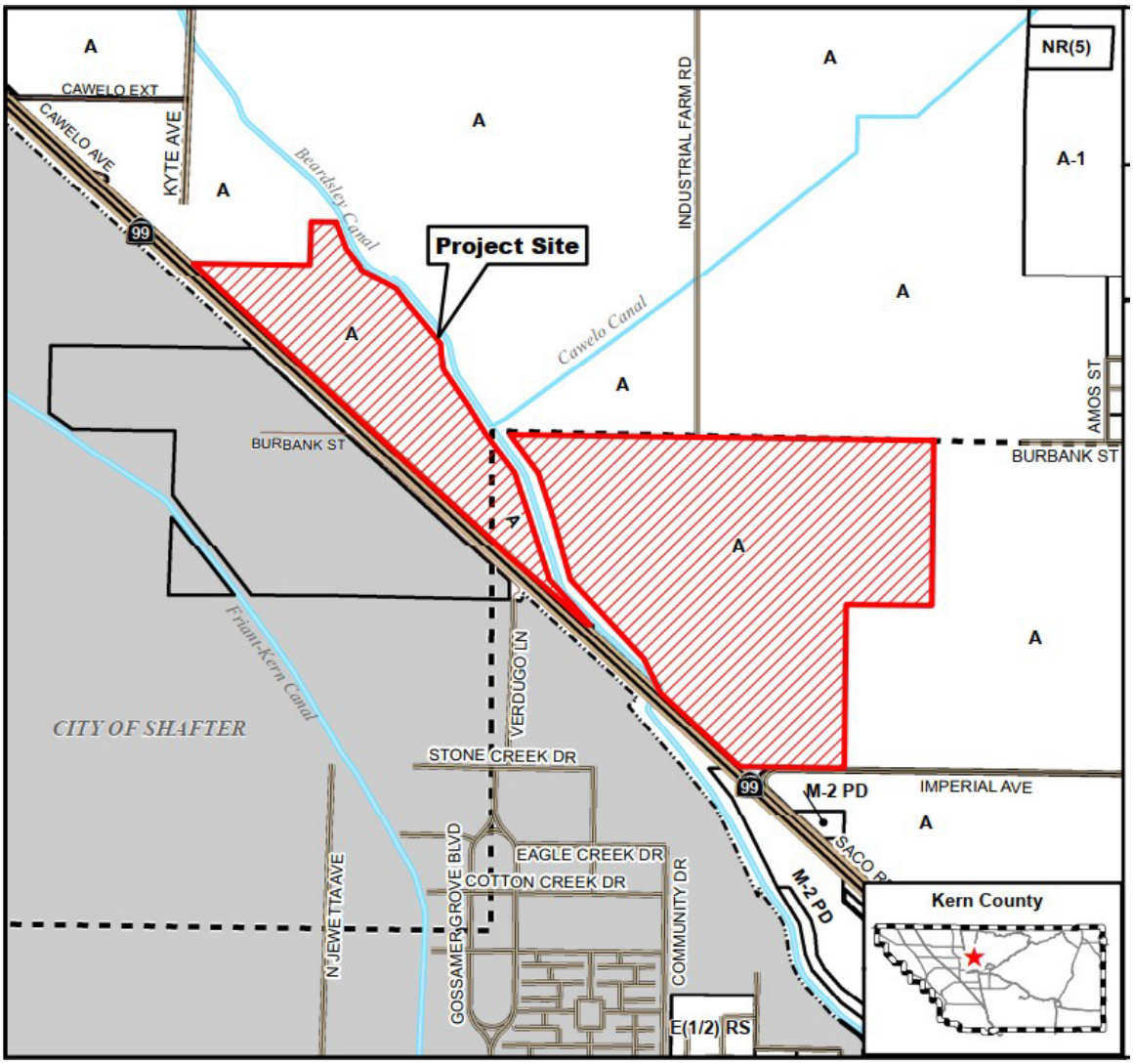


Figure 2 Proposed Zoning

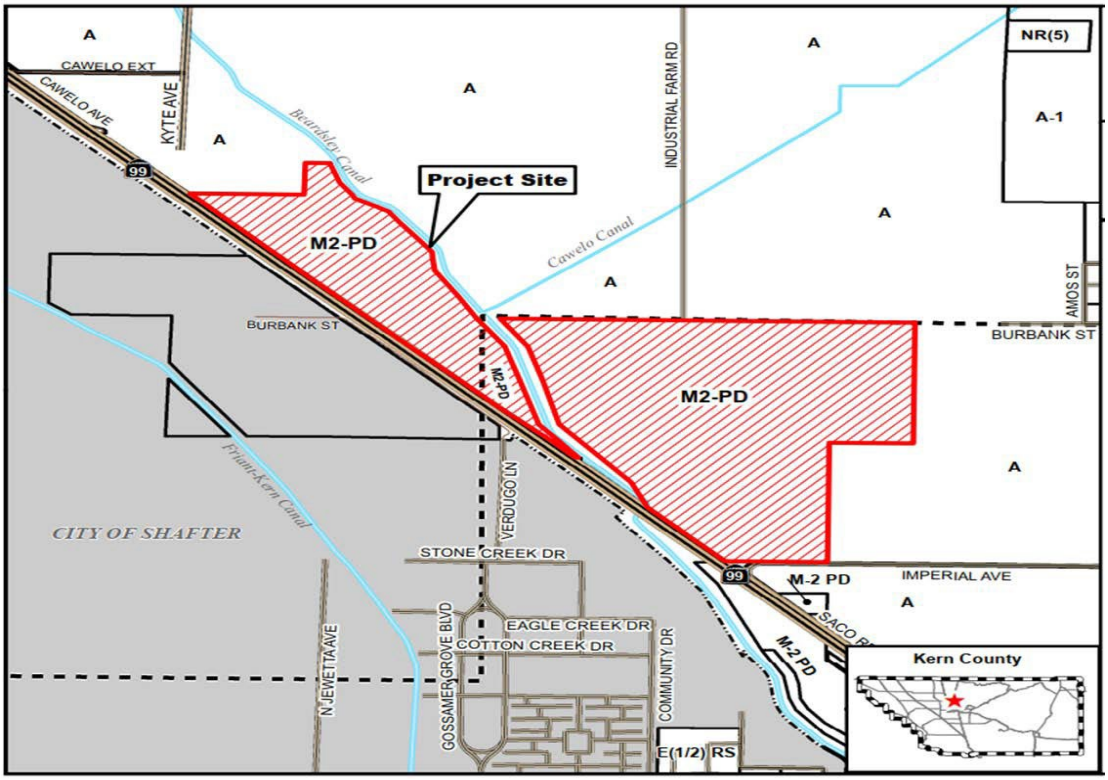


Figure 3 Existing Land Use Designation

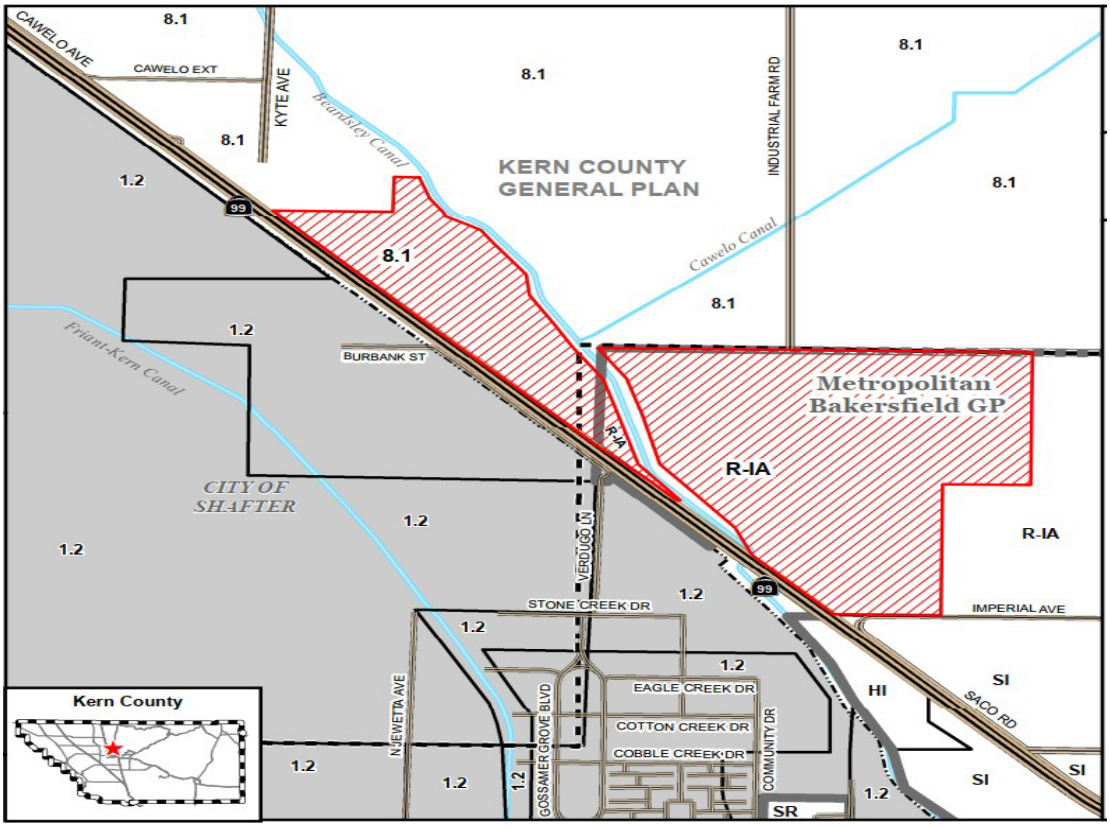
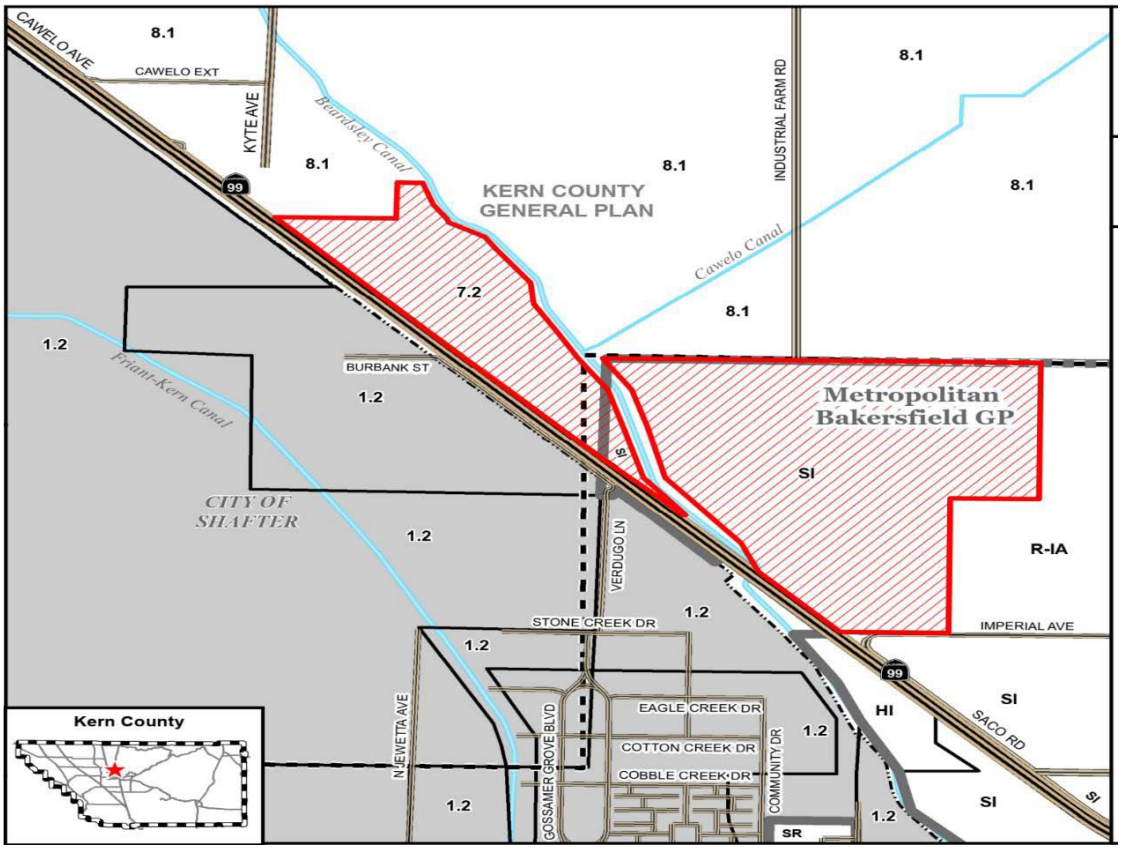


Figure 4 Proposed Land Use Designation



1.6 Project Description

The Specific Plan allows for the development of approximately 8,907,446 million square feet of industrial use space, comprised of twenty-four buildings on a 739-acre site located east of State Route 99 and north of Imperial Avenue in the unincorporated County of Kern. As existing, the site consists of several parcels and the proposed development would require new mapping to create new legal parcels consistent with development. As proposed, the site will allow for development of an approximate 8,907,446 million square foot industrial park with warehousing and distribution facilities defined by the Malibu Vineyards Industrial Parkway Specific Plan. See Figures 5 and 6 below.

Approval of the Specific Plan requires the following actions by the County of Kern:

1. Adoption of the Malibu Vineyards Industrial Parkway Specific Plan and amendments to the Kern County General Plan and Metropolitan Bakersfield General Plan boundaries to exclude the project site;

2. Amendment to the Kern County General Plan Land Use, Open Space and Conservation Element from Map Code 8.1 (Intensive Agriculture Minimum 20-Acre Parcel Size) to Map Code 4.1 (Accepted County Plan Area); upon approval of the Malibu Vineyards Industrial Parkway Specific Plan, the underlying Map Code 7.2 (Service Industrial) would be established;

3. Amendment to the Kern County Metropolitan Bakersfield General Plan Land

Use Element from Map Code R-IA (Resource-Intensive Agriculture) to Map Code SI (Service Industrial); upon approval of the Malibu Vineyards Industrial Parkway Specific Plan, the underlying Map Code SI (Service Industrial) would be established;

4. Change in zone classification from A (Exclusive Agriculture) to M-2 PD (Medium Industrial, Precise Development);

5. Approval of Precise Development Plans:
    - Precise Development Plan No. 2, Map 80;
    - Precise Development Plan No. 74, Map No. 81; and
    - Precise Development Plan No. 75, Map No. 81;

6. Certification of an Environmental Impact Report.

1.6.1 Proposed Uses

The proposed uses within this Specific Plan will accommodate a maximum of 8,907,446 square feet of Medium Industrial development on approximately 739 gross acres. Zoning for the Specific Plan area will be M-2 PD (Medium Industrial, Precise Development) and the land use designation will be SI (Service Industrial) to support the industrial development of all parcels in this plan area, after the entitlements and Environment Impact Report are approved. The subsequent division of land into smaller parcels would be additionally governed by Precise Development overlay, Subdivision and Parcel Map Ordinance, Zoning Ordinance, and Health Department Standards, and requirements of other Kern County Departments. A parcel map will follow the adoption of the entitlements and this Plan.

A Precise Development Plan was prepared for the proposed site development. Any future changes to the site will be processed through Precise Development Plan Modifications in compliance with Kern County standards. As currently planned, the project will be comprised of twenty-four industrial buildings and associated office space developed over two phases. Warehousing, distribution, high-cube transloading, and short-term storage will represent the probable combination of businesses that will operate within the development. Approximately twenty-five percent of the proposed square footage would include refrigerated warehouse space. See Figures 5 and 6 below.

1.6.2 Visual Impact Assessment

Visual appearance of the development will be maintained to enhance the site to potential users and customers. State Route 99 is not classified as a National Scenic Byway or Designated State Scenic Highway, nor considered a sensitive corridor regarding visual resource issues. Review of the project site and future plans indicate that the project would introduce industrial features that do not currently dominate the primarily agricultural landscape resulting in substantial adverse impacts to the visual environment. All development in the Specific Plan area will require incorporation of construction standards and Specific Plan criteria in the design of the plans in accordance with Kern County standards. This includes but is not limited to customer and employee parking, truck and trailer parking, truck docks, access roads, and on-site drainage. Market trends and customer needs will guide the demand for innovative design within the development.

1.6.3 Access and Circulation

Both the Kern County General Plan and Metropolitan Bakersfield General Plan provide for the development of the area and ensure circulation and additional infrastructure is planned to meet the needs of the areas designated within the Specific Plan. Market demands and expansion of preceding development will determine the phasing of development. Major infrastructure improvements and improved circulation throughout the site and surrounding areas will be required. New connectivity will feature an expansion of a future arterial segment of Burbank Street, local streets, expressway, and interchange with phase two of development. Adjacent roads would be developed to half-width standards and roads through the site would be developed to full width standards.

The project would develop local roads internal to the project to facilitate project access and internal circulation. Local roads would provide access to truck drive aisles and parking areas associated with each building. The California Transportation Department will be consulted to provide input on any State highway upgrades needed for the project. Street improvements, paving, curb, gutter, sidewalk, street lighting, utilities, and drainage facilities will also be required with site development in accordance with Kern County standards. All infrastructure improvements will be paid for by the developer with appropriate Building permits. A Community Service District may be established upon recordation of a final parcel map to maintain the streets, lighting and drainage facilities of the Specific Plan Area. *See Figures 5 through 6 site plans below.*

Figure 5 Phase One Site Plan (PD Plan No 74, Map 81)

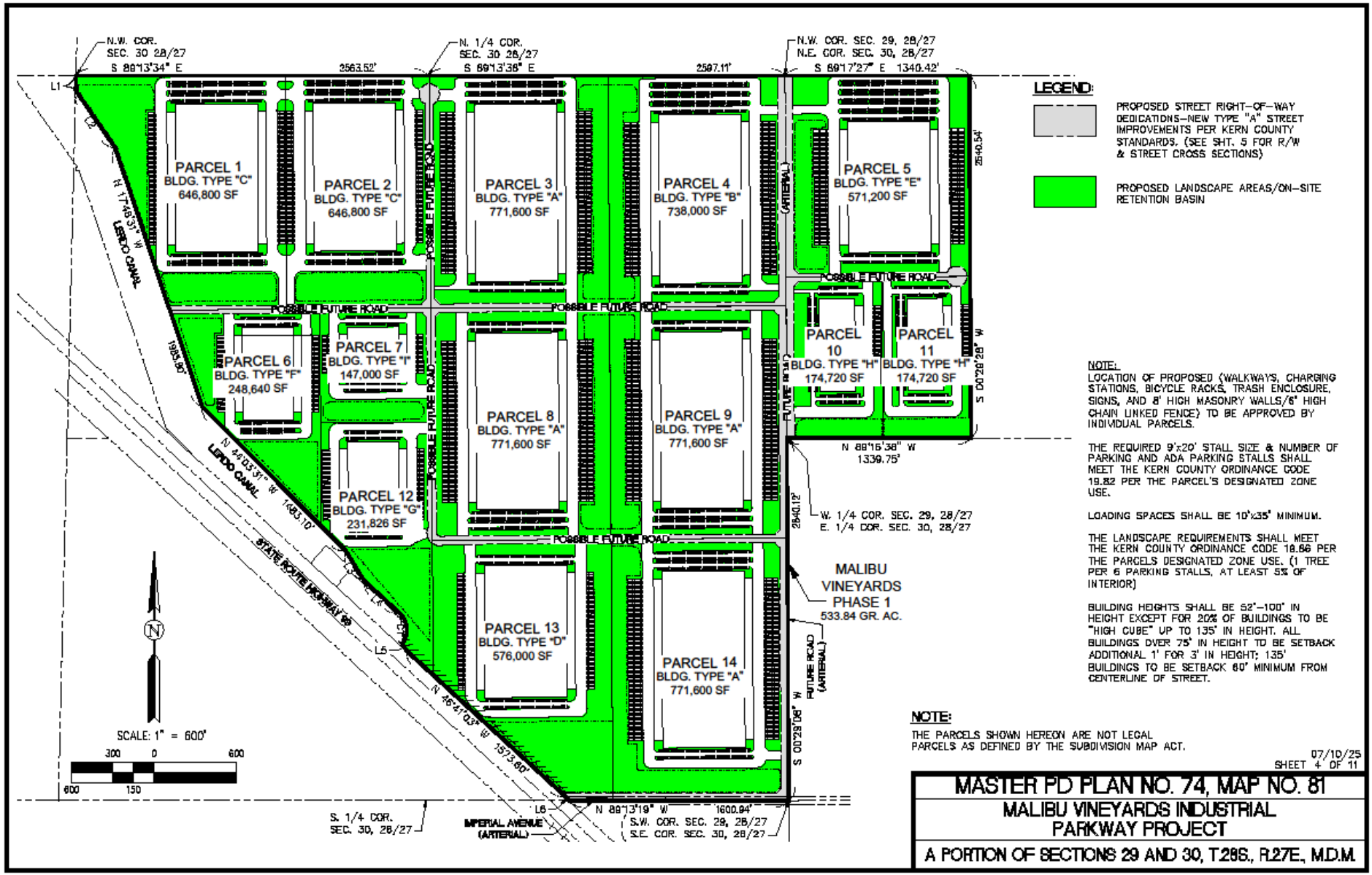


Figure 6 Phase Two Site Plan (PD Plan No. 2, Map 80)

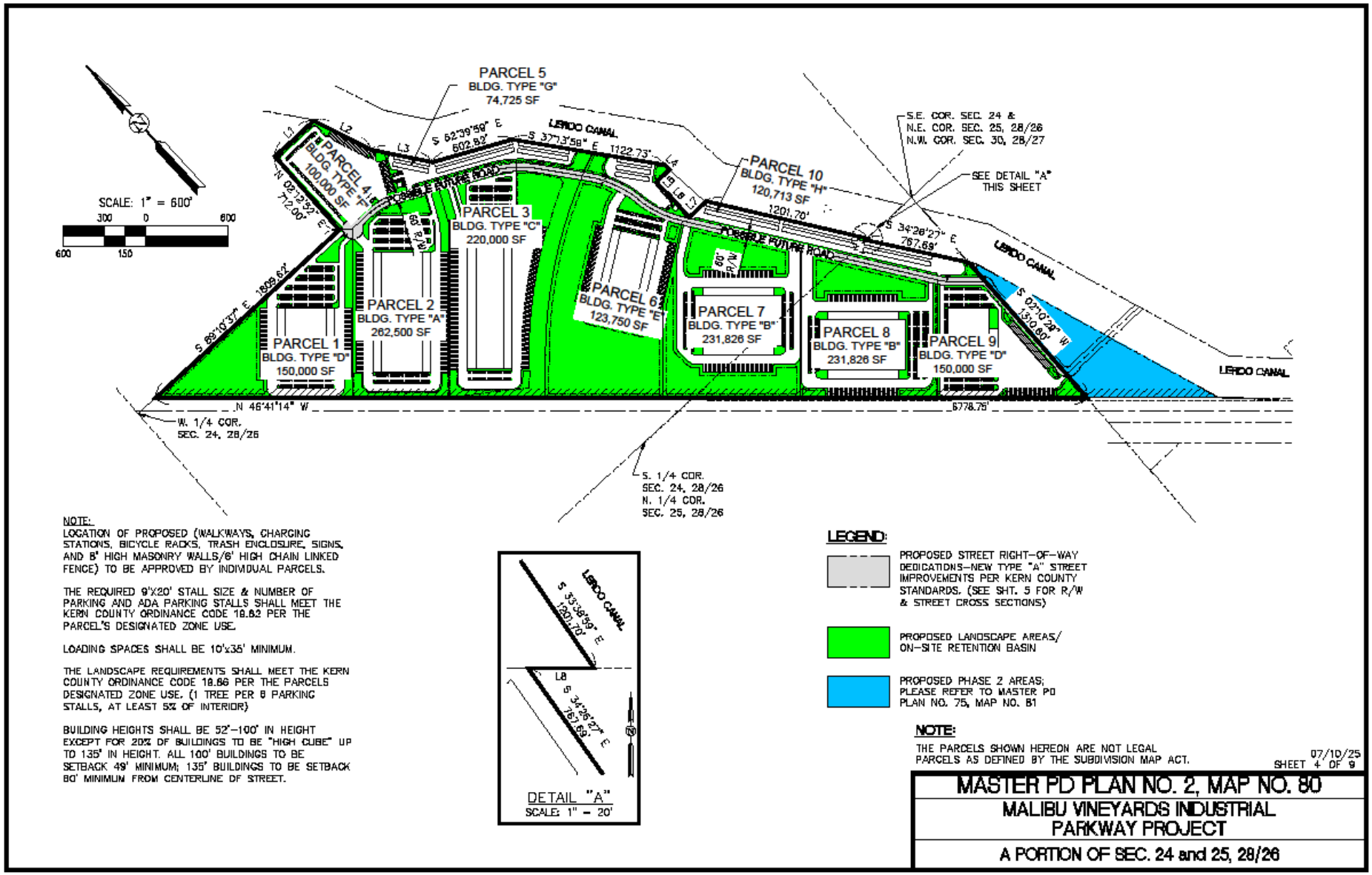
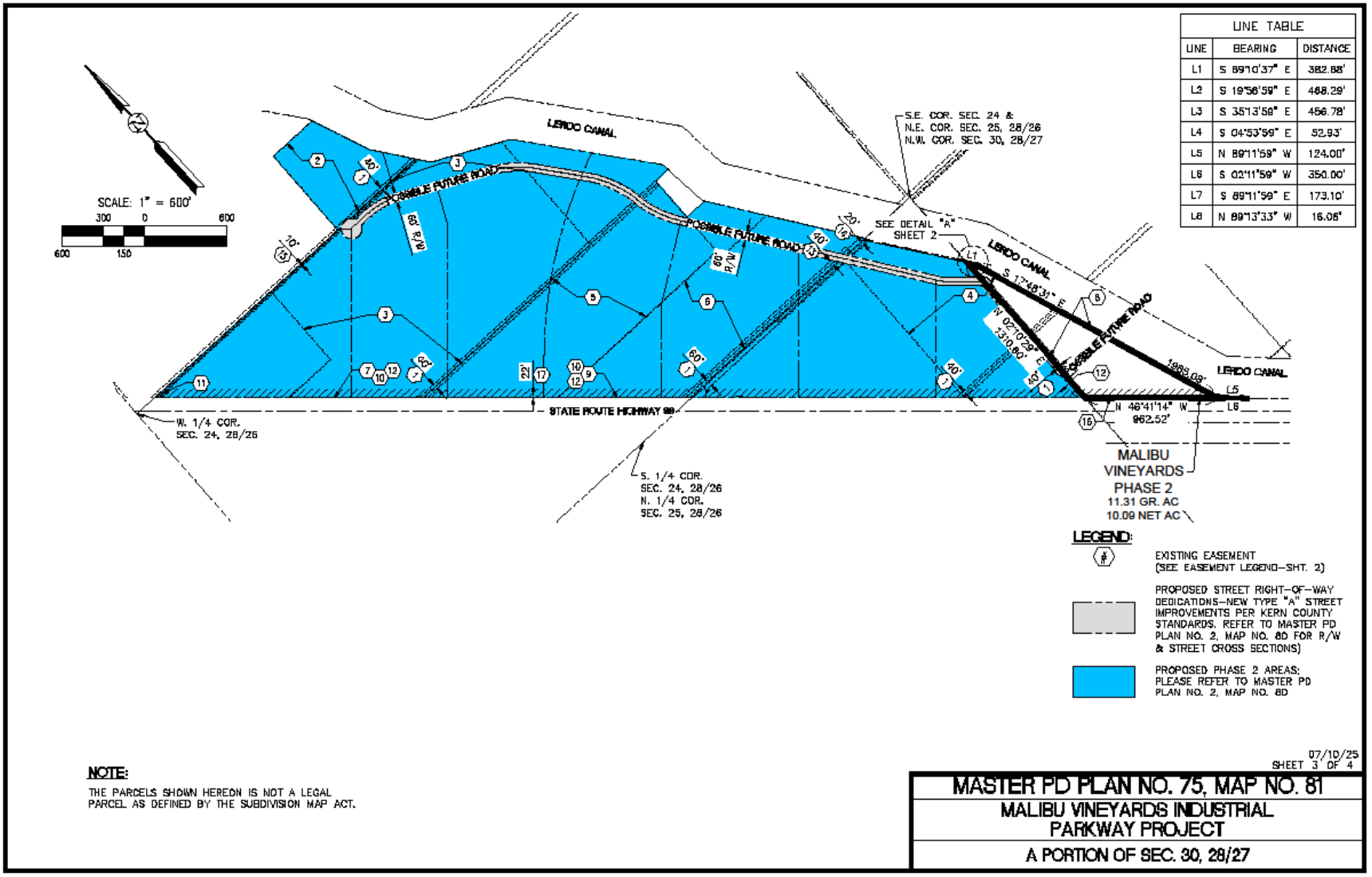


Figure 7 Phase Two Site Plan (PD Plan No. 75, Map 81)



2.0 Land Use, Open Space and Conservation Element Kern County General Plan

2.1 Special Treatment Areas

Assumptions: Special Treatment Areas

Per the Kern County General Plan, localized issues, problems, and opportunities will continue to require specific, individualized treatment to ensure that a solution to problems or realization of opportunities is reflective of the needs of local residents. The size and complexity of Kern County forces recognition of localized needs. Use of area and specific plans will continue as basic tools under State law for addressing local needs.

The Kern County General Plan defines a "Land Project" as the following:

1. The subdivision contains 50 or more parcels of which any 50 are both (a) not improved with residential, industrial, commercial, or institutional buildings; and (b) offered for sale, lease, or financing for purposes other than industrial commercial, institutional, or commercial agricultural uses; and

2. The subdivision is located in an area in which less than 1,500 registered voters reside within the subdivision or within two miles of the proposed project boundary; and

3. The subdivision does not constitute a community apartment project as defined in Business and Professions Code Section 11004, a project consisting of condominiums as defined in Section 783 of the Civil Code, or a stock cooperative as defined in Business and Professions Code Section 11003.2.

Issues: Special Treatment Areas

Specific Plans and Rural Community Plans have been prepared in past years for a number of locations in the County. There are also small rural communities located throughout the County which would be impractical to address at a General Plan level of detail. The identity and character of these communities could easily be damaged by inappropriate treatment in a General Plan. Finally, areas have been identified through analysis of data and by identification during public involvement in the plan preparation process which has the potential for intensified, yet localized, development in the future.

Goals: Special Treatment Areas

1. To recognize the validity of existing Specific Plan and Rural Community Plan decisions and to identify areas for which similar detailed planning efforts should be undertaken in the future so as to best meet the needs and concerns of local residents.

Map Provisions: Special Treatment Areas

Map Code 4.1 (Accepted County Plan Areas) - A designation of areas for which specific land use plans have already been prepared and approved. These plans are accepted and incorporated by this reference and the respective land use map associated with each such plan is hereby adopted as the General Plan diagram for each such area. Each plan area is indicated on the General Plan map.

Policies: Special Treatment Areas

1. The land use map diagrams adopted for special treatment areas establish the land use patterns for these areas.

2. Applicant-initiated adopted Specific Plans that have not been implemented through the application of zoning and/or land division (where applicable) within five years of County approval or within five years of the adoption of the 2004 General Plan Update shall be viewed as inactive. The County utilizing a County-initiated General Plan Amendment process shall consider inactive application-initiated Specific Plans for recission.

3. Specific Plan Areas guidelines shall be used to ensure adequate consideration of the General Plan goals and policies governing development and resource management. (These guidelines are present in Kern County General Plan Appendix C).

Implementation Measures: Special Treatment Areas

A. Where particular policies or standards are not addressed within a Special Treatment Area, the provisions of the Kern County General Plan shall govern.

B. As each special treatment area, Map Code 4.3 (Specific Plan Required) or Map Code 4.2 (Interim Rural Community Plan), has a Specific Plan adopted pursuant to Government Code Section 65450 et seq., the map provision shall concurrently be changed to Map Code 4.1 (Accepted County Plan Area).

C. Zone the accepted plan areas in a manner which is consistent with their equivalent General Plan designation.

D. The County shall continually review adopted Specific Plans. Inactive Specific Plans, as noted in Policy No. 2, may be considered for County initiated recission.

2.2 Industrial Land Use

Assumptions: Industrial

Because Kern County exports the bulk of its agricultural and mineral products in a raw form, manufacturing will continue to be a relatively small sector of the economy. The future of the manufacturing sector appears promising. Some reasons for anticipating growth in the future include convenient access to the Los Angeles and southern California markets, availability of industrial land with adequate transportation and public services, a stable labor force, an affordable housing market, and proximity to sources of raw materials and products. The growth of the manufacturing sector can add greatly to economic activity and wealth. The value added by the processing of raw products could be captured in Kern County and could provide new jobs in the basic (exporting) sector of the economy which, in turn, could support increased demand in the service sector.

Issues: Industrial

Of primary concern to industrial development is a location relative to resources, labor

supplies, transportation, and energy sources. Conflicts can occur when industrial development takes place in areas that are then precluded from resource production or which cause problems of incompatibility with adjacent land uses.

Infrastructure for industrial projects, while well established in the urban areas of Kern County, should be carefully analyzed for any future development. Appropriate siting of industrial development in consideration of the available water and sewer connections, proper access, and road level of service must be determined to prevent any undue burden on established industries or other established developments.

Goals: Industrial

1. Ensure that an adequate and geographically balanced supply of land is designated for a range of industrial purposes.

2. Promote the future economic strength and well being of Kern County and its residents without detriment to its environmental quality.

3. Ensure compatibility with land use designations such as residential, commercial, or other land uses that may be affected by such activities.

Map Provisions: Industrial

Service Industrial (Map Code 7.2) - Commercial or industrial activities which involve outdoor storage or use of heavy equipment. Such uses produce significant air or noise pollution and are visually obtrusive.

Uses shall include, but are not limited to, the following:

Automobile and truck parking, storage and repair shops, freighting or trucking yards, bottling plants, breweries, welding shops, cleaning plants, and other manufacturing and processing activities.

Policies: Industrial

1. Locations for new industrial activities shall be provided with adequate infrastructure (water, sewage disposal systems, roads, drainage, etc.) to minimize effects on County services.

2. The land areas best suited for industrial activity by virtue of their location and other criteria will be protected from residential and other incompatible development.

3. Protect existing industrial designations from incompatible land use intrusion.

4. Provide for the clustering of new industrial development adjacent to existing industrial uses and along major transportation corridors.

5. Encourage upgrading the visual character of existing industrial areas through the use of landscaping, screening, or buffering.

6. Require that industrial uses provide design features such as screen walls, landscaping, increased height and/or setbacks, and lighting restrictions between the boundaries of adjacent residential land use designations so as to reduce impacts on residences due to light, noise, sound, and vibration.

7. The County shall give priority to proposed industrial developments where:

    a. Specific uses are proposed in conjunction with submittal of a concurrent precise development plan; and

    b. Where multiple phases, tenants, or lots are proposed through the adoption of a master precise development plan in conjunction with a General Plan Amendment.

8. Any proposed development within the Specific Plan area shall require a Precise Development Plan be prepared and approved prior to disturbance of the site.

9. Prior to approval, all new discretionary industrial projects in the Airport Influence Areas will be reviewed for compatibility with the Airport Land Use Compatibility Plan.

10. Where feasible, locate future industrial activities in close proximity to railroad facilities and inter- and intra-State transportation corridors to minimize extensive travel through urban areas and to promote alternative transportation of goods.

Implementation Measures: Industrial

1. Evaluation of applications for any General or Specific Plan Amendment to an industrial designation will include sufficient data for review to facilitate desirable new industrial development proposals consistent with General Plan policies, using the following criteria and guidelines:

    a. Location suitability with respect to market demand area.

    b. Provision of adequate access, ingress and egress facilities and services, and the mitigation of traffic impacts.

    c. Provision of adequate water, sewer, and other public services to be used.

    d. Provision of adequate on-site, nonpublic water supply and sewage disposal if no public systems are available or used.

    e. Compatibility with adjacent uses (scale, noise, emissions, or other nuisances, etc.) and methods for buffering.

    f. Design, layout, and visual appearance coordinated with existing adjacent industrial uses.

    g. Overall consistency with the General Plan.

2. Develop information and data on industrial land use, trends, employment, and production. Monitor changes in location of industrial land supply and demand. Identify opportunities and constraints for new industrial development.

3. All General Plan Amendments, zone changes, conditional use permits, discretionary industrial developments, and variations from height limits

established by zoning for properties which are located in the Airport Influence areas or near a military airport shall be reviewed by the Planning Department for compatibility with the Kem County Airport Land Use Compatibility Plan.

3.0 Land Use Element Metropolitan Bakersfield General Plan

Goals

The following presents the goals and policies for land use in the Metropolitan Bakersfield General Plan area. Implementing programs are contained in the following sub-section.

1. Accommodate new development which captures the economic demands generated by the marketplace and establishes Bakersfield's role as the capital of the southern San Joaquin Valley.

2. Accommodate new development which provides a full mix of uses to support its population.

3. Accommodate new development which is compatible with and complements existing land uses.

4. Accommodate new development which channels land uses in a phased, orderly manner and is coordinated with the provision of infrastructure and public improvements.

5. Accommodate new development that is sensitive to the natural environment, and accounts for environmental hazards.

6. Establish a built environment which achieves a compatible functional and visual relationship among individual buildings and sites.

7. Target growth companies that meet clean air requirements, and create sustainable employment in jobs paying higher wages.

Policies

Goals will be achieved through the following policies which set more specific directions and guide actions. For ease of implementation, policies have been arranged with respect to land use designations they influence.

Land Use Designations

1. Provide for the following types of land uses, as depicted on the Land Use Plan:

    a. Industrial

        i. Service (SI - .4 FAR, 6 stories): Industrial activities which involve outdoor storage or use of heavy equipment. Such uses produce significant air or noise pollution and are visually obtrusive.

Industrial Development

1. Allow for a variety of industrial uses, including land-extensive mineral extraction and processing, heavy manufacturing, light manufacturing, warehousing and distribution,

transportation-related, and research and development uses.

2. Protect existing industrial designations from incompatible land use intrusions.

3. Encourage the efficient use of existing industrial land uses through consolidation of building and storage facilities.

4. Provide for the clustering of new industrial development adjacent to existing industrial uses and along major transportation corridors.

5. Encourage upgrading of visual character of industrial areas through the use of landscaping or screening of visually unattractive buildings and storage areas.

6. Require that industrial uses provide design features, such as screen walls, landscaping and height, setback and lighting restrictions between the boundaries of adjacent residential land use designations so as to reduce impacts on residences due to light, noise, sound and vibration.

7. Street frontages along all new industrial development shall be landscaped.

8. Minimize impacts of industrial traffic on adjacent residential parcels through the use of site plan review and improvement standards.

Implementation

The following are programs to be carried out by the City of Bakersfield and County of Kern to implement the goals and policies of the Land Use Element. This listing is not to limit the scope of implementation of this plan. State law requires that planning agencies recommend various methods of implementation of the general plan as part of their on-going duties.

1. Subdivision Regulations – Subdivision regulation is required by state law to control the manner in which land is divided. Subdivision map approvals must be consistent with the general plan. Local subdivision regulations should be reviewed and amended as appropriate to reflect the land use goals, objectives, policies and standards.

2. Specific Plans – State law (Government Code Section 65450) authorizes cities and counties to prepare Specific Plans for the systematic implementation of the general plan for all or part of the area covered by the general plan. Specific Plans are intended to provide more definite specifications of the type of uses to be permitted, development standards (setbacks, heights, landscape, architecture, etc.) and circulation and infrastructure improvements.

3. Development Review – In the county, any development within the M-2 zone classification requires approval of a Special Development Standards Plot Plan Review. This review enables the county to formally review projects for compliance with urban development standards and obtain necessary street dedications and improvements. The review is performed at the staff level, therefore public hearings are not held on these projects. Site zoning that requires a Precise Development Plan is for discretionary projects that must be found consistent with the general plan.

Projects considered ministerial are not reviewed for consistency with the general plan, whereas discretionary projects must be consistent with the general plan.

4. Environmental Review – Local guidelines for project processing shall reflect California Environmental Quality Act (CEQA) Guidelines which state that the environmental effects of a project must be taken into account as part of project consideration.

5. Design Review – The goals, objectives, policies and standards contained in the Land Use Element encourage architectural and site compatibility in designated areas.

4.0 General Provisions

The Specific Plan applies exclusively to street and lot design, road improvements, and visual design standards for the land within its boundaries. Goals, policies and implementation measures contained within the various elements of the Kern County General Plan and Metropolitan Bakersfield General Plan remain in effect and are hereby incorporated by reference. The purpose of this Specific Plan is to provide details of the design and layout for the future development within the planning area as it is intended to act as a supplement to the adopted general plans.

Specific Plan Goals

In addition to the aforementioned goals, policies, and implementation measures, the following objectives shall be in addition to those contained within the various elements of the Kern County General Plan and the Metropolitan Bakersfield General Plan for the planning area:

1. Ensure that the County can accommodate anticipated future growth and development while maintaining a safe and healthful environment and a prosperous economy by preserving valuable natural resources, guiding development away from hazardous areas, and assuring the provision of adequate public services.

2. Accommodate industrial land uses as Kern County becomes a cost effective center and significant corridor for transporting goods throughout California and the United States.

3. Reduce the current unemployment rate in Kern County by increasing the amount of square footage for new businesses by over 8 million square feet and increase job opportunities.

4. Support local budgets by replacing lost tax revenue from closed traditional brick and mortar retail locations with new tax revenues generated by industrial buildings.

5. Meet the continued and expanding demand of the global e-commerce fulfillment services market that depend on warehousing and shipping capabilities to get products transported in the shortest amount of time.

6. Generate economic growth through tax revenue and boost the allocation of resources to improve infrastructure, utilities and public services throughout the county.

7. To provide future roadway improvement standards and lot design for the Specific Plan area.

8. To supplement the goals, policies and implementation measures of the Kern County General Plan and the Metropolitan Bakersfield General Plan as they apply to the Specific Plan area.

9. To assure consistency with the adopted goals and policies of the Kern County General Plan and the Metropolitan Bakersfield General Plan and the Malibu Vineyards Industrial Parkway Specific Plan.

Specific Plan Policies

1. The total development within the Specific Plan Boundary shall not exceed 8,907,446 million square feet.

2. Industrial land use designations shall be limited to the 7.2 (Service Industrial) and SI (Service Industrial) as identified in the Kern County General Plan and the Metropolitan Bakersfield General Plan.

3. Uses in the M-2 PD (Medium Industrial, Precise Development overlay) zone classification shall be permitted in accordance with the Kern County Zoning Ordinance.

Specific Plan Implementation Measures

1. All development within the Specific Plan area shall be improved to Kern County standards and ordinances.

2. All development shall comply with all applicable Kern County and State Codes and Ordinances for construction, access, water mains, fire flows, and fire hydrants.

3. The street name and addressing system proposed for the project site shall be consistent with the Kern County street naming and addressing system.

4. Provision of adequate access, ingress and egress facilities and services, and the mitigation of traffic impacts.

5. Development shall have overall consistency with the Kern County General Plan and the Metropolitan Bakersfield General Plan.

6. Should a conflict arise between the implementation measures within this Specific Plan, then the more restrictive implementation measure(s) shall prevail.

7. Changes in lot configuration, parcel sizes and the location of internal local roadways shall be considered to be in substantial conformance with the proposed conceptual plan and not require an amendment to the Specific Plan, unless sufficient evidence has been identified as determined by the Planning Director indicating that the proposed layout of the site would cause an adverse effect on the public health, safety and welfare.

8. Terms used in this Specific Plan shall have the same meaning as defined in the Kern County General Plan and Implementation Ordinances.

9. Conditional Use Permits, Zone Variances and Modifications as provided for in the current Kern County Zoning Ordinance will be allowed subject to County approval.

10. Modifications or amendments to the approved Specific Plan, other than minor changes, will be processed as a specific plan amendment and are subject to the specific plan approval procedures described herein and the current Kern County Plans and Ordinances.

11. All construction within the Specific Plan boundaries shall comply with provisions of the Kem County Code of Building Regulations and the various related mechanical, structural, seismic safety requirements, and plumbing codes.

4.1 Public Services and Facilities

Goals

1. To establish criteria to implement related infrastructure facilities for the development.

2. To provide and develop phased infrastructure (sewer, water, drainage, and roadways) in the Specific Plan area.

Policies

1. Locations for new industrial activities shall be provided with adequate infrastructure (water, sewer, drainage, roadways, etc.) to minimize the effects on County services.

2. New development should pay its pro rata share of the local cost of expansions in services, facilities, and infrastructure which it generates and upon which it is dependent.

3. The developer shall assume full responsibility for costs incurred in service extensions or improvements that are required to serve the project. Cost sharing or other forms of recovery shall be available when the service extensions or improvements have a specific quantifiable regional significance.

Implementation Measures

1. All infrastructure improvement plans shall be prepared in compliance with California Building Codes and the Kern County Code of Building Regulations prior to development.

2. All utilities shall conform to the Kern County Subdivision Ordinance and to standards of the specific service companies and public utility districts.

3. The individual project applicants shall provide public utility easements as required.

4. Exterior transformers, utility pads, cable television and telephone boxes shall be located out of view in public right-of-ways or screened with walls, fences, or vegetation.

5. Temporary overhead power and telephone facilities may be permitted only during construction.
6. The County shall develop fiscal impact guidelines and shall be responsible for reviewing fiscal impact analysis to identify the cost to the County of services, facilities, and infrastructure expansion which new discretionary development necessitates.

4.1.1 Air Quality

The project area is located within Kern County's portion of the San Joaquin Valley Air Basin and among one of the eight counties that comprise the district. The developer has agreed to enter into a Developer Mitigation Agreement (DMA)/Voluntary Emissions Reduction Agreement (VERA) with the San Joaquin Valley Air Pollution Control District (SJVAPCD) to assure proper mitigation of air quality impacts. VERA is an innovative CEQA mitigation measure that has been utilized to

reduce air quality impacts from development projects. The VERA is an enforceable mechanism for Lead Agencies to mitigate project emission through the review process and the developer will reduce the impact emissions to net zero. Development shall comply with SJVAPCD rules and regulations.

Goals

1. Protection of public health maintained through the attainment and maintenance of ambient air quality standards for various atmospheric compounds and the enforcement of emissions limits for individual stationary sources.

2. Minimize the possibilities of increased levels of on- and off-site project emissions.

3. To encourage alternate modes of transportation to the site from other areas of Kern County.

Policies

1. The air implications of new discretionary land use proposals shall be considered in approval of major developments. Special emphasis will be placed on minimizing air quality degradation in the desert to enable effective military operations and in the valley region to meet attainment goals.

2. In considering discretionary projects for which an Environmental Impact Report must be prepared pursuant to CEQA, the appropriate decision making body, as part of its deliberations, will ensure that:

    a. All feasible mitigation to reduce significant adverse air quality impacts have been adopted; and

    b. The benefits of the proposed project outweigh any unavoidable significant adverse effects on air quality found to exist after inclusion of all feasible mitigation. This finding shall be made in a statement of overriding considerations and shall be supported by factual evidence to the extent that such a statement is required pursuant to CEQA.

3. Kern County shall continue to work with the San Joaquin Valley Unified Air Pollution Control District and the Kern County Air Pollution Control District toward air quality attainment with federal, State, and local standards.
4. The County shall continue to implement the local government control measures in coordination with the Kern Council of Governments and the San Joaquin Valley Unified Air Pollution Control District.

Implementation Measures

1. The development phases of the project must comply with the Federal Clean Air Act to protect the health, safety, and welfare of the public.

2. All discretionary permits shall be reviewed in compliance with the mitigation measure of the certified Environmental Impact Report.

3. Work with transit providers to develop long-range transit strategies based on future and anticipated land use plans.

4.1.2 Archaeological, Paleontological, Cultural, and Historic Preservation

The project site has been extensively farmed and in agricultural use since the 1980's. Should paleontological or architectural resources be encountered during construction activities, standard mitigation shall be immediately implemented. Should human remains be discovered, work shall halt and the coroner shall be notified immediately per Health and Safety Code requirements.

Policy

1. The County will promote the preservation of cultural and historic resources which provide ties with the past and constitute a heritage value to residents and visitors.

Implementation Measures

1. Coordinate with the California State University, Bakersfield's Archaeology Inventory Center.

2. The County shall address archaeological and historical resources for discretionary projects in accordance with the CEQA.

3. In areas of known paleontological resources, the County should address the preservation of these resources where feasible.

4. The County shall develop a list of Native American organizations and individuals who desire to be notified of proposed discretionary projects. This notification will be accomplished through the established procedures for discretionary projects and CEQA documents.

5. On a project specific basis, the County Planning Department shall evaluate the necessity for the involvement of a qualified Native American monitor for grading or other construction activities on discretionary projects that are subject to a CEQA document.

4.1.3 Threatened and Endangered Species

Policies

1. Threatened or endangered plant and wildlife species should be protected m accordance with State and federal laws.

2. County should work closely with State and federal agencies to assure that discretionary projects avoid or minimize impacts to fish, wildlife, and botanical resources.

3. The County will seek cooperative efforts with local, State, and federal agencies to protect listed threatened and endangered plant and wildlife species through the use of conservation plans and other methods promoting management and conservation of habitat lands.

4. The County will promote public awareness of endangered species laws to help educate property owners and the development community of local, State, and federal programs concerning endangered species conservation issues.

5. Under the provisions of the California Environmental Quality Act (CEQA), the County, as lead agency, will solicit comments from the California Department of Fish and Game and the U.S. Fish and Wildlife Service when an environmental document (Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report) is prepared.

6. Riparian areas will be managed in accordance with United States Army Corps of Engineers, and the California Department of Fish and Game rules and regulations to enhance the drainage, flood control, biological, recreational, and other beneficial uses while acknowledging existing land use patterns.

Implementation Measures

1. Discretionary projects shall consider effects to biological resources as required by the California Environmental Quality Act.

2. Consult and consider the comments from responsible and trustee wildlife agencies when reviewing a discretionary project subject to the California Environmental Quality Act.

3. Pursue the development and implementation of conservation programs with State and federal wildlife agencies for property owners desiring streamlined endangered species mitigation programs.

4.1.4 Surface Water and Groundwater

Water System

Water service would be provided by Oildale Mutual Water Company (OMWC). Off-site improvements would include extension of OMWC's six-inch domestic water line and 12-inch non-potable water line, from Quinn Road along Imperial Street, to the southeast corner of the proposed project. Non-potable industrial water can be developed by OMWC using existing agriculture wells or new wells, as approved by CAWELO water district by agreement.

To facilitate water service, OMWC would need to annex the project area into its service area. The proposed annexation would involve 739 acres. The annexation would need to be considered and approved by the OMWC and the Kern County Local Agency Formation Commission in order to serve the project.

Goals

1. To promote adopted standards to maintain existing water quality.

2. To minimize groundwater pollution of manufacturing and industrial use.

Policies

1. All methods of sewage disposal and water supply shall meet the requirements of the Kern County Environmental Health Services Department and the California Regional Water Quality Control Board. The Environmental Health Department shall periodically review and modify, as necessary, its requirements for sewage disposal and water supply, and shall comply with any new standards adopted by the State for implementation of Government Code Division 7 of the Water Code, Chapter 4.5 (Section 13290-13291.7). (Assembly Bill 885; 2000).

2. Water related infrastructure shall be provided in an efficient and cost effective manner.

3. Ensure that water quality standards are met for existing users and future development.

4. Ensure that adequate water storage, treatment, and transmission facilities are constructed concurrently with planned growth.

5. Ensure that appropriate funding mechanisms for water are in place to fund the needed improvements resulting from growth and subsequent development.

6. Ensure maintenance and repair of existing water systems.

Implementation Measures

1. The appropriate agency should develop sewer and water master plans in areas where these services are lacking or deficient and in areas where urban development exists or is designated. Seek non-local sources of funding for implementing capital improvement plans.

2. Water service for new industrial development in all areas of the project boundary shall be by community water facilities. Water well locations shall be approved by the Kern County Health Department for sewer facility setback standards.

3. The method of supply and siting of water wells shall be provided pursuant to the Kern County Health Department Standards.

4. Water wells and water tanks shall not be located in a planned road alignment.

5. Water wells and water well site standards shall be pursuant to the Kern County Zoning Ordinance.

4.1.5 Sewage Disposal System

Wastewater collection would be provided by North of the River Sanitary District (NORSD) No. 1. The nearest sewer trunk is a 36-inch line in Norris Road approximately three miles southeast from the project site.

A new sewer trunk line would be installed from the existing 36-inch line to the future intersection of Imperial Street at Endes Street via public right of way along Coffee Road and 7th Standard Road. Additionally, phase one would require installation of a sewer lift station to reach the new sewer trunk line.

Policies

1. All methods of sewage disposal and water supply shall meet the requirements of the Kern County Environmental Health Services Department and the California Regional Water Quality Control Board. The Environmental Health Department shall periodically review and modify, as necessary, its requirements for sewage disposal and water supply, and shall comply with any new standards adopted by the State for implementation of Government Code Division 7 of the Water Code, Chapter 4.5 (Section 13290-13291.7). (Assembly Bill 885; 2000).

2. All development shall require utility connection to a community sewage treatment facility.

3. The developer shall provide plans delineating the location and gradient of a sewer line and treatment facilities.

Implementation Measures

1. The appropriate agency should develop sewer and water master plans in areas where these services are lacking or deficient and in areas where urban development exists or is designated. Seek non-local sources of funding for implementing capital improvement plans.

2. The location and gradient of the sewer lines are to be determined by the applicant's engineer in accordance with applicable Kern County Standards, NORSD specifications, and recommendations from the Regional Water Quality Control Board.

3. Installation of sewer lines for development and connection to a sewage treatment plant is required by this Specific Plan.

4. Minimum setback distances from sewage treatment facilities shall comply with Kern County Health Department requirements.
5. The project will be subject to the adherence to the District's specifications.

6. The project proponent will be responsible for connecting to the District's sewer system.

7. Implementation of the project shall require annexation to NORSD, including payment of all existing fess and applicable fees in order to provide service.

8. No septic/dry sewers allowed.

4.1.6 Drainage System

Stormwater would be collected by an on-site drainage system and conveyed to a detention basin to facilitate stormwater infiltration and metered discharge, emulating pre-development conditions. Each parcel will include an on-site retention basin dedicated for stormwater retention and management from the development. Since project construction would encompass an area greater than one acre, the project would be subject to a General Construction Permit under the National Pollution Discharge Elimination System (NPDES) permit program of the federal Clean Water Act.

As required under the General Construction Permit, the project proponent (or contractor) would prepare and implement a Stormwater Pollution Prevention Plan (SWPPP).

Policies

1. Street design and lot layout shall promote continuity for proper drainage flow and utility connections.

2. The developer shall provide drainage basins sized accordingly for stormwater retention and management.

Implementation Measure

1. Placement and sizing of the drainage sump site shall provide adequate size for ultimate development.

4.1.7 Emergency Response

The project area is served by the Kern County Sheriff's Department for law enforcement and public safety services (Kern County Sheriff's Office, 1350 Norris Road), Kern County Fire Department for fire protection services (Fire Station #62, 1652 Sunnyside Court), and Kern County Medical Emergency Services for medical care and emergency services.

Kern County will require fire hydrants and adequate diameter water pipelines for fire flow. Development plans shall be reviewed in compliance with all Kern County Uniform Fire Code, Standards and Ordinances with regards to fire hydrants, water flow, and emergency access.

Goals

1. Minimize injuries and loss of life and reduce property damage.

2. Ensure the availability and effective response of emergency services following a catastrophic event.

Policies

1. The County shall encourage extra precautions be taken for the design of significant lifeline installations, such as highways, utilities, and petrochemical pipelines.

2. The County shall require development for human occupancy to be placed in a location away from an active earthquake fault in order to minimize safety concerns.

Implementation Measures

1. The County shall review all development plans for preservation of any road or access easement for emergency access to maintain safe building setback along proposed roads. Alleys or rear access shall be provided if deemed necessary by the Kern County Fire Department.

2. Maintain adequate setbacks between oil/gas wells and development through the use of the zone districts DI (Drilling Island) and PE (Petroleum Extraction) and implementation of the uniform Fire Code 7904.32.3.

3. Require geological and soils engineering investigations in identified significant geologic hazard areas in accordance with the Kern County Code of Building Regulations.

4. Require that plans and permits for installation of major lifeline components such as highways, utilities, petroleum or chemical pipelines to incorporate design features to accommodate potential fault movement in areas of active faults without prolonged disruption of essential service or threat to health and safety.

4.1.8 Light and Glare

Policies

1. Ensure that light and glare from discretionary new development projects are minimized in rural as well as urban areas.

2. Encourage the use of low-glare lighting to minimize nighttime glare effects on neighboring properties.

3. Encourage lighting used on-site during construction be minimal. Site lighting may include motion sensor lights for security purposes.

Implementation Measures

1. The County shall utilize CEQA Guidelines and the provisions of the Zoning Ordinance to minimize the impacts of light and glare on adjacent properties and in rural undeveloped areas.

2. Adequate lighting shall be provided by the individual project applicants following the issuance of occupancy permits to enhance crime prevention and law enforcement efforts.

4.1.9 Economic Development and Smart Growth

Policies

1. Discretionary development projects should be encouraged to incorporate innovative or “smart growth” land use planning techniques as design features.

2. Employ land use policies that protect the County’s businesses from physical degradation and ensure orderly growth, thereby, sustaining opportunities for current and future generations to enjoy economic vitality.

3. Promote tourism-based businesses throughout the County.

4. Recognize the importance of major transportation corridors, airports, and rail lines as important economic tools for the establishment of commercial and industrial development and promotion.

5. Promote the utilization of the County by the film industry.

6. Provide for mixed land uses that offer a variety of employment opportunities and

enhance the County's economic assets to allow the capture of regional growth.

7. Promote improved public transportation service between major job centers and areas of transit dependency and high unemployment.

8. Support and work toward the elimination of disincentives for business and industry to prosper in Kern County, and create special economic development programs to encourage commerce and industry to locate in Kern County.

9. Support efforts to promote the County and its cities as an area with a positive business climate for commerce and industry.

Implementation Measures

1. Utilize the County's Economic Strategy and the Economic Incentive Program to promote economic growth and to maintain a strong local economy.

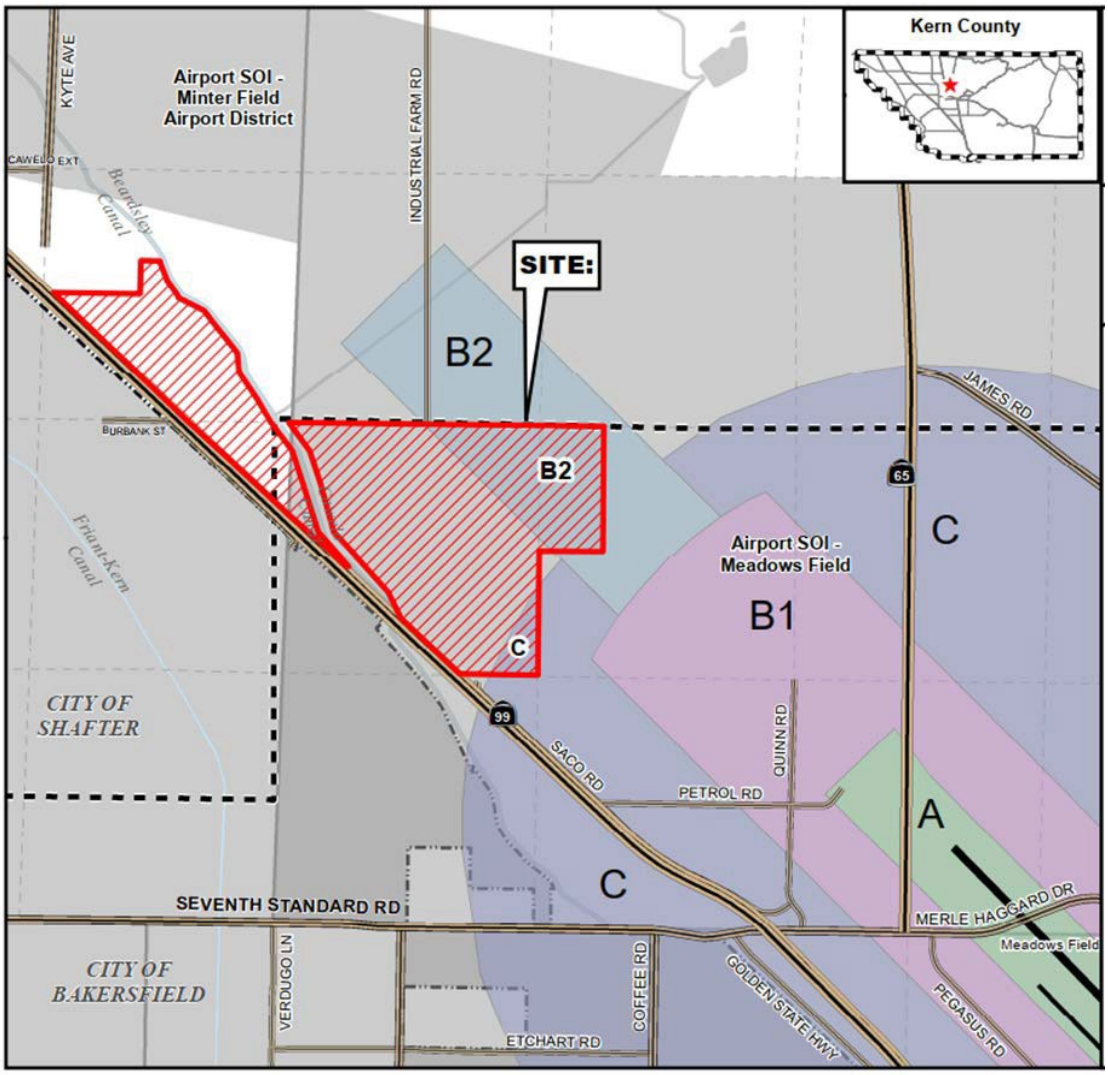
2. Develop Specific Plans for communities throughout the County which provide for a mix of land uses to promote employment opportunities and housing, while maintaining a good quality of life.

3. Allow for development of complementary businesses that take advantage of transportation corridors when providing infrastructure and services necessary to maintain adequate health and safety concerns.
4. Allow for compatible industrial and commercial growth, in conjunction with airport facilities, in accordance with the Airport Land Use Compatibility Plan.

4.1.10 Airport Land Use Compatibility Plan

Southern portions of the project site are within the Airport Land Use Compatibility Plan (ALUCP) for the Meadows Field Airport located approximately 1.5 miles southeast. These portions within phase one of the project are in ALUCP Zone B2, which may require a dedication of avigation easement and Zone C, which limits high-rise office buildings to no more than four stories. *See Figure 8 below.*

Figure 8 Airport Land Use Compatibility Plan



4.1.11 General Plan and Zoning Compatibility Matrix

Government Code Section 65860 requires that consistency exist between the General Plan, which represents long-range public policy, and the Zoning Ordinance of specific development regulations. The General Plan and Zoning Consistency Matrix is a method of defining consistency by comparing each zone district with land use categories set forth in the General Plan. The Matrix illustrates the suitability of the specific zoning districts with the policies specified in the text of the General Plan. *See Table 2 below*. The Matrix, which follows, applies two degrees of compatibility to land use designation and zoning:

1. Consistent: Zones which specifically implement the policies specified in the General Plan or allow uses found to be conditionally acceptable in such zones; and

2. Inconsistent: Zones which are inconsistent with General Plan policies for a particular land use designation.

Table 2 Kern County General Plan and Zoning Compatibility Matrix

KERN COUNTY GENERAL PLAN DESIGNATIONS AND ZONE DISTRICT CONSISTENCY MATRIX

ZONE CLASSIFICATION DISTRICT

GENERAL PLAN DESIGNATIONS	A(20)	A(80)	A-1	E(1/4)	E(1/2)	E(1)	E(21/2)	E(5)	E(10)	E(20)	R-1	R-2	R-3	MP		CO	C-1	C-2	CH		M-1	M-2	M-3		RF	OS	NR(5)	NR(10)	NR(20)	NR(40)	DI	FPP	SP	PL
1.1 State and Federal Land	•	•																							•	•	•	•	•	•		•	•	
1.2 Incorporated Cities																																		
3.1 Parks and Recreation	▲		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲											▲	▲	▲	▲	▲	▲		▲	▲	
3.2 Educational Facilities	▲		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲											▲	▲						▲	▲	
3.3 Other Facilities	▲		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲	▲		▲	▲	▲		▲	▲	▲	▲	▲	▲		▲	▲	
3.4 Solid Waste Disposal Facility	•																					•	•				•	•	•	•				
3.4.1 Solid Waste Disposal Facility Buffer	•																					•	•				•	•	•	•				
3.5 Hazardous Waste Disposal Facilities Land Disposal Method	•																						•				•	•	•	•				
3.6 Hazardous Waste Disposal Facilities Underground Injection Method	•																						•											
3.7 Other Waste Facility	•																	•	•		•	•	•		•		•	•	•	•				
3.7.1 Other Waste Facility Buffer	•																	•	•		•	•	•		•		•	•	•	•				
4.1 Accepted County Plan Areas	•		•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•		•	•	•	•	•	•	•	•	•	
4.2 Interim Rural Community Plan	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	•		•	•			•	•					•	•	•	
4.3 Specific Plan Required	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•		•	•	•	•	•	•	•	•	•	
5.1 Max. 29 DU/Net Acre	•			•	•	•	•	•	•	•	•	•	•	•												•					•	•	•	
5.2 Max. 16 DU/Net Acre	•			•	•	•	•	•	•	•	•	•		•												•					•	•	•	
5.3 Max. 10 DU/Net Acre	•			•	•	•	•	•	•	•	•			•												•					•	•	•	
5.4 Max. 4 DU/Net Acre	•			•	•	•	•	•	•	•				•												•					•	•	•	
5.45 Max. 2 DU/Net Acre	•				•	•	•	•	•	•				•												•					•	•	•	
5.5 Max. 1 DU/Net Acre	•					•	•	•	•	•				•												•					•	•	•	
5.6 Min. 2.5 Gross Acres/1 DU	•		•				•	•	•	•				•												•	•	•	•	•	•	•	•	
5.7 Min. 5 Gross Acres/1 DU	•							•	•	•				•											•	•	•	•	•	•	•	•	•	
5.75 Min. 10 Gross Acres/1 DU	•							•	•	•				•												•			•	•	•	•	•	
5.8 Min. 20 Gross Acres/1 DU	•									•				•												•				•	•	•	•	
6.1 Regional Commercial	•															•	•	•	•		•					•					•	•	•	
6.2 General Commercial	•															•	•	•	•		•				•	•					•	•	•	
6.3 Highway Commercial	•															•	•	•	•		•				•	•					•	•	•	
7.1 Light Industrial	•															•	•	•	•		•					•					•	•	•	
7.2 Service Industrial	•															•	•	•	•		•	•				•					•	•	•	
7.3 Heavy Industrial	•															•	•	•	•		•	•	•			•					•	•		
8.1 Intensive Agriculture (Min. 20 Acres)	•	•																								•				•	•	•	•	•
8.2 Resource Reserve (Min. 20 Acres)	•	•																								•				•	•	•	•	•
8.3 Extensive Agriculture (Min. 80 or 20 Acres)	•	•																								•						•	•	•
8.4 Mineral and Petroleum (Min. 5 Acres)	•	•																								•	•	•	•	•		•	•	•
8.5 Resource Management (Min. 20 Acres)	•	•																								•						•	•	•

NOTE: THE MATRIX IS A GUIDE THAT SHOULD BE USED IN CONJUNCTION WITH THE POLICIES AND PROVISIONS OF THE GENERAL PLAN

NOTE: THE COMBINING ZONE DISTRICTS ARE NOT INCLUDED IN THIS MATRIX, BUT ARE CONSIDERED CONSISTENT WITH THE GENERAL PLAN DESIGNATIONS FOR WHICH THEIR PRIMARY ZONE DISTRICT ARE CONSISTENT.

▲ PUBLIC/PRIVATE FACILITIES ONLY • CONSISTENT □ INCONSISTENT

Table 3 Metropolitan Bakersfield General Plan and Zoning Compatibility Matrix

Metro Bakersfield General Plan

Land Use and Zoning Consistency Matrix

Map Code Designation	Zone Classification																														
	A (20)	A (80)	A-1	E (1/4)	E (1/2)	E (1)	E (2 1/2)	E (5)	E (10)	E (20)	R-1	R-2	R-3	MP	CO	C-1	C-2	CH	M-1	M-2	M-3	RF	OS	NR (5)	NR (10)	NR (20)	NR (40)	DI	FPP	SP	PL
P - Public Facilities	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PS - Public and Private Schools	•		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•		•	•	•	•			•	•
PT - Public Transportation	•														•	•	•	•	•	•	•		•	•	•	•	•		•	•	
P-SW - Solid Waste Facility Sites	•																			•	•			•	•	•	•				
OS - Open Space	•	•																					•						•	•	
OS-P - Open Space-Parks	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•		•			•	•	•	•	•	•		•	•	
OS-S - Open Space-Slopes	•	•																				•	•						•	•	
RR - Rural Residential	•		•				•	•	•	•				•		•						•	•					•	•		
ER - Estate Residential	•		•			•	•	•	•	•				•		•							•					•	•		
SR - Suburban Residential	•			•	•	•	•	•	•	•				•		•							•					•	•		
LR - Low Density Residential	•			•	•	•	•	•	•	•	•			•		•							•					•	•		
LMR - Low Medium Density Residential *	•			•	•	•	•	•	•	•	•	•		•		•							•					•	•		
HMR - High Medium Density Residential	•			•	•	•	•	•	•	•	•	•		•		•							•					•	•		
HR - High Density Residential	•			•	•	•	•	•	•	•	•	•	•	•		•							•					•	•		
OC - Office Commercial	•											•	•		•							•	•					•	•		
HC - Highway Commercial	•														•	•	•	•	•			•	•					•	•		
GC - General Commercial	•											•	•		•	•	•	•	•			•	•					•	•		
MC - Major Commercial	•											•	•		•	•	•	•	•			•	•					•	•		
MUC - Mixed Use Commercial	•											•	•		•	•	•	•	•				•					•	•	•	
LI - Light Industrial	•														•	•	•	•	•				•					•	•		
SI - Service Industrial	•														•	•	•	•	•	•			•						•		
HI - Heavy Industrial	•														•	•	•	•	•	•	•		•						•		
R-IA - Intensive Agriculture	•																						•			•	•		•		•
R-EA - Extensive Agriculture	•	•																					•			•	•		•		•
R-MP - Mineral & Petroleum	•																					•	•	•	•	•	•		•		•

NOTE: THE MATRIX IS A GUIDE THAT SHOULD BE USED IN CONJUNCTION WITH THE POLICIES AND PROVISIONS OF THE GENERAL PLAN.

NOTE: THE COMBINING DISTRICTS ARE NOT INCLUDED IN THIS MATRIX, BUT ARE CONSIDERED CONSISTENT WITH THE GENERAL PLAN DESIGNATIONS FOR WHICH THEIR PRIMARY ZONE DISTRICT ARE CONSISTENT.

• CONSISTENT ☐ INCONSISTENT

* Low Medium Density Residential (LMR) is consistent with the R-2 District when the development density is equal to or less than ten (10) dwelling units per net acre.

5.0 Noise Element

The State, recognizing the effects of noise upon people's health and well being, required that local jurisdictions prepare statements of policy indicating their intentions regarding noise and noise sources, establish desired maximum noise levels according to land use categories, set standards for noise emission from transportation facilities and fixed-point sources, and prepare a program for implementation of noise control measures. Noise Elements are mandatory per Government Code Section 65302 (f) and are prepared in accordance with Guidelines for the Preparation and Content of Noise Elements of the General Plan published by the California Office of Noise Control in 1976.

The major purpose of the Noise Element is to: (1) establish reasonable standards for maximum desired noise levels in Kem County, and; (2) develop an implementation program which could effectively deal with the noise problem.

Goals

1. Ensure the residents of Kern County are protected from excessive noise and that moderate levels of noise are maintained.

2. Protect the economic base of Kern County from the harmful effects of exposure to excessive noise, and by preventing the encroachment of incompatible land uses near known noise producing roadways, industries, railroads, airports, oil and gas extraction, and other sources.

Policies

1. Require noise level criteria applied to all categories of land uses to be consistent with the recommendations of the California Division of Occupational Safety and Health (DOSH).
2. Encourage vegetation and landscaping along roadways and adjacent to other noise sources in order to increase absorption of noise.
3. Utilize good land use planning principles to reduce conflicts related to noise emissions.
4. Ensure that new development in the vicinity of airports will be compatible with existing and projected airport noise levels as set forth in the ALUCP.
5. Employ the best available methods of noise control.

Implementation Measures

1. Utilize zoning regulations to assist in achieving noise-compatible land use patterns.

2. Require proper acoustical treatment of transportation facilities, including highways, airports, and railroads.

3. Review discretionary development plans to ensure compatibility with adopted ALUCP.

4. Require proposed commercial and industrial uses or operations to be designed or arranged so that they will not subject residential or other noise sensitive land uses to

exterior noise levels in excess of 45 dB CNEL.

6.0 Specific Plan Administration

6.1 Approval Authority

The Planning Director's responsibilities include the administration, interpretation, and enforcement of the Malibu Vineyards Industrial Parkway Specific Plan requirements and development standards, including the acceptance and processing of all land use permit applications. The Planning Director or his/her designee may approve development permits that meet the requirements of this Specific Plan and may approve, conditionally approve, or deny minor requests for waiver of Specific Plan standards. The Planning Director may impose conditions of approval or make interpretations of the Specific Plan, which may be appealed to the Planning Commission. The Planning Director may refer matters involving development issues to the Planning Commission, and may consult with the County Council attorneys on questions of interpretation.

6.1.1 Required Findings

An application for a Precise Development Plan Review (for a permitted use) or Conditional Use Permit (for a conditionally permitted use) may be approved or conditionally approved if, on the basis of application, plans, materials, and/or testimony submitted, the following findings can be made:

1. The project is consistent with the Malibu Vineyards Industrial Parkway Specific Plan, the Kern County General Plan, and the Metropolitan Bakersfield General Plan;

2. The project can provide the appropriate infrastructure and resources for water, sewer and electrical service; and

3. The project has demonstrated compliance with the Mitigation Measures identified within the General Plan Amendment Environmental Impact Report.

6.1.2 Implementation

The Malibu Vineyards Industrial Parkway Specific Plan will be implemented through the processing of parcel maps, minor land divisions and mergers, and Precise Development plans for modifications. The implementation process provides the mechanism for reviewing development plans and ensuring consistency with the Specific Plan objectives. The processes for the amendment of this Specific Plan are also provided in this chapter. All development within the Specific Plan is subject to the implementation procedures described herein.

Development Plan Review

The purpose of this section is to provide a process for the implementation and review of all site plans and precise development plans that will be required to implement the development and construction of this Specific Plan. An application for design review of the precise development plan is required prior to the issuance of any building permit within the Specific Plan area.

Specific Plan Amendments

Approval of this Specific Plan indicates acceptance by the Kern County Board of Supervisors of a general framework for development of the Specific Plan area. Part of that framework establishes specific development standards that constitute the zoning regulations for the Specific

Plan area. It is anticipated that certain modifications to the Specific Plan text, exhibits, and/or project may be necessary during the development of the project. Any modifications to the Specific Plan shall occur in accordance with the amendment process described in this section. These amendments, should they occur, are divided into two categories.

Time Limitations

An application for the modification of the master precise development plan shall be filed with the Planning Department in compliance with the Kern County Zoning Ordinance. Submittals will include, but are not limited to, new site plans. Each design approval granted through the precise development plan review process shall be acted upon within thirty days of submittal. Specific Plan amendments shall be processed efficiently and streamlined. Preliminary review comments for a Specific Plan amendment shall be provided within forty-five days of submittal.

Phasing Plan

Construction of the Malibu Vineyards Industrial Parkway Specific Plan will be phased in a logical sequence, in response to market demands. Ultimate phasing by recordation of phased final parcel maps will be finalized at time of sale to merchant builders based on market demands.

Phasing for the Malibu Vineyards Industrial Parkway Specific Plan will allow initial development to take place near Imperial Avenue and Imperial Road and gradually reach the northern portions of the Specific Plan area. Adjustments to the phasing sequence and sizes are permitted provided that utilities and public facilities are available to service the phase in question.

Future street improvements to access phase two shall be implemented in conjunction with the widening of Burbank Street and construction of the future canal and freeway overpass expansion.

Appendix C

Farmland Conversion Study

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FARMLAND CONVERSION STUDY REPORT

For:

Malibu Vineyards Industrial Park
738.48 Acres
North of Imperial Road and East of Hwy 99
County of Kern, State of California

Portions of Sections 24 and 25, Township 28 South, Range 26 East,
And, Sections 29 and 30, Township 28 South, Range 27 East M. D. B. & M.

Prepared for:

Malibu Vineyards, LP

Prepared by:

McIntosh & Associates
McIntosh & Associates Engineering, Inc. © 2020
2001 Wheelan Court
Bakersfield, California 93309
(661) 834-4814

Project No. 04-157

September 2021

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1.0 Project Setting

1.1 Introduction

As the United States continues to urbanize, one of the many challenges facing Kern County is blending the need to preserve agricultural land and open space with the demand for development in metropolitan edges. Projects involving changes in land use sometimes convert agricultural lands to non-agricultural uses. Conserving productive agricultural lands requires a careful project-specific evaluation of the direct and indirect effects, as well as the cumulative effects, of agricultural land conversion. This study provides a checklist of items that should be considered by those analyzing the proposed project site. In order to analyze the proposed project's potential impact to agricultural lands, this study utilized factors identified in the Metropolitan Bakersfield General Plan (MBGP), Kern County General Plan (KCGP), and the California Department of Conservation's *California Agricultural Land Evaluation and Site Assessment (LESA) Model* (Appendix "J").

1.2 Project Description

This Farmland Conversion Study addresses the conversion of approximately 738.48+/- acres of agricultural land located north of Imperial Road and east of Hwy 99, generally north of the City of Bakersfield to industrial uses. The subject property is located within the County of Kern and State of California within portions of Sections 24 & 25 , Township 28 South, Range 26 East; and Sections 29 & 30, Township 28 South, Range 27 East, Mount Diablo Meridian (refer to Appendix "A").

The property is identified as Assessor's Parcel Number's: 482-010-01, 02, and 03; 091-150-03, 091-160-02, and 03; 091-160-02 and 03; 091-160-01; 091-160-13; 091-160-09; 091-160-16; 091-200-04 and 05; 091-200-13 and 14; 091-200-07; 091-160-16 (portion); 482-040-01 and 03; 482-040-02; 482-040-04; 482-010-11; and 482-040-05. The property is comprised of two (2) phases. Phase 1 includes 533.84 acres and is located between Burbank Street to the north and Imperial Avenue to the south, between the Lerdo Canal and Imperial Road to the west and east, respectively including that portion of the west half of the northwest quarter of Section 29 lying east of Imperial Road. Phase 2 includes approximately 204.64 acres including the property between State Hwy 99 and the Lerdo Canal, to the west and east respectively, lying south of Lerdo Hwy and north of Imperial Avenue. According to the United States Geological Survey (USGS) Oildale and Rosedale 7.5-minute quadrangle maps and visual inspection of the property, a majority of the topography of the site is flat, but slopes slightly from northeast to southwest. The property elevation ranges from approximately 550 to 450 feet above mean sea level at the center of the site.

The subject property is presently and has historically been used for agriculture. The property is mostly covered with grape vineyards with a structure located in

the eastern portion of the site. The structure appears to be used as a storage building and is associated with agricultural activities. The site includes outdoor storage of various farm related operational equipment, along with a fenced and secured concrete floor storage shed for pesticides. The project site is adjacent to agricultural uses and the nearest cluster of single-family residential homes are approximately 5,000-feet to the east between Amos Road and along Burbank Street. Some vacant land lies east of the easterly portion of property. Agricultural uses to the north. Highway 99 is adjacent to the west. Industrial uses lie east of the property approximately 5,000-feet along Hwy 65, and 5,500-feet to the south.

According to the County maintained Metropolitan Bakersfield General Plan-West (MBGP-W) and Kern County General Plan – Central Section (GP-Central), the current land use designation for the subject property is R-IA and 8.1 Intensive Agriculture). According to the Kern County Zoning Ordinance, the entire subject property is currently zoned A (Exclusive Agriculture). The property owner is proposing to change the zoning and amend the MBGP-W and GP-Central to change the property land use designation as follows:

Table 1 Proposed Land Use and Zoning

Proposed Land Use and Zoning					
`General Plan Amendment			**Zone Change**		
From	***To***	***Acres***	***From***	***To***	***Acres***
8.1/R-IA – Intensive Agriculture	SI (Service Industrial)	738.48+/-	A - (Exclusive Agriculture)	M-2 (Medium Industrial) / PD – (Precise Development)	738.48+/-

1.3 Purpose of Study

This Farmland Conversion Study addresses the conversion of approximately 738.48+/- acres of agricultural land to non-agricultural uses, and identifies impacts, mitigation, and significance after mitigation. The majority of subject property is within the MBGP planning area, the remaining northern portion is within the KCGP, and subject to the California Environmental Quality Act.

The Lead Agency (County of Kern) typically bases a determination of agricultural resources significance on the thresholds established by the CEQA Guidelines. The Environmental Checklist Form of the CEQA Guidelines (Appendix "G"), contains a list of impacts that may be deemed potentially significant. The lead agency should address questions from this checklist that are relevant to a projects environmental effects. The questions from Appendix "G", pertaining to agricultural resources follow:

Agricultural Resources - In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the

California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland.

Would the Project:

a. *Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

b. *Conflict with existing zoning for agricultural use or a Williamson Act Contract?*

c. *Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?*

2.0 Regulatory Setting

2.1 Land Conservation (Williamson) Act

The California Land Conservation Act of 1965, also known as the Williamson Act, was established with the basic intent of encouraging the preservation of the state's agricultural lands in view of the increasing trends toward their "premature and unnecessary" urbanization. The Williamson Act enables local governments to enter into contracts with private landowners for the purpose of restricting specific parcels of land to agricultural or related open space use. In return, landowners receive property tax assessments, which are much lower than normal because they are based upon farming and open space uses as opposed to full market value. Local governments receive an annual subvention of forgone property tax revenues from the state via the Open Space Subvention Act of 1971.

The State Department of Conservation passed legislation in 1998 that would allow individual counties to establish an additional program for farmlands to enter into contract with the State to receive a similar benefit as the Williamson Act contract. The Farmland Security Zone is a 20-year self-renewing contract that allows property owners with qualifying parcels to receive an additional 35 percent in tax savings above that which is received under the Williamson Act land use contract.

The total acres of prime and nonprime farmland reported to the State Department of Conservation with the Kern County annual Subvention Report for 2019 were 1,472,603.10* acres of prime and nonprime land under a California Land Conservation (Williamson) Act contract, and 176,596.96 acres enrolled in Farmland Security Zone contracts (Kern County Planning – Board of Supervisors report October 15, 2019). **Note Kern County cover letter dated October 15, 2019 incorrectly*

summarizes acreage as 1,462,603.10. Tables reflect 595,648.63 Prime and 876,954.47 nonprime which total 1,472,603.10 acres.

Both of these contracts require that lands be within an established agricultural preserve. Agricultural lands that are not under contract face the greatest threat for conversion, as they are assessed higher property taxes due to their proximity to urbanization.

According to the Kern County Planning Department, the property is within the boundaries of Agricultural Preserve No. 8. None of the subject property is subject to a Williamson Act land use contract.

2.2 Trends of Farmland Conversion in the County

According to the California Land Conservation (Williamson) Act 2019 Status Report, prepared by the Department of Conservation, maintained by Kern County annual Subvention Report, the following is a breakdown of contracted lands receiving benefit of decreased property taxation for 2019 (See Table 2).

Table 2 Land receiving benefit of California Land Conservation (Williamson) Act 2019

California Land Conservation (Williamson) Act 2019		
Williamson Act Contract	Prime	595,648.63 acres
	Non-Prime	876,954.47 acres
Non-contracted *	Prime	14,166.69 acres
	Non-Prime	28,441.93 acres
Farmland Security Zone Contract - Urban	Prime	14,212.87 acres
	Non-Prime	0 acres
Farmland Security Zone Contract – Non-Urban	Prime	162,384.09 acres
	Non-Prime	0 acres

* These lands have requested non-renewal of their contract and are in the process of "backing out" of the 9-year contract.

2.3 Metropolitan Bakersfield General Plan Provisions

The City of Bakersfield, in collaboration with Kern County, prepared the MBGP. This document establishes policies to provide decision-makers with long-range guidance affecting the future character of the Bakersfield planning area. The MBGP also acts to clarify and articulate the relationship and intentions of local government to the rights and expectations of the general public, property owners and prospective investors. Through the Plan, the City and County can inform these groups of its goals, policies and development standards, thereby communicating what must be done to meet the objectives of the MBGP.

The MBGP provides for the continuation of historical growth patterns in the western Bakersfield region by allowing for the greatest growth potential in this area. The land use goals of the MBGP provide for the accommodation of:

- New development which captures the economic demands generated by the marketplace and establishes Bakersfield's role as the capital of the southern San Joaquin Valley;
- New development which provides a full mix of uses to support its population;
- New development which channels land uses in a phased, orderly manner and is coordinated with the provision of infrastructure and public improvements;
- New development, which is compatible with and complements existing land uses.

The Elements within the MBGP that provide policies and implementation measures for the conservation and/or improvements on agricultural lands include the Land Use, Conservation, and Open Space Elements. Below is an outline of the applicable goals within these Elements:

- Allow for the continuance of agricultural uses in areas designated for future urban development;
- Provide for the planned management, conservation, and wise utilization of agricultural land in the planning area;
- Promote soil conservation and minimize development of prime agricultural land as defined by the following criteria:
    - Capability Class I and/or II irrigated soils;
    - 80-100 Storie Index rating;
    - gross crop return of $200 or more per acre per year;
    - annual carrying capacity of one animal unit per acre per year
- Establish urban development patterns and practices that promote soil conservation and that protect areas of agricultural production of food and fiber crops, and nursery products.

The Land Use Element of the MBGP outlines residential policies and implementation measures regulating how the land will be utilized.

2.4 Kern County General Plan Provisions

The KCGP is a policy document designed to give long-range guidance to those County officials making decisions affecting the growth and resources of the unincorporated Kern County jurisdiction, excluding the Metropolitan Bakersfield planning area.

According to the KCGP, agriculture has been, and will continue to be, vital to the economy of Kern County. The development of major water projects has greatly increased the amount of land in agricultural production during the last two decades. However, conflicts over the use of agricultural land frequently occur. As is the case for other urbanizing regions, the loss of valuable agricultural lands to urban development is a prime concern. Land division; even where actual development does not take place, can adversely affect the County's agricultural resource base. This is particularly a problem in extensive agriculture areas, such as rangeland, where land values can be significantly increased beyond values based on agricultural productivity.

The KCGP provides goals, policies, and implementation measures for the conservation and/or improvements on agricultural lands. Below is an outline of the policy that addresses General Plan Amendment proposals for agricultural land (KCGP, Land Use, Conservation, and Open Space Element, Section 1.9 - Resource Land Use Designation):

- When evaluating General Plan Amendment proposals to change a Map Code 8.1 (Intensive Agriculture) designation to accommodate residential, commercial, or industrial development, the County shall consider the following factors:

  a. Approval of the proposal will not unreasonably interfere with agricultural operations on surrounding lands.

     - There will adequate buffers such as landscaping and walls put in place to eliminate interference with agricultural operations on surrounding lands.

  b. Necessary public services (fire, sheriff, etc.) and infrastructure are available to adequately serve the project.
     - Prior to approval, the County jurisdiction requires an assessment to ensure adequate capacity to provide services for the project area can be met. This is usually completed through project fees and property taxes.
     - The proposed will be comprised of over 6 million square feet of warehouse space to house distribution and/or fulfillment center needs. The tax revenue generated by this project will boost the allocation of resources to improve infrastructure, utilities and public services throughout the entire County.
     -

  c. There is a demonstrated need for the proposed project location based upon population projections, market studies and other indicators.
     - Economic data shows Kern County has a 10.7% unemployment rate, compared to 7.9% for the state of California as of July 2021. Increase in warehouse square footage provides job opportunities, income growth, and

property tax generation by e-commerce related activities and industrial buildings. Kern County is also placed in an ideal location for distribution of goods to the Pacific Northwest, south and east.

- Distribution and fulfillment centers maintain a high rate of employment. Neighboring Majestic Tejon distribution centers have a current employment base of about 3,000 FTEs. Similarly, the Amazon distribution center has created over 1,000 jobs to local residents.
- Income and property taxes generated by e-commerce related and industrial buildings can help buoy local budgets by replacing lost tax revenue from closed traditional brick and mortar retail locations.
- The global e-commerce fulfillment services market size was valued at $69.68 billion in 2019 and continues to expand. These types of businesses significantly depend upon the warehousing and shipping capabilities to get products transported in the shortest amount of time. This market is increasing demand for creation of warehouses in ideal locations.
- As retail undergoes a structural change, these centers are guaranteed to generate large financial benefits to the County of Kern. The 2.6 million square foot Amazon distribution center generates over $2,000,000 in property taxes annually.

d. The requested change in land use designation is accompanied by a zone change and other implementing land use applications for a specific development proposal.
    - The general plan amendment will change the existing site designation from R-IA (Intensive Agriculture)/A (Agriculture) to SI (Service Industrial)/M-2 (Medium Industrial) and zone change will change the existing zoning classification from A (Exclusive Agriculture) to M-2 PD (Medium Industrial Precise Development) to accommodate the proposed uses.
    - Additional land use applications could include: Precise Development plan update showing improvements on Map Nos. 80, 81 and 82; sphere of influence amendment (LAFCO); annexation into OMWC Service Area; utility extensions from OMWC; encroachment permits obtained from the Building Department; improvements/expansion of Imperial Road intersection; and encroachment Permits from Building Department.

e. The site is contiguous to properties that are developed or characterized by nonagricultural land uses.
    - Although the site is contiguous with agricultural uses, there are business industrial sites to the south and east.

f. Past agricultural use of the site has led to soil infertility or other soil conditions, which render the property unsuitable for long-term agricultural use.
    - The site rotates its crops and only 350 acres are currently being utilized for agricultural purposes, while 390 acres are fallow. The soil of this prime farmland is still suitable for long-term agricultural activities. However, water is a significant problem for farming purposes. The cost of pumping or purchasing water from the limited supplies is unsustainable for cultivation.

g. Approval of the proposed project outweighs the need to retain the land for long-term agricultural use.
    - To date, nearly 390 acres of the site's prime farmland have been removed from production and have not had negative impacts on adjacent agricultural operations. There may have been a decrease in table grapes over the last seven years, but the positive outcome of future jobs will further benefit the economy on numerous levels.

h. Where adjacent or within proximity (½ mile) to existing urban areas, the County shall discourage agricultural conversion that is discontinuous with urban development.
    - The site is ½ mile north of existing industrial uses and would be in harmony with the character and logical path of urban development based on current and planned development within proximity to SR 99.

2.5 Additional Provisions

According to the most recent Farmland Conversion Report: 2006 to 2008, prepared by the staff of the Farmland Mapping and Monitoring Program in the Department of Conservation, Farmland of Local Importance is classified as:

> *"Farmland of Local Importance is land of importance to the local economy, as defined by each county's local advisory committee and adopted by its Board of Supervisors.*
>
> *Farmland of Local Importance is either currently producing, or has the capability of production, but does not meet the criteria of Prime Farmland, Farmland of Statewide Importance, or Unique Farmland. Authority to adopt or to recommend changes to the category of Farmland of Local Importance rests with the Board of Supervisors in each county."*

The FMMP states "The Kern County Board of Supervisors determined that there will be no Farmland of Local Importance in Kern County".

2.6 Department of Conservation

In Section 4.3 of this study, prime farmland is defined and discussed. Prime

farmland, as defined by the United Stated Department of Agriculture (USDA), are soils that are best suited to producing food, seed, forage, fiber, and oilseed crops. In addition, prime farmland produces the highest yields with minimal units of energy and economic resources, and farming theses soils results in the least damage to the environment.

Prime farmland soils commonly get an adequate and dependable supply of moisture from precipitation or irrigation. Temperature and growing season are favorable, and the level of acidity or alkalinity is acceptable. The soils have few rocks and are permeable to water and air, not excessively erodible or saturated with water for long periods and are not flooded during the growing season. Approximately 738.48 acres or 100 percent of the project site would meet the requirements for prime farmland if undeveloped and water for irrigation is available. The prime farmland soils in the project site are: (138) Delano sandy loam, 0 to 2 percent slopes (93.05 acres); (145) Delano sandy loam, 1 to 5 percent slopes (402.47 acres); (174) Kimberlina fine sandy loam, 0 to 2 percent slopes MLRA 17 (113.73); and (184) Lewkalb sandy loam, 0 to 2 percent slopes (45.79 acres).

2.7 California Agricultural Land Evaluation and Site Assessment Model – (LESA)

Land Evaluation and Site Assessment (LESA) is a term used to define an approach for rating the relative quality of land resources based upon specific measurable features. The formulation of the California Agricultural LESA Model is the result of Senate Bill 850 (Chapter 812/1993), which charges the Resources Agency, in consultation with the Governor's Office of Planning and Research, to develop an amendment to Appendix G of the California Environmental Quality Act (CEQA) Guidelines. Such an amendment is intended "to provide lead agencies with an optional methodology to ensure significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process" (Public Resources Code Section 21095).

The California Agricultural LESA Model is composed of six different factors: two Land Evaluation (LE) factors are based upon measures of soil resource quality; four Site Assessment (SA) factors provide measures of a given project's size, water resource availability, surrounding agricultural lands, and surrounding protected resource lands. For a given project, each of these factors is separately rated on a 100-point scale. The factors are then weighted relative to one another and combined, resulting in a single numeric score for a given project, with a maximum attainable score of 100 points, The projects score becomes the basis for making a determination of a projects potential significance, based upon a range of established scoring thresholds.

3.0 Environmental Setting

3.1 State of California Agricultural Production

According to the most recent 2019 California Agriculture Highlights prepared by the California Department of Food & Agriculture, California had 69,900 farming operations for the year 2019. The Statewide Summary 2017 (the most recent year available reflects California represents 9 percent of the nation's total farming operations; however, these farms account for 12 percent of the national gross cash receipts from farming. California land in farms totaled 24.5 million acres for the year 2017, and the number of farms decreased by 9 percent from the year 2012. The average size farm in California is 348 acres, and approximately 350 crops are recognized in the state, including seeds, flowers and ornamental grasses. The 2017 total value of agricultural products sold that were produced in California was $45,154,359,000. Modern agricultural practices in the United States have greatly increased the productivity of an acre of land. One acre can produce 12.02 tons of table grapes, 2.0 tons of pistachios, 1.15 tons of almonds, or 0.94 tons of blueberries. California's crops account for 84 percent and livestock commodities account for 16 percent of the state's gross farm income.

3.2 Kern County Agricultural Production

The valley region of Kern County is highly suitable for agricultural cultivation. A review of the California Department of Food and Agriculture Crop Reports indicates a history of high agricultural production for many crops over the years and continuing to the present. Factors that influence high agricultural activity today are climate, availability of water, dependable market demand, good soils, and most importantly, proper management. Agriculture in Kern County has been extensive since the introduction of livestock in the 1860's. Livestock raising on large land grants and some production of grain under dry-farming methods were the primary agricultural pursuits until about 1880. Rapid agricultural development occurred after 1880 due to the development of irrigation, inexpensive land, favorable crop yields, the arrival of two railroads, the development of the petroleum industry, and access to markets.

The most recent 2018 Agricultural Crop Report prepared by the Kern County Agricultural Commissioner's Office states that Kern County contains 865,813 acres of harvested land. Within that acreage, 551,495 acres were harvested for Fruit and Nut Crops. The 2018 total value of agricultural commodities produced in Kern County was $7,466,152,000, an increase of approximately .9716 percent over the 2017 crop value. The total harvested acreage decreased approximately .9787 percent from 2017. The 2018 top six commodities were grapes, almonds, pistachios, citrus, milk, and carrots.

3.3 Agricultural Production - Subject Property

The subject property includes approximately 738.48 acres of agricultural land. Grapeman Farms, LP is the grower from 2014 to the present. Historically the site has been used for table grape production. Agricultural crops grown on the subject property from 2014 to 2019 are listed in Table 3.

Table 3 Crops Grown on Subject Property for the years 2013-2019

Agricultural Crops - 2014-2019 Portion of Section , Township 31S., Range 28E., M.D.M.					
Year	Permit and Permitee	Crop	Acres	Yield Per Acre (Ton)	Total Yield (Ton)
2019	Grapeman Farms, LP	Table Grapes			
2018	Grapeman Farms, LP	Table Grapes	588	10	5880
2017	Grapeman Farms, LP	Table Grapes	638	10	6380
2016	Grapeman Farms, LP	Table Grapes	688	10	6880
2015	Grapeman Farms, LP	Table Grapes	733	10	7330
2014	Grapeman Farms, LP	Table Grapes	733	10	7330

3.4 Pesticide Usage - Subject Property

The project site has been utilized for agricultural purposes from at least the 1940s to the present. Grape Man Farms, LP is the present grower, and possesses a Restricted Materials Permit No. 1505134 for applications of pesticides and herbicides, which expires on December 31, 2020.

Information pertaining to pesticide use within the subject property has been provided by the Kern County GIS Mapping System, Kern County Department of Agriculture records, and the property owner, Malibu Vineyards, LP.

According to property owner, and information obtained from the Kern County Agricultural Commissioner's pesticide permit records indicate that the following pesticides, herbicides, fertilizers, and general soil amendments have been licensed and were applied to the project site from 2014 to 2019. (See Table 4)

Table 4 Chemicals / Pesticides Permitted for Use on the Project Site

Chemicals / Pesticides Permitted for Use on Project Site 2014-2019		
Name	**Type**	**Years Applied**
BSP LIME SULFUR SOLUTION	FUNGICIDE	2014
DITHANE F-45 RAIN SHIELD	FUNGICIDE	2017, 2016, 2015, 2014
DUSTING SULFUR	FUNGICIDE	2019, 2018, 2017, 2016, 2015, 2014
ELEVATE 50WDG	FUNGICIDE	2019, 2018, 2017, 2016, 2015
GIB GRO 20% POWDER	FUNGICIDE	2014
INSPIRE SUPER (CA, H	FUNGICIDE	2019, 2018
KALIGREEN	FUNGICIDE	2019, 2018, 2017, 2016, 2015
KIMZALL	FUNGICIDE	2019, 2018, 2017, 2016, 2015, 2014
KOCIDE 3000	FUNGICIDE	2019, 2018, 2017, 2015, 2016
Chemicals / Pesticides Permitted for Use on Project Site 2014-2019		
Name	**Type**	**Years Applied**
MANZATE PRO-STICK	FUNGICIDE	2019, 2018, 2017, 2016, 2015
OSO 5%SC	FUNGICIDE	2019, 2018
PHT DRYOUT DUST	FUNGICIDE	2019, 2018
PRISTINE(R) FUNGICIDE	FUNGICIDE	2019, 2018, 2017, 2016, 2015, 2014
QUINTEC	FUNGICIDE	2019, 2018, 2017
RALLY 40 WSP	FUNGICIDE	2019, 2018, 2017, 2016, 2015, 2014
ROVRAL BRAND 4 FLOWABLE	FUNGICIDE	2017, 2016, 2015, 2014
SCALA BRAND SC FUNGI	FUNGICIDE	2019, 2018, 2017, 2016, 2015, 2014
SERENADE ASO	FUNGICIDE	2019, 2018, 2017, 2016
SOVRAN(R) FUNGICIDE	FUNGICIDE	2019, 2018, 2017, 2016, 2015, 2014
SPRAY SULFUR	FUNGICIDE	2019, 2018, 2017, 2016
SWITCH 62.5WG	FUNGICIDE	2019, 2018, 2017, 2016, 2015
TEB 45DF	FUNGICIDE	2019, 2018, 2017, 2014

TOLEDO 45 WP	FUNGICIDE	2016
TORINO	FUNGICIDE	2019, 2018, 2017, 2016, 2014
VANGARD WG (CA)	FUNGICIDE	2019, 2018, 2017, 2016, 2015, 2014
VINTRE	FUNGICIDE	2019, 2018, 2017, 2016, 2015, 2014
VITICURE	FUNGICIDE	2019, 2018, 2017
VIVANDO(R) FUNGICIDE	FUNGICIDE	2019, 2018, 2016
WIL-DRY	FUNGICIDE	2019, 2018, 2017, 2014
CHATEAU	HERBICIDE	2018, 2016, 2015, 2014
DUPONT MATRIX	HERBICIDE	2017, 2016, 2015, 2014
FUSILADE DX	HERBICIDE	2015, 2014
GLUFOSINATE 280 SL	HERBICIDE	2017, 2015, 2014
GLY STAR ORIGINAL	HERBICIDE	2019, 2018
GOAL 2XL	HERBICIDE	2019, 2018, 2017, 2016, 2015, 2014
GRAMOXONE SL 2.0	HERBICIDE	2019, 2018, 2017, 2016, 2015, 2014
HINGE	HERBICIDE	2019, 2018
LIFELINE	HERBICIDE	2019, 2018, 2017, 2016, 2015
PHT FASTSTRIKE (CA)	HERBICIDE	2019, 2018, 2017
PROWL H20	HERBICIDE	2017
RECKON 280 SL	HERBICIDE	2014
RELY 280 SL	HERBICIDE	2016, 2014
ROUNDUP POWERMAX HER	HERBICIDE	2019, 2018, 2017, 2016

Chemicals / Pesticides Permitted for Use on Project Site 2014-2019

Name	Type	Years Applied
ROUNDUP WEATHER MASX	HERBICIDE	2016, 2015, 2014
SMOKE	HERBICIDE	2019, 2018, 2017
SURFLAN A.S.	HERBICIDE	2016
SURMISE	HERBICIDE	2016
ABACUS	INSECTICIDE	2016, 2014
ABBA ULTRA	INSECTICIDE	2019, 2018, 2017, 2015
ADMIRE PRO SYSTEMIC	INSECTICIDE	2019, 2018, 2017, 2016, 2015, 2014
APPLAUD INSECT GROWTH	INSECTICIDE	2019, 2018, 2017, 2016, 2015, 2014
BELAY(R) INSECTICIDE	INSECTICIDE	2019, 2018, 2017, 2016
BYTHROID XL	INSECTICIDE	2017, 2015, 2014
DANITOL	INSECTICIDE	2015, 2014
DELEGATE WG	INSECTICIDE	2019, 2018, 2015
LORSBAN ADVANCED	INSECTICIDE	2019, 2018, 2017, 2016, 2015, 2014

PROKIL CRYOLITE 96	INSECTICIDE	2019, 2018, 2017, 2016, 2015, 2014
SUCCESS	INSECTICIDE	2019, 2018, 2017, 2016, 2015, 2014
VENONM	INSECTICIDE	2015, 2014
ACTIVATOR 90	PESTICIDE	2016, 2015
AGRI-DEX	PESTICIDE	2019, 2018, 2017, 2016, 2015, 2014
BRANDT TRIPLELINE DE	PESTICIDE	2019, 2018, 2017, 2015, 2014
BUD PRO GROWTH REGULATOR	PESTICIDE	2016
CHAMP FORMULA 2 FLOW	PESTICIDE	2019, 2018, 2017, 2016, 2015, 2014
CHECKMATE VMB-F	PESTICIDE	2019, 2018, 2017, 2016
ELIMINO	PESTICIDE	2019, 2018, 2017
ETHEPON 2	PESTICIDE	2016, 2014
FALGRO 2X LV	PESTICIDE	2019, 2018, 2017, 2016, 2015, 2014
GIBB MAX	PESTICIDE	2014
HELENA AGRI-DEX	PESTICIDE	2015, 2014
KINETIC A NONIONIC W	PESTICIDE	2019, 2018, 2017, 2016, 2015, 2014
KROP-MAX	PESTICIDE	2017, 2016, 2014
MOTIVATE	PESTICIDE	2019, 2018
MOVENTO	PESTICIDE	2019, 2018, 2017, 2016, 2015, 2014
PROGIBB(R) LV PLUS	PESTICIDE	2019, 2018, 2014

3.4 Agricultural Production - Adjacent Property

The crops grown on adjacent properties for the years 2014-2019, and the land uses for the adjacent property are presented in the Tables 5 and 6 below.

Table 5 Crops Grown on Adjacent Properties 2014-2019

Crops Grown on Adjacent Properties 2014-2019		
Year	**Location**	**Crops**
2014	North	Grapes, Tangerines
	East	Grapes, Potatoes, Pistachios
	South	Uncultivated Ag, Grapes
	West	Grapes, Pistachios
2015	North	Grapes, Tangerines
	East	Grapes, Pistachios, Potatoes
	South	Grapes, Uncultivated Ag

Crops Grown on Adjacent Properties 2014-2019		
Year	**Location**	**Crops**
	West	Grapes, Pistachios
2016	North	Grapes, Tangerines
	East	Grapes, Potatoes, Pistachios
	South	Grapes, Uncultivated Ag
	West	Grapes, Pistachios
2017	North	Grapes, Tangerines, Carrots
	East	Grapes, Uncultivated Ag, Pistachios
	South	Grapes, Uncultivated Ag
	West	Uncultivated Ag, Grapes, Pistachios
2018	North	Grapes, Tangerines, Carrots
	East	Grapes, Carrots, Pistachios
	South	Grapes
	West	Uncultivated Ag, Grapes, Pistachios
2019-2020	North	Uncultivated Ag, Grapes, Pistachios, Tangerines,
	East	Grapes, Pistachios
	South	Grapes
	West	Uncultivated Ag, Grapes

Source: Kern County GIS 08-06-20

Table 6 Adjacent Properties Land Use

Adjacent Properties Land Use, General Plan and Zoning			
Location	**General Plan**	**Current Land Use**	**Zoning**
North	R-IA (Resource Intensive Agriculture) 8.1 (Resource Intensive Agriculture)	Agricultural	A (Exclusive Agriculture)
South	SI (Service Industrial) LI (Light Industrial)	Agricultural	A (Exclusive Agriculture) M-2 PD (Medium Industrial Precise Development Combining)
East	R-IA (Resource Intensive Agriculture) R-MP (Resource Mineral & Petroleum) SI (Service Industrial)	Agricultural, Industrial	A (Exclusive Agriculture) M-2 (Medium Industrial) M-2 PD (Medium Industrial Precise Development Combining)
West	R-IA (Resource Intensive	Highway 99,	Specific Plan – Coberly West

Adjacent Properties Land Use, General Plan and Zoning			
Location	**General Plan**	**Current Land Use**	**Zoning**
	Agriculture) HI (Heavy Industrial) SI (Service Industrial) (City of Shafter) Specific Plan	Union Pacific RR, vacant Agricultural, Industrial	

Source: Metropolitan Bakersfield General Plan West – March 21, 2013 (County Maintained) and General plan – Central Section – July 27, 2010

Dairy Locations

According to the most recent Kern County Dairy Information provided by the Kern County GIS map, there are currently 64 existing dairies located within Kern County. Nearby dairies are located approximately 15 miles west of the project site and are referenced in Table 7 and Appendix "1-2"

Table 7 Existing Dairy Farm Locations

Existing Dairy Farm Locations					
Location	**Name**	**Section**	**Township**	**Range**	**Zone Map**
1	Oasis Holsteins	14	28S	24E	78
2	Aukeman*	15	28S	24E	78
3	Faial Land Co.- Vermeer & Goedhart	22	28S	24E	78
4	Tjaarda Dairy*	34	28S	24E	78
5	Goyenetche Family	10	29S	24E	99
*	Designates dairy approved under "by right" provision				

3.5 Historical and Current Aerial Photographs

The historical and current aerial photographs were reviewed to help establish the history of the subject property. Historically, the majority of the site has been used as agricultural land. The following aerial photographs are provided as listed below (Refer to Appendix "G"):

1937 - Undeveloped and Agricultural land

Phase 1 - The project site is visible as fallow land State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary. Small farms are visible to the west, and east.

Phase 2 – The project site is visibly being actively farmed. Farming activity is also visible west and north.

1952 - Agricultural land

Phase 1 - Farming activity is visible on a portion of the project site. The metal building and irrigation pond are visible in the northeastern portion of the property. State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary. Small farming operations remain in the west and east

Phase 2 – Farming activity remains visible. Farming continues to remain west and north, and farming activity is now visible to the east. State Route Highway 99 is visible along the west boundary of the project site.

1968 - Agricultural land

Phase 1 – A portion of the site continues to be farmed. There is farming activity west and east, along with fallow land to the east. State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary.

Phase 2 – Roughly 50 percent of the project is visibly being farmed. Farming continues west of the site, however the area directly north and east are visibly

fallow. State Route Highway 99 is visible along the west boundary of the project site.

1994 - Agricultural land

Phase 1 – Farming activity is visible throughout the site. The irrigation pond is in the upper northeast corner appears to be operational. Farming actives continue west, north, and east of the site. Area south remains fallow. State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary.

Phase 2 – Approximately 60 percent of the project site is visibly being farmed. Areas north, west and east are being farmed (portion of area east fallow). State Route Highway 99 is visible along the west boundary of the project site.

2005 - Agricultural land

Phase 1 – Aerial photos are now available in color. Farming activity is visible over approximately 50 percent of the property. Areas east, north and south are being farmed. Area west is fallow. State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary.

Phase 2 – Farming continues within the northern 60 percent of the project site. Farming is also visible west, north and east. State Route Highway 99 is visible along the west boundary of the project site.

2012 - Agricultural land

Phase 1 – Farming activity is visible on approximately 50 percent of the site and continues east, north and south. State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary.

Phase 2 – Farming activity is visible on the entire site. Farming activity is visible west, north, and east. State Route Highway 99 is visible along the west boundary of the project site.

2013 - Agricultural land

Phase 1 and 2 are now included on one aerial photo and we are displaying an overlay with the project areas shown. Phase 1 reflects about the same reduction in farming activity as was in 2012. Phase 2 100 percent of the property is being actively farmed.

State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary of Phase 1.

2014 - Agricultural land

Phase 1 and 2 are now included on one aerial photo and we are displaying an overlay with the project areas shown. Phase 1 reflects an increas in farming activity as was reflected in 2013. 75 percent of the south half of Section 30 is fallow. Phase 2 100 percent of the property is actively being farmed.

State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary of Phase 1.

2015 - Agricultural land

Phase 1 and 2 are now included on one aerial photo and we are displaying an overlay with the project areas shown. Phase 1 shows visible increase in farming activity, approximately 10 percent is fallow. Phase 2 reflects a portion of land as being fallow, all remaining property is being actively farmed.

State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary of Phase 1.

2016 - Agricultural land

Phase 1 and 2 are now included on one aerial photo and we are displaying an overlay with the project areas shown. Phase 1 shows visible decrease in farming activity, approximately 20-25 percent is fallow. Phase 2 reflects a portion of land in the center being fallow which represents approximately 20 percent and all remaining property is being actively farmed.

State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary of Phase 1.

2017 - Agricultural land

Phase 1 and 2 are now included on one aerial photo and we are displaying an overlay with the project areas shown. Phase 1 visibly reflects farming activity, approximately 10-15 percent is fallow. Phase 2 reflects a change from 2016 as the center portion of land is being actively farmed. Portions of the northern property and all of the southern property are fallow.

State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary of Phase 1.

2018 - Agricultural land

Phase 1 and 2 are now included on one aerial photo and we are displaying an overlay with the project areas shown. Phase 1 visibly reflects farming activity

throughout the entire property. Phase 2 reflects a change from 2017 in that additional property at the north boundary is fallow and all of the southern property is fallow.

State Route Highway 99 is visible along the west boundary of the project site. The Lerdo Canal is also visible along the western boundary of Phase 1.

3.6 Agricultural Crops and Yields for the Year 2014 - 2018

According to the farmer, the agricultural crops grown on the subject property for the years 2014 through 2018 consisted of table grape crops. The 2019 growing year was incomplete during the preparation of this document, instead crop data from 2018 will be used as it is the last complete growing year for which data is available.

The yield per acre, cost to produce, and net value of each year's crop is listed in Table 8.

Table 8 Agricultural Crops and Yields for the Year 2018

Agricultural Crops - 2018 Portion of Sections 24 & 25, Township 28S., Range 26E., and Sections 29 & 30. T28S, R27E., M.D.M.								
Year	**Crop**	**Acres**	**Yield Per Acre (Ton)**	**Total Yield (Ton)**	**Unit Value**	**Cost to produce per acre**	**Net Value**	**Net Value Per unit**
2018	Table Grapes	588	10	5880	$1676	*$10,888	$3,452,736	$587.20
	Fallow	150	--	--	--	--	--	--
*	Based upon University of California Cooperative Extension, Cost and Return Studies							

Table Grapes – Table Grapes were ranked number one of the top five crops grown in Kern County for the year 2018. The typical yield of table grapes is 12.02 tons per acre and the cost to produce table grapes is estimated at $10,888.00 per acre *(Based upon University of California Cooperative Extension, Cost and Return Studies)*. The table grape crop value is estimated at $1,676.00 per ton per Kern County 2018 Crop Report. Therefore, the net crop value is approximately $587.20 per ton, or $3,452,736 for the 588 acres of table grape crop.

3.7 Agricultural Crops and Yields for the Year 2013-2017

Agricultural crops grown on the subject property for the years 2013 through 2017 consisted of table grape crops. The yield per acre, cost to produce, and net value of each years' crop is listed in Table 9.

Table 9 Agricultural Crops 2014-2017

Agricultural Crops - 2014-2017 Portion of Section 7, Township 31S., Range 28E., M.D.M.								
Year	Crop	Acres	Yield Per Acre (Ton)	Total Yield (Ton)	Unit Value	Cost to produce per acre	Net Value	Net Value Per unit
2017	Table Grapes	638	10	6380	$2,020	*$10,888	$5,941,056	$931.20
2016	Table Grapes	688	10	6880	$2,025	*$10,888	$6,441,056	$936.20
2015	Table Grapes	733	10	7330	$2,047	*$10,888	$7,023,606	$958.20
2014	Table Grapes	733	10	7330	$1,900	*$10,888	$5,946,096	$811.20
2013	Table Grapes	733	10	7330	$1,811	*$10,888	$5,293,726	$722.20
*	Based upon University of California Cooperative Extension, Cost and Return Studies							

2017

Table Grapes – Table Grapes were ranked number one of the top five crops grown in Kern County for the year 2017. The typical yield of table grapes is 11 tons per acre and the cost to produce table grapes is estimated at $10,888.00 per acre *(Based upon University of California Cooperative Extension, Cost and Return Studies)*. The table grape crop value is estimated at $2,020.00 per ton per Kern County 2017 Crop Report. Therefore, the net crop value is approximately $931.20 per ton, or $5,941,056 for the 638 acres of table grape crop.

2016

Table Grapes – Table Grapes were ranked number one of the top five crops grown in Kern County for the year 2016. The typical yield of table grapes is 11.78 tons per acre and the cost to produce table grapes is estimated at $10,888.00 per acre *(Based upon University of California Cooperative Extension, Cost and Return Studies)*. The table grape crop value is estimated at $2,025.00 per ton per Kern County 2016 Crop Report. Therefore, the net crop value is approximately $936.20 per ton, or $6,441,056 for the 688 acres of table grape crop.

2015

Table Grapes – Table Grapes were ranked number one of the top five crops grown in Kern County for the year 2015. The typical yield of table grapes is 11.58 tons per acre and the cost to produce table grapes is estimated at $10,888.00 per acre *(Based upon University of California Cooperative Extension, Cost and Return Studies)*. The table grape crop value is estimated at $2,047.00 per ton per Kern County 2015 Crop Report. Therefore, the net crop value is approximately $958.20 per ton, or $7,023,606 for the 733 acres of table grape crop.

2014

Table Grapes – Table Grapes were ranked number one of the top five crops grown in Kern County for the year 2014. The typical yield of table grapes is 12.85 tons per acre and the cost to produce table grapes is estimated at $10,888.00 per acre *(Based upon University of California Cooperative Extension, Cost and Return Studies)*. The table grape crop value is estimated at $1,900.00 per ton per Kern County 2014 Crop Report. Therefore, the net crop value is approximately $811.20 per ton, or $5,946,096 for the 733 acres of table grape crop.

2013

Table Grapes – Table Grapes were ranked number one of the top five crops grown in Kern County for the year 2013. The typical yield of table grapes is 13.61 tons per acre and the cost to produce table grapes is estimated at $10,888.00 per acre *(Based upon University of California Cooperative Extension, Cost and Return Studies)*. The table grape crop value is estimated at $1,811.00 per ton per Kern County 2013 Crop Report. Therefore, the net crop value is approximately $722.20 per ton, or $5,293,726 for the 733 acres of table grape crop.

3.8 Soils

As defined by the United Stated Department of Agriculture (USDA), prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and that is available for these uses. It has the combination of soil properties, growing season, and moisture supply needed to produce sustained high yields of crops in an economic manner if it is treated and managed according to acceptable farming methods. Prime farmland soils produce the highest yields with minimal units of energy and economic resources, and farming in these soils result in the least damage to the environment.

The USDA Soil Survey of Kern County, California - Northwestern Part were utilized to determine the soil units occurring within the proposed site and are listed in Table 10.

Table 10 USDA Soil Survey

USDA Soil Survey of Kern County, California - Northwestern Part					
Map Unit	Map Unit Name	Capability Classification		Land Capability Class	Acres in Site
		Irrigated	Non-irrigated		
(138)	Delano sandy loam, 0 to 2 percent slopes	1	6c	II	93.05
(145)	Driver course sandy loam, 0 to 2 percent slopes	2s	7s	II	402.47
(146) ne	Delano sandy loam, 1 to 5 percent slopes	2e	6e	IIIe	81.97
(174)	Kimberlina fine sandy loam, 0 to 2 percent slopes MLRA 17	1	7e	II	113.73
(184)	Lewkalb sandy loam, 0 to 2 percent slopes	2s	7s	IIs	45.79
(257)	Water				1.47

The number and symbol following each soil type represent the index symbol and number of the Soil Conservation Service Soil Survey map unit.

(138) Delano sandy loam, 0 to 2 percent slopes:

Very deep, well drained soil with 0 to 2 percent slopes. It is formed in alluvium weathered from granite. The typical profile of this soil unit includes a 0 to 6 inch deep surface layer, dark brown fine sandy loam. The underlying material includes a layer located at a depth of 6 to 11 inches with pale brown, sandy loam brown. 11-63 inches with light brown to yellowish brown, sandy clay to sandy loam. Potential rooting depth is 60 inches.

Permeability is moderately slow and available water capacity is high. Surface runoff is slow. The hazard of water erosion and wind erosion is slight to moderate respectively. The hazard of flooding is rare. The shrink-swell potential is low and the corrosivity class is high for steel and moderate for concrete.

Current uses of areas on this type of soils are irrigated crops, rangeland, and home site development. Commonly grown crops are cotton, alfalfa, dry beans, carrots, lettuce, corn, barley, and wheat. If this unit is used for irrigated crops, the major management factor is soil stratification, deep leaching, and dust hazards. Approximately 93.05 acres of the proposed project site are in this category. These soils are in capability class IIs-0 irrigated and capability class VIIe non-irrigated (Refer to Tables 11 and 12). It is considered prime farmland where water for irrigation is available. (USDA Northwestern Kern Soil Survey).

(145) Delano sandy loam, 1 to 5 percent slopes:

Very deep, well drained soil with 0 to 2 percent slopes. It is formed in alluvium weathered from granite. The typical profile of this soil unit includes a 0 to 6 inch

deep surface layer, dark brown fine sandy loam. The underlying material includes a layer located at a depth of 6 to 11 inches with pale brown, sandy loam brown. 11-63 inches with light brown to yellowish brown, sandy clay to sandy loam. Potential rooting depth is 60 inches.

Permeability is moderately slow and available water capacity is high. Surface runoff is slow. The hazard of water erosion and wind erosion is slight to moderate respectively. The hazard of flooding is rare. The shrink-swell potential is low and the corrosivity class is high for steel and moderate for concrete.

Current uses of areas on this type of soils are irrigated crops, rangeland, and home site development. Commonly grown crops are cotton, alfalfa, dry beans, carrots, lettuce, corn, barley, and wheat. If this unit is used for irrigated crops, the major management factor is soil stratification, deep leaching, and dust hazards. Approximately 93.05 acres of the proposed project site are in this category. These soils are in capability class IIs-0 irrigated and capability class VIIe non-irrigated (Refer to Tables 11 and 12). It is considered prime farmland where water for irrigation is available. (USDA Northwestern Kern Soil Survey).

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(174) Kimberlina fine sandy loam, 0 to 2 percent slopes MLRA 17:

Very deep, well drained soil with 0 to 2 percent slopes. It is formed on flood plains and recent alluvium fans. These soils formed in mixed alluvium derived dominantly from igneous and or sedimentary rock sources. The typical profile of this soil unit includes a 0 to 9 inch deep surface layer, brown fine sandy loam, dark grayish brown. The underlying material includes a layer located at a depth of 9 to 31 inches with pale brown, fine sandy loam brown. 31-45 inches with pale brown to dark greyish brown, fine sandy loam. 45 to 71 inches pale brown silt loam, dark greyish brown. Potential rooting depth is 60 inches.

Permeability is well drained, negligible to medium runoff, moderately rapid and moderate permeability, however saline-sodic phases and soils with sandy clay loam substratums have moderately slow permeability.

Current uses of areas on this type of soils are irrigated field, forage, and row crops. Approximately 113.73 acres of the proposed project site are in this category. These soils are in capability class IIs-0 irrigated and capability class VIIe non-irrigated (Refer to Tables 11 and 12). It is considered prime farmland where water for irrigation is available. (USDA Northwestern Kern Soil Survey).

(184) Lewkalb sandy loam, 0 to 2 percent slopes:

Deep, well drained soil with 0 to 2 percent slopes. It is formed in sedimentary and granitic alluvium. The typical profile of this soil unit includes a 0 to 2 inch deep surface layer, light brownish grey sandy loam, dark greyish brown. The underlying material includes a layer located at a depth of 2 to 23 inches with pale

brown, sandy loam brown. 23-40 inches with light gray sandy loam, light brownish grey. 40-65 inches, light grey loamy sand, light brownish grey.

Permeability is will drained, very slow or slow runoff, permeability is is moderate or moderately rapid in the surface horizons and slow in the underlying silca cemented horizons. Current uses of areas on this type of soils are used mainly for range. When water is available, irrigated crops such as cotton, alfalfa, sugar beets, potatoes, and carrots are grown. Vegetation is mainly red brome, foxtail fescue, and filaree and is within the California prairie vegetation type I the Kuchler map.

Approximately 45.79 acres of the proposed project site are in this category. These soils are in capability class IIs-0 irrigated and capability class VIIe non-irrigated (Refer to Tables 11 and 12). It is considered prime farmland where water for irrigation is available. (USDA Northwestern Kern Soil Survey).

The USDA Northwestern Kern Soil Survey states which soil units meet the requirements for prime farmland if water for irrigation is available. According to the Northwestern Soil Survey, the entire site, approximately 748.38 acres is classified as prime farmland if water for irrigation is available.

However, as defined by the California Land Conservation act (G.C. § 51201), prime agricultural soils include Class I and II soils, storie index 80-100 soils, vineyards and orchards, and soils which yield a minimum of $200 an acre per year. As previously noted in Section 2.3 of this study, the MBGP – Conservation/Soils and Agriculture Element – states among its Goals to "Promote soil conservation and minimize development of prime agricultural land as defined by the following criteria:

- Capability Class I and/or II irrigated soils;
- 80-100 Storie Index rating;
- gross crop return of $200 or more per acre per year;
- annual carrying capacity of one animal unit per acre per year"

The proposed project site is comprised of (138) Delano sandy loam, 0 to 2 percent slopes (93.05 acres); (145) Delano sandy loam, 1 to 5 percent slopes (402.47 acres); (174) Kimberlina fine sandy loam, 0 to 2 percent slopes MLRA 17 (113.73); and (184) Lewkalb sandy loam, 0 to 2 percent slopes (45.79 acres) which are classified by the United States Department of Agriculture Soil Conservation Service, are Class II's and III's soils respectively. This soil unit is also classified as a prime farmland soil by the Kern County Soil Survey, Northwestern Kern. Therefore, the entire site is considered prime per the California Land Conservation Act and the MBGP definition. Approval and implementation of the land use change will result in a loss of approximately 738.48 acres of prime agricultural land.

3.8.1 Land Capability Classifications

As defined by the United Stated Department of Agriculture (USDA), *the land capability classification shows the suitability of soils for most kinds of field crops. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management.*

In the Capability system, soils are generally grouped at three levels: capability class, subclass, and unit. Capability subclasses are soil groups within a class. They are designated by adding a, e,w,s, or c to the class number, for example IIe. The letter e shows the main limitation as erosion unless close-growing plant cover is maintained; w shows that water in or on the soil interferes with plant growth or cultivation; s shows that the soil is limited mainly because it is shallow, droughty, or stony; and c, used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

Capability units are soil groups within a subclass. The soils in a capability unit are enough alike to be suited to the same crops and pasture plants, to require similar management, and to have similar productivity. Capability units are designated by adding an Arabic numeral to the subclass symbol, for example, IIe-1 or IIIe-8. The numbers used to designate units within the subclass are as indicated in Table 12 below:

Table 11 USDA Land Capability Classifications

United Stated Department of Agriculture (USDA) Land Capability Classifications	
Class	**Definition**
Class I	Soil has few limitations that restrict their use
Class II	Soil has moderate limitations that reduce the choice of plants or that require moderate conservation practices
Class III	Soil has severe limitations that reduce the choice of plants or require special conservation practices, or both
Class IV	Soil has severe limitations that reduce the choice of plants or that require very careful management, or both.
Class V	Soils are not likely to erode but have other limitations, impractical to remove, that limit their use.
Class VI	Soil has severe limitations that make them generally unsuitable for cultivation
Class VII	Soil has severe limitations that make them unsuitable for cultivation
Class VIII	Soils and miscellaneous areas have limitations that nearly preclude their use for commercial crop production

Table 12 Land Capability Units

United Stated Department of Agriculture (USDA) Land Capability Units	
Number	**Definition**
0	Indicates limitations caused by stony, cobbly, or gravelly material in the substratum.
1	Indicates limitations caused by slope or by an actual or potential erosion hazard.
2	Indicates a limitation of wetness caused by poor drainage or flooding.
3	Indicates a limitation of slow or very slow permeability of the subsoil or substratum is caused by a clayey subsoil or by a substratum that is semi-consolidated.
4	Indicates a low available water capacity in sandy or gravely soils.
5	Indicates limitations caused by a fine textured or very fine textured surface layer.
6	Indicates limitations caused by salts or alkali.
7	Indicates limitations caused by rocks, stones, or cobblestones.
8	Indicates that the soil has a very low or low available water capacity because the root zone generally is less than 40 inches deep over massive bedrock.
9	Indicates limitations caused by low or very low fertility, acidity, or toxicity that cannot be corrected by adding normal amounts of fertilizer, lime, or other amendments.
10	Indicates a high organic matter content, peats, and mucks.

No unit designations are shown for class I soils because the soil characteristics are similar for all soils in the class. Unit designations are not given for soils in classes V through VIII because these soils normally are not intensively managed as cropland.

3.9 Water

The most recent data provided by the Cawelo Water District GSA Groundwater Sustainability Plan (Spring 2017) indicates that the unconfined water table range from approximately 20 to 120 feet below ground surface (bgs) beneath the project site. Four active, (150 hp) electric-powered irrigation wells are situated in various locations on the project site. Irrigation ponds are also utilized for purpose of irrigation. The method of irrigation used on the subject property is drip irrigation.

3.10 Climate

Bakersfield's climate is considered Mediterranean (*Köppen Csa*) and is characterized by hot, dry summers and cool, wet winters. Bakersfield's temperature exceeds 100 degrees for an average of 33 days a year and several days each summer can be expected to top 110 degrees. Temperatures can drop below freezing approximately 12 days annually. The precipitation averages 39 days a year. Bakersfield has an average of 272 sunny days per year and 93 cloudy days per year. The average rainfall (30-year period) is 6.45 inches per year.

4.0 Impacts of Farmland Conversion

4.1 Methodology

This study utilizes a combination of the analysis of factors provided in the MBGP and the California Agricultural Land Evaluation and Site Assessment Model (LESA, California Department of Conservation – Office of Land Conservation, 1997) to identify the proposed project's potential impact to agricultural lands.

4.2 Metropolitan Bakersfield General Plan, and Kern County General Plan Factors

The MBGP recommends that certain factors be evaluated when determining the appropriateness of proposed agricultural conversions (MBGP, page V-13). These factors include:

- Soil quality
- Availability of irrigation water
- Proximity to non-agricultural uses
- Proximity to intensive parcelization
- Effect of properties subject to Williamson Act land use contracts
- Ability to be provided with urban services such as sewer, water, roads, etc.
- Ability to affect the application of agricultural chemicals on nearby agricultural properties
- Ability to create a precedent-setting situation that leads to the premature conversion of prime agricultural lands
- Demonstrated project need
- Necessity of buffers such as lower densities, setbacks, etc.

According to the KCGP, when evaluating General Plan Amendment proposals to change a Map Code 8.1 (Intensive Agriculture) designation to industrial development, the County shall consider the following factors:

- Locations for new industrial activities shall be provided with adequate infrastructure (water, sewage disposal systems, roads, drainage, etc.) to minimize effects on County services.
- Provide for the clustering of new industrial development adjacent to existing industrial uses and along major transportation corridors.
- Require that industrial uses provide design features such as screen walls, landscaping, increased height and/or setbacks, and lighting restrictions between the boundaries of adjacent residential land use designations so as to reduce impacts on residences due to light, noise, sound, and vibration.
- Requests for new Map Code 7.2 (Service Industrial) designations should be discouraged on sites contiguous to or located within ¼ mile of residentially designated property.

- All industrial development equal to or greater than 40 acres in a rural area will require the adoption of a Specific Plan prior to development approval.
- Where feasible, locate future industrial activities in close proximity to railroad facilities and inter- and intra-State transportation corridors to minimize extensive travel through urban areas and to promote alternative transportation of goods.

This section includes a general discussion of the above-mentioned factors. This study's findings regarding these factors are included in Section 6.0 Conclusions.

In California, the nation's leading farm state, the issue is complicated by widely varying numbers about the extent of conversion and by contrasting opinions about the causes and consequences of farmland loss. The Metropolitan Bakersfield General Plan area has been experiencing intense urbanization for the last two decades, and is actively annexing properties by providing the infrastructure needed to serve more densely populated communities. Urbanization in farming areas typically begins with conversion of one or a few parcels adjacent to the city limit line. The encroachment of urban uses on existing agricultural areas is prevalent adjacent to the City, where both farmers and urban neighbors operate with both negative and positive consequences. The challenge is to minimize the negative interactions and create the conditions for a long-term and mutually beneficial coexistence between farmers and urban residents. The negative interactions can be divided into the impacts that farmers can have on urban neighbors and the impacts that urban neighbors can have on farmers.

Farming operations can affect urban neighbors by creating inconveniences or discomforts such as equipment noise, odors from manure and other chemicals, and dust or smoke. Farming operations may also result in impacts such as traffic of farm machinery on the streets. The introduction of adjacent residential uses creates a greater number of land use conflicts than non-residential urban uses such as commercial and industrial uses.

The introduction of urban uses in existing agricultural areas can affect farming operations. Urban uses can create adverse impacts such as the introduction of pests, disease and weeds, increased flooding and siltation, and increased traffic, vandalism, and trespassing. In Kern County, a farmer must receive a "Restricted Materials Permit" to apply chemicals to the crops, and the Kern County Department of Agriculture monitors the application by permits, to ensure that it is applied within regulations. For example, there are restrictions on the application of cotton harvest aides (DEF, Folex, Paraquat) during the cotton defoliation season. DEF, Folex and Paraquat shall not be applied within 1/8 mile of any school. Paraquat should not be applied within 1/8 mile of any residential zoned or inhabited area, or within 1/4 mile if applied by air. DEF or Folex shall not be applied within 1/2 mile of any area zoned as residential or any school in session or due to be in session within 24 hours. Restrictions to chemical and pesticides application are an additional impact on farming operations resulting from residential developments near existing agricultural areas.

The proposed project may have an impact on local growers. Farmers near the proposed project will inevitably be affected by the planned development. Substantial planned urban development on properties near the proposed project site indicates that this site is in the logical path of development. In addition, Highway 99 would provide a buffer between uses within the project site and agricultural activities west of it. The future Expressway would provide adequate circulation for the project site and neighboring uses.

The conversion of this property from agricultural use to industrial use is not expected to create cumulative or growth-inducing impacts to other nearby farmlands. Existing land use designation of properties to the south and southeast, as well as, proposed and pending land use designation amendments and planned future development of properties to the west and southwest (shown in Appendix "B") demonstrate that the project is along the logical path of urban development and the proposed project in itself will not induce further growth.

The impact of the proposed industrial development on local growers is considered minimal because of the restrictions and limitations that are already in place as a result of rural residential development near the project site.

Existing and planned urban development on properties directly adjacent to, and near the proposed project site indicates that this site is in the logical path of development. The following factors indicate that the proposed project area and adjacent properties will be affected by future urban development:

- The Proposed Expressway Alignment is located along the central project area of Phase 1.
- Proposed Highway 99 on and off ramps at Burbank Blvd.

Planned future development (shown in Appendix "B", Proposed Projects near the Subject Property) and planned roadway system expansion near the proposed project site demonstrate that the project is along the logical path of urban development.

4.3 California Department of Conservation - Factors

In this section, prime farmland is defined and discussed, and the prime farmland soils in the project site are listed in Table 10. As defined by the USDA, are soils that are best suited to producing food, seed, forage, fiber, and oilseed crops. In addition, prime farmland produces the highest yields with minimal units of energy and economic resources, and farming theses soils results in the least damage to the environment.

Prime farmland soils commonly get an adequate and dependable supply of moisture from precipitation or irrigation. Temperature and growing season are favorable, and the level of acidity or alkalinity is acceptable. The soils have few rocks and are permeable to water and air, not excessively erodible or saturated with water for long periods and are not flooded during the growing season. The project site (314.31

acres) would meet the requirements for prime farmland if undeveloped and water for irrigation is available.

4.3.1 Seven Categories of Important Farmland

The California Department of Conservation has determined seven categories of Important Farmland:

Prime Farmland - This has the best combination of physical and chemical characteristics for crop production. It has the soil quality, growing seasons and moisture supply needed to produce sustained high yield crops when treated and managed, including water management, according to current farming methods. Implementation of the proposed project will result in a loss of approximately 314.31 acres of soil considered prime farmland soil by the Kern County Soil Survey, Southwest Kern if water for irrigation is available.

Farmland of Statewide Importance - This is land other than prime farmland that has a good combination of physical and chemical characteristics for the production of crops, and has been used for the production of irrigated crops within the last three years. None of the project site is in this category.

Unique Farmland – This is land that does not meet the criteria for Prime Farmland or Farmland of Statewide Importance, and land that is currently used for the production of specific high economic value crops. It has the special combination of soil quality, location, growing season and moisture supply needed to produce sustained high quality or high yields of specific crops (i.e. oranges, olives, avocados, cut flowers) when treated and managed according to current farming methods. This category excludes abandoned orchards or vineyards. None of the project site is in this category.

Farmland of Local Importance – This land produces crops or has the capability of production, or is used for the production of confined livestock. It is other than Prime, Statewide Importance or Unique Farmland. It may be important to the local economy due to its productivity. A local advisory committee set up by the SCS in each county initially identified farmland of Local Importance. The Kern County Board of Supervisors has determined that there will be no Farmland of Local Importance in Kern County. None of the project site is in this category.

Grazing Land – This is land on which the existing vegetation, whether grown naturally or through management, is suitable for grazing or browsing of livestock. It is identified in minimum mapping units of 40 acres and does not include land previously identified above. None of the project site is in this category.

Urban and Built-up Land – This land is used for residential, industrial, commercial, construction, institutional, public administrative purposes, etc. None of the project site is in this category.

Other Land – This is land not included in any of the other mapping categories and generally includes rural development with a density of less than one structure per 1.5 acres, marginal agricultural lands, brush, timber, roads and other rural land uses.

4.4 Buffer Zones

Buffer zones are well-defined strips of land located between farmland and urban development used to minimize possible conflicts between these uses. Buffers essentially create a separation between agricultural and urban uses, which minimize negative impacts on both sides of an edge boundary, especially the effects of chemical drift from farming activity. Agricultural buffers come in different forms—natural barriers created by landscape features such as waterways, roads, landscaping, walls, residential setbacks, open space greenbelts, and combinations of various types. Key issues in their design and creation are their permanence, maintenance, and which of the landowners—developer/homeowner or farmer will provide the land or barrier.

If developments adjacent to agricultural fields do not include buffer zones in their design, the burden falls upon the grower to provide a buffer between these uses. This often means the grower must allocate a portion of their land to the creation of a buffer zone. As an example, growers might be required to refrain from spraying or harvesting the outside rows of their crops. In those cases, buffer zones represent a loss to the farmer of both crop production and income. However, with commercial development, a buffer zone may include a parking lot or landscape area. Farmers can utilize their entire site for crop production if the adjacent development is commercial or industrial in nature, as these types of uses are not considered to be sensitive receptors.

The MBGP policy implementation for the Land Use Plan states that “Suitable land use buffers, such as transitional lot sizes, shall be planned so as to intervene between existing agricultural uses and planned urban uses.”

The roadway rights-of-way will serve as buffers for the proposed development along some of the subject site’s boundaries, such as adjacent to existing Imperial Avenue and Burbank Street. In addition, State Route 99 on the west boundary provides a buffer between the project site and adjacent agricultural land.

4.5 Water Supply

Water is an important input in crop production. It has been the most important factor responsible for yield increases in the past 20 years. Some water districts have limits on the amount of water they can deliver to agricultural crops. Water demands change somewhat when croplands are converted to urban uses. Net irrigation requirements give the average amount of water required by specific crops at given locations in addition to the amount of water normally received there in the form of precipitation. Urban water consumption depends on the land use established. Some industrial users, such as food processors, require very

large volumes of water. Commercial uses require less water than industrial uses, but more water than residential uses.

Vegetable irrigation in a drought year with potential periods of power outages and the announcements of reduced water supply can severely reduce vegetable yields. Growers have seen increases in water supply costs for their crops, which are attributed to the higher costs on energy to run the pump.

The agricultural water wells on the project site will be abandoned when the agricultural production ceases in anticipation of the pending industrial development.

4.6 Water Quality

The amount and type of water contamination generated in urban areas differ from those generated in farmlands. Urbanization usually results in increased surface water concentrations of fecal coliforms, oil, grease, and heavy metals. Most farmers systematically apply a variety of pesticides and fertilizers to their crops. Some of these chemicals reach the soil and eventually leach into the groundwater. Soil and groundwater contamination also occur where chemicals are mixed or stored, where wells are constructed or abandoned, and through rainwater infiltration. Agricultural application of pesticides accounts for approximately 92 percent of all pesticide use in California (including chlorine).

Conversion of farmlands to urban use decreases the area whereon which vegetation is treated with chemicals decreases due to the addition of impervious surfaces associated with non-agricultural uses.

4.7 Competition for Water

California has a relatively abundant supply of water, but the state's Mediterranean climate and varied geography results in an uneven spatial and temporal distribution of water supply. The Sierra Nevada Mountain range that lines the eastern edge of the State capture and store precipitation that occurs in the winter that can be used for summer irrigation in the Central Valley. Average annual statewide precipitation is about 23 inches, corresponding to a volume of 200 million acre-feet. About 65 percent of this precipitation is consumed through evaporation and transpiration by trees, plants, and other vegetation. The remaining 35 percent comprises the state's average annual runoff of about 71 million acre-feet.

The DWR projects a decline in California's irrigated acreage by 2020, due in part to urbanization of agricultural lands in the San Joaquin Valley. Potential changes in water use resulting from land use conversion is of concern by local agencies responsible for land use planning or for providing water supplies.

Changes in water usage depends on the types of crops grown, and the density and type of urban development in an area. In the case of single-family dwellings, applied water use varies with housing density. Numerous studies have shown

that dwellings on larger lots use more water per dwelling unit due to the larger landscaped areas. However, higher density developments have the greater applied water use per acre of land. A recent DWR study showed that applied water use of single-family dwellings and agricultural crops were similar at low housing densities (four or five units per acre). However, higher density single-family dwellings (six units or more per acre) that have become common in today's new home construction market tended to have greater applied water requirements than some crops. See Table 13.

Table 13 Water Requirements – Urban and Agricultural

Water Requirements Urban and Agricultural	
Type of Use	**Applied Water Use (af/acre)**
Urban	3.2
Agricultural	3.35
Source: California Department of Water Resources Bulletin #132-17	

Table 14 Crop Irrigation Requirements for Subject Property

Project Site - Crop Irrigation				
Year	**Crop**	**Acres**	**H_20-AcFt /Ac.**	**Total AcFt**
2019	Table Grapes	313	3.6	1,126.8
2018	Table Grapes	588	3.6	2,116.8
2017	Table Grapes	638	3.6	2,296.8
2016	Table Grapes	688	3.6	2,476.8
2015	Table Grapes	733	3.6	2,638.8
2014	Table Grapes	733	3.6	2,638.8
Source: http://coststudies.ucdavis.edu/				

Continued growth has caused expansion of urban development onto adjoining agricultural lands in the area. The DWR urban water usage (urban water use includes residential, commercial, and industrial purposes) is equivalent to about 3.2 af/acre. The typical agricultural applied water use for table grapes is 3.6 af./acre.

As agricultural conversion replaces agricultural water users with urban water usage, the average fixed costs of maintaining and operating agricultural water delivery systems increase. Agricultural water consumption could eventually decrease below the minimum threshold necessary to operate delivery systems economically.

4.8 Effects on Other Agricultural Properties or Operations

Other changes in the existing environment could affect adjacent agricultural land by limiting the agricultural feasibility of the land. The following types of effects from agricultural conversion could generally reduce agricultural feasibility:

- Conversion of farmland may affect nearby growers by placing restrictions and limitations on pesticides, fungicides, and herbicides used on the crops. Restrictions could also be placed on noise, burning, and dust.
- Layout and design of the proposed high cube buildings within close proximity could block the sun or cast shadows on the crops.
- Vehicle emissions from adjacent transportation routes and increased roadways can impact the health and survival of the crops.
- Because of increased residential and commercial development, the farmers' share of the water supply could decline as competition for water increases. Agricultural water consumption could eventually decrease below the minimum threshold necessary to operate delivery systems economically.
- As urbanization proceeds in Bakersfield, land prices may increase above the land's value for agricultural production.
- Increased traffic congestion reduces the efficiency and increases the hazards of moving crops and farm machinery along rural roads. Road congestion also increases the amount of time required to transport crops, which in turn increases shipping costs and the risk of spoilage.
- Croplands and nearby agricultural lands that support farming are important sources of food, water, and cover for some native plants and animals. These resources are largely eliminated when farmlands are converted to urban use.
- Vandalism is on the rise in the Metropolitan Bakersfield area. Fields adjacent to highways experience unauthorized entry most frequently. Trespass, crop pilferage, and damage to irrigation equipment have become common problems in Kern County. Farmers often incur major costs when farm equipment has to be left unguarded overnight and is damaged from vandalism.

Planned development near the proposed project site and planned roadway system expansion near and within the proposed project site demonstrate indicate

that the subject property is along the logical path of urban development. Planned development adjacent to the proposed project site shows that restrictions and limitations will inevitably be placed on the grower with the proximity of urban uses. In addition, planned roadways will contribute to create a buffer between the proposed project and adjacent farming operations. The implementation of the Mitigation Measures outlined in Section 5 will greatly reduce the project's impact on other agricultural properties,considering them minimal.

With respect to cumulative growth-inducing impacts, the conversion of this property from agricultural to commercial and industrial uses would increase the total acreage of urban uses.

4.9 California Agricultural Land Evaluation and Site Assessment Model – LESA

Land Evaluation and Site Assessment (LESA) is a term used to define an approach for rating the relative quality of land resources based upon specific measurable features. The formulation of the California Agricultural LESA Model is the result of Senate Bill 850 (Chapter 812/1993), which charges the Resources Agency, in consultation with the Governor's Office of Planning and Research, to develop an amendment to Appendix G of the California Environmental Quality Act (CEQA) Guidelines. Such an amendment is intended "to provide lead agencies with an optional methodology to ensure significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process" (Public Resources Code Section 21095).

A LESA Model is created by defining and measuring two separate set of factors. The first set, Land Evaluation (LE), includes two different factors (Land Capability Classification Rating and Storie Index Rating) that are intended to measure the inherent, soil-based qualities of land as they relate to agricultural suitability.

The second set, Site Assessment (SA), includes factors that are intended to measure social, economic, and geographic attributes that also contribute to the overall value of agricultural land. This second set includes four different factors to provide measures of a give project's size, water resource availability, surrounding agricultural lands, and surrounding protected resource lands.

For a given project, each of these six factors is separately rated in a 100-point scale. The factors are then weighted relative to one another and combined, resulting in a single numeric score for a given project, with a maximum attainable score of 100 points. This final project score becomes the basis for making a determination of a project's potential impacts level of significance, based upon a range of established scoring thresholds.

4.9.1 Land Evaluation Factors

The California Agricultural LESA Model includes two LE factors that are separately rated:

a. **The Land Capability Classification Rating (LCC).** The LCC indicates the suitability of soils for most kinds of crops. Groupings are made according to the limitations of the soils when used to grow crops and the risk of damage to soils when used in agriculture. Soils are rated from Class I to Class VIII, with soils having the fewest limitations receiving the highest rating (Class I). Specific Subclasses are also utilized to further characterize soils (refer to Table 1A and Table 2 in Appendix "J").

b. **The Storie Index Rating.** The Storie Index provides a numeric rating (based upon a 100 scale) of the relative degree of suitability or value of a given soil for intensive agriculture. The rating is based upon soil characteristics only. Four factors that represent the inherent characteristics and qualities of the soil are considered in the Storie Index rating. The factors are: profile characteristics, texture of the surface layer, slope, and other factors such as drainage or salinity (refer to Table 1A in Appendix "J"). In some situations, only the USDA's LCC information may be available. In those cases, the Storie Index ratings can be calculated from information contained in soil surveys by qualified soil scientists. If, however, limitation of time and/or resources restrict the derivation of the Storie Index rating for a given project, it may be possible to adapt the LE by relying solely upon the LCC rating.

4.9.2 Site Assessment Factors

The four SA factors that are separately rated and included in the California Agricultural LESA Model are:

a. The Project Size Rating. The Project Size rating is based upon identifying acreage figures for three separate grouping of soil classes within the project site, and then determining with grouping generates the highest Project Size score. The Project Size Rating relies upon acreage figures that were tabulated under the Land Capability Classification Rating (refer to Table 1B and Table 3 in Appendix "J").

b. The Water Resources Availability Rating. The Water Resources Availability rating is based upon identifying the various water sources that may supply a given property, and then determining whether different restrictions in supply are likely to take place in years that are characterized as being periods of drought and non drought (refer to Table 4 and Table 5 in Appendix "J").

c. The Surrounding Agricultural Land Rating. Determination of the Surrounding Agricultural Land rating is based upon identification of a

project's Zone of Influence (ZOI), which is defined as that land near a given project, both directly adjoining and within a defined distance away, that is likely to influence, and be influenced, by the agricultural land use of the subject project site. The Surrounding Agricultural Land rating is designed to provide a measurement of the level of agricultural land use for lands in close proximity to a given project. The California Agricultural LESA Model rates the potential significance of the conversion of an agricultural parcel that has a large proportion of surrounding land in agricultural production more highly than one that has relatively small percentage of surrounding land in agricultural production. The definition of the ZOI that accounts for surrounding lands up to a minimum of one quarter mile from the project boundary is the result of several iterations during model development for assessing an area that will generally be a representative sample of surrounding land use (refer to Table 6 in Appendix "J").

d. The Surrounding Protected Resource Land Rating. The Surrounding Protected Resource Land rating is essentially an extension of the Surrounding Agricultural Land rating, and it is scored in a similar manner (refer to Table 7 in Appendix "E"). Protected resource lands are those lands with long-term use restrictions that are compatible with or supportive of agricultural uses of land. Included among them are the following:

- Williamson Act contracted lands
- Publicly owned lands maintained as a park, forest, or watershed resources
- Lands with agricultural, wildlife habitat, open space, or other natural resource easements that restrict the conversion of such land to urban and industrial uses.

4.9.3 Final LESA Scoring

A single LESA score is generated for a given project after all the individual LE and SA factors have been scored and weighted. The California Agricultural LESA Model is weighted so that 50 percent of the total LESA score of a given project is derived from the LE factors and 50 percent from the SA factors. Individual factor weights are listed in Table 12, with the sum of the factor weights required to equal 100 percent. For the subject property, the final LESA score is determined to be 87.45 points. (See Table 16)

Table 15 Land Evaluation and Site Assessment Factors

Land Evaluation and Site Assessment Factors	
Land Evaluation Factors	
Land Capability Classification (LCC)	25%
Storie Index Rating	25%
Land Evaluation Subtotal	**50%**
Site Assessment Factors	
Project Size Rating	15%
Water Resource Availability Rating	15%
Surrounding Agricultural Lands Rating	15%
Surrounding Protected Resource Lands Rating	5%
Site Assessment Subtotal	**50%**
TOTAL LESA FACTOR WEIGHTING	**100%**

For the subject property, the final LESA score was determined to be as follows:

Table 16 Land Evaluation and Site Assessment Final Score

Land Evaluation and Site Assessment			
Factor Name	**Factor Rating (0-100 Points)**	**Factor Weighting (Total=1.0)**	**Weighted Factor Rating**
Land Evaluation			
Land Capability Classification	85.9	0.5	42.95
Storie Index Rating	--	-	-
Site Assessment			
Project Size	100	0.15	15
Water Resource Availability	100	0.15	15
Surrounding Agricultural Lands	90	0.15	13.5
Protected Resource Lands	20	0.05	1.0
	Total LESA Score		**87.45**

The Kern County California Soil Survey for the Southwestern region does not include the Storie Index for each soil unit, therefore the LE portion of the analysis accounts for 50 percent of the LESA Score.

4.9.4 Threshold of Significance

The California Agricultural LESA Model is designed to make determinations of the potential significance of a project's conversion of agricultural lands during the Initial Study phase of the CEQA process. Scoring thresholds are based upon both the total LESA score and the component LE and SA separate subscores. In

this manner the scoring thresholds are dependent upon the attainment of a minimum score for the LE and SA subscores so that a single threshold is not the result of heavily skewed subscores (i.e., a site with a very high LE score but a very low SA score, or vice-versa). The California Agricultural LESA Model scoring thresholds are as follows:

Table 17 LESA Model Scoring Thresholds

LESA Model Scoring Thresholds	
Total LESA Score	**Scoring Decision**
0 to 39 points	Not considered significant
40 to 59 points	Considered significant only if LE and SA subscores are each greater than or equal to 20 points
60 to 79 points	Considered significant unless either LE or SA subscore is less than 20 points
80 to 100 points	Considered Significant

According to the California Agricultural LESA Model Threshold of Significance, the total score of 87.45 points for the subject property would be considered a significant environmental impact resulting from the conversion of agricultural properties to non-agricultural uses (LE and SA are both more than 20 points). This is due to the project size, water resource availability, soil quality, and surrounding agricultural lands.

5.0 Mitigation

The applicant may be required to mitigate the loss of agricultural lands, on a one-to-one basis, as determined by the Planning Director. Prior to securing a grading or building permit, whichever occurs first, the applicant shall submit written verification of the applicant's compliance with this mitigation measure to the Planning Director's satisfaction. Compliance with this condition may be phased as the project is developed. The amount of agricultural land to be mitigated shall be equal to the amount of land being developed as each phase is developed.

During the life of the project, if the County of Kern or other responsible agency adopts an agricultural land mitigation program that provides equal or more effective mitigation, the applicant may choose to participate in that alternate program to mitigate the loss of agricultural land impacts. Prior to participation in the alternate program, the applicant shall obtain written approval from the Kern County Planning Department agreeing to the participation, and the applicant shall submit written verification of compliance with the alternate program at the same time described above in the first paragraph.

Completion of the mitigation measure, or with the Planning Director's approval, a combination of mitigation measures, can be on qualifying agricultural land within the San Joaquin Valley (San Joaquin, Stanislaus, Merced, Fresno, Madera, Kings, Tulare, Kern), or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land. The following Mitigation Measures would reduce the impacts of the project:

- AG-1 – Buffers such as setbacks, berms, greenbelts, canal, and open space areas shall be established to separate farmland from incompatible urban uses.
- AG-2 – Right-to-Farm Covenant shall be placed on the project property acknowledging and implementing Chapter 8.56 – RIGHT-TO-FARM AND RIGHT-TO-BUSINESS.

  8.56.010 – Not a nuisance.

  A. No agricultural, ranching, hydrocarbon extraction or refining, energy production or mining activity, operation, or facility, or appurtenances thereof, as defined in Civil Code Sections 3482.5(e) and 3482.6(e), or any transportation activity in conjunction therewith, lawfully established and conducted or maintained in a manner consistent with lawful, proper and accepted customs and standards as established by similar activities in the same locality, shall be or become a nuisance, public or private, due to any changed condition in or about the locality, including, but not limited to, unrelated residences, if it was not a nuisance at the time it began.
- AG-3 – Project shall be designed to reduce conflicts to the extent feasible between the project and its operation and the continued use of adjacent properties in active commercial agricultural production. Design considerations shall include, but not exclusive to: windows that open and ventilation systems placed so as to not bring in air adjacent to agricultural operations; project egress and ingress not in conflict with agricultural operations or access to the fields; sufficient on-site parking to discourage parking on or adjacent to agricultural lands; prohibition of such off-site parking; provisions for physical buffers or zones between the project and agricultural operations that reduce conflicts between agricultural uses and the project.
- AG-4 – Farmland related resources such as water necessary for agriculture will be protected.
- AG-5 – Methods for providing mitigation could include mitigation bank credits or conservation easements per California Civil Code 815 et seq. Appendix 1.
- AG-6 – Paying in-lieu fees that would contribute to an agricultural resource protection fund that could be used to purchase voluntary conservation easements or complete other projects that will protect and conserve

agricultural land. Mitigation standards can address the valuation and geographic location of agricultural land.

- AG-7 – Mitigation ratio, for example each 1-acre of agricultural land lost to development 2-acres shall be acquired under easement (2:1, similar to the City of Davis), or a 1:1 ratio (similar to the City of Brentwood) for land lost to development.
- AG-8 – Encourage municipalities in Kern County to adopt agricultural mitigation ordinances (protect agricultural lands from conversion to non-agricultural uses).
- AG-9 – Compensate for the impact by replacing or providing substitute resources or environments.

6.0 Conclusions

It is assumed that further development of the MBGP Planning Area will occur, and most likely on "prime" agricultural soils that exist on the valley floor. The MBGP concludes that conversion of prime agricultural lands to urban uses will result in a reduction of the regional agricultural economy and is considered a significant adverse impact. However, a statement of overriding conditions for this impact was adopted when the MBGP was certified. With implementation of mitigation measures found in Section 5.0 Mitigation, impacts within the southern portion of the project site and MBGP area would be less than significant. Since the project is not completely within the MBGP, the statement of overriding conditions cannot be fully relied upon. Conversion of prime agricultural lands to urban uses in the northern portion of the project site governed by the KCGP and its related policies will result in a significant and unavoidable adverse impact.

While conflicts between urban and farming uses may exist, diminishing the edge relationships and exposures between the two, as well as adopting policies and regulations to mitigate their mutual impacts can minimize them. State and Federal Law restricts pesticide use in certain areas, and "right-to-farm" ordinances alone would not diminish the impact of the restrictions on pesticide use on farming operations. The project site will be adjacent to residential uses along its eastern boundary. The proposed project would be separated from adjacent properties by existing and planned roadways, which would contribute to minimize land use conflicts. Highway 99 would provide a buffer between uses within the project site and agricultural activities west of it. The future Expressway, and Burbank Street would provide a buffer on the north side, and Imperial Avenue on the south side.

Implementation of the proposed project will result in a conversion of approximately 738.48 acres of farmland to urban uses. These 738.48 acres include approximately 738.48 acres of soil capability Class I, II and III irrigated prime agricultural land. The potential lost crop value is theoretically estimated at $9,854,880 for 588 acres of table grapes with a yield of 10 tons/acre (based on 2018 crop data).

According to the California Agricultural LESA Model Threshold of Significance, the total score of 87.45 points for the subject property would be considered a significant environmental impact resulting from the conversion of agricultural properties to non-agricultural uses (LE and SA are both more than 20 points). This is due to the project size, water resource availability, soil quality, and surrounding agricultural lands.

Implementation of the proposed project would result in a significant impact from the conversion of approximately 738.48 acres of land currently used for agricultural uses to urban uses. A statement of overriding considerations for this impact for portion of the site was adopted when the MBGP was certified. Implementation of mitigation measures found in Section 5.0 Mitigation would help reduce impacts, but would still be considered significant and unavoidable.

Detailed findings according to the MBGP requirements (Chapter V - Conservation/Soils and Agriculture Element, Policy 14) are presented below.

Soil quality

Finding: The proposed project site is comprised of: (138) Delano sandy loam, 0 to 2 percent slopes (93.05 acres); (145) Delano sandy loam, 1 to 5 percent slopes (402.47 acres); (174) Kimberlina fine sandy loam, 0 to 2 percent slopes MLRA 17 (113.73); and (184) Lewkalb sandy loam, 0 to 2 percent slopes (45.79 acres), which, as classified by the United States Department of Agriculture Soil Conservation Service, are Class IIs and IIIs soils respectively. This soil unit is also classified as a prime farmland soil by the Kern County Soil Survey, Southwest Kern. The entire site is considered prime per the California Land Conservation Act and the MBGP definition. Approval and implementation of the land use change will result in a loss of approximately 738.48 acres of prime agricultural land.

Implementation of the proposed project will result in a conversion of approximately 738.48 acres of farmland to urban uses. These 738.48 acres include approximately 738.48 acres of soil capability Class I and Class II irrigated prime agricultural land. The lost crop value is theoretically estimated at $9,854,880 for 588 acres of table grapes (based on 2018 crop data).

The MBGP states that conversion of prime agricultural lands to urban uses will result in a reduction of the regional agricultural economy and is considered a significant adverse impact. However, statement of overriding considerations for this impact was adopted when the MBGP was certified Implementation of the proposed project would result in a significant impact from the conversion of approximately 738.48 acres of land currently used for agricultural uses to urban uses. However, with implementation of mitigation measures found in Section 5.0 Mitigation, the project would be considered an insignificant impact.

Availability of irrigation water

Finding: The property has several irrigation pumps and irrigation filtration system located on the site used for crop irrigation. In addition, water within Phase 1 is available from Cawelo Water District and due to SGMA they must have an agreement with Oildale Mutual Water District to extract groundwater Phase 2 is in North Kern Water District which has an agreement with Oildale Mutual Water District. If water is unavailable from the District, the main sources of water for irrigation is Lerdo Canal.

Water demands change somewhat when croplands are converted to urban uses. Urban water consumption is higher in most industrial uses. Irrigation in a drought year with potential periods of power outages and the announcements of reduced water supply can severely reduce crop yields. Growers have seen increases in water supply costs for their crops which are attributed to the higher costs on energy (electrical) to run the pumps.

Unless existing Agricultural wells are deemed useful, they will be abandoned when the agricultural production ceases in anticipation of the pending industrial development.

No Impact

Proximity to non-agricultural uses

Finding: Planned future development and planned roadway system expansion near and within the proposed project site demonstrate that the project is along the logical path of urban development.

- Future Expressway alignment within the Phase 1 boundary of the proposed project
- Interchange on/off ramps at Burbank Street from State Highway 99

The property is comprised of two (2) phases. Phase 1 is located between Burbank Street to the north and Imperial Avenue to the south, between the Lerdo Canal and Imperial Road to the west and east, respectively including that portion of the west half of the northwest quarter of Section 29 lying east of Imperial Road. Phase 2 including the property between State Hwy 99 and the Lerdo Canal, to the west and east respectively, lying south of Lerdo Hwy and north of Imperial Avenue. The roadway right-of-way will serve as buffers for most of the project boundaries.

Current development near the Subject Property (southeast) and the above-mentioned considerations show that the subject property is along the logical path of urban development.

Proximity to intensive parcelization

Finding: The encroachment of urban uses on existing agricultural areas can result in negative interactions between farmers and urban neighbors. Farming

operations can affect urban neighbors by creating inconveniences or discomforts such as equipment noise, odors from manure and other chemicals, and dust or smoke. Urban uses can create adverse impacts to farmers such as the introduction of pests, disease and weeds, increased complaints about noise, dust, smoke, odors, and spray drift from pesticide and fertilizer use, restrictions to the application of pesticides and chemicals, increased flooding and siltation, and increased traffic, vandalism, and trespassing.

The subject property will be significantly and unavoidably affected by the close proximity of urbanized areas. Farming practices will be more restricted as to the manner of application and type of herbicides and pesticides that can be utilized in the vicinity of these urbanized areas. The subject property, as well as others in the area, is the next logical step for urbanization in this area due to the planned urban development near the property and its significant impacts to the crop production.

Effects on properties subject to Williamson Act land use contracts

Finding: The project site is not subject to a Williamson Act land use contracts.

No Impact.

Ability to be provided with urban services

Finding: As part of the proposed project the developer will provide infrastructure services adequate for the project. Development standards and ordinances will require provisions of infrastructure and public service financing, water facility development, subdivision mapping, vesting of rights, and other matters.

No Impact

Ability to affect the application of agricultural chemicals on nearby agricultural properties

Finding: Urban encroachment impacts adjacent lands remaining in agricultural production as conflicts arise from the infringement of the new industrial users, into the area.

The level of significance of any impact on local growers resulting from development of the proposed project is considered minimal due to restrictions and limitations that are placed on the growers with the proximity of planned urban developments. In addition, existing and planned roadways will create buffers between the proposed project and adjacent farming operations.

No Impact

Ability to create a precedent-setting situation that leads to the premature conversion of prime agricultural lands

Finding: The conversion of this property from agricultural use to industrial use is not expected to create a precedent-setting situation that leads to the premature conversion of prime agricultural lands. Proposed development (shown in Appendix "B") demonstrates that the project is along the logical path of urban development.

No Impact

Demonstrated project need

Finding: The MBGP states that the Bakersfield Planning Department projects the population of the plan area to be 520,500 in the Year 2020. Population growth will result in the need for approximately 37,000 housing units (MBGP – Land Use Element, Page II-4). The proposed project intends to create industrial services for the rapidly growing Bakersfield community, and job opportunities in a manner consistent with the goals and policies of the MBGP. The proposed project will also ensure that the area develops in a comprehensive and coordinated fashion with adequate consideration of traffic and circulation, public safety, site and resource management and project financing.

It is assumed that future development in the MBGP Planning Area would continue to include "prime" agricultural soils that exist on the Valley floor. This loss has not limited itself to the City of Bakersfield and Kern County but has become an issue of statewide concern. The MBGP concludes that conversion of prime agricultural lands to urban uses will result in a reduction of the regional agricultural economy and is considered to be a significant adverse impact. A statement of overriding considerations for this impact was adopted when the MBGP was certified.

Planned urban development southeast of the site, and within close proximity near the proposed project site indicates that this project is on the logical path of development. The MBGP encourages the orderly outward expansion of new urban development that maintains continuity of existing development and allows incremental expansion of infrastructure and public services. The proposal complies with the MBGP's criteria.

No Impact

Necessity of buffers such as lower densities, setbacks, etc.

Finding: If urban developments do not include buffer zones in their design, growers must sometimes allocate a portion of their land to the creation of a buffer zone adjacent to agricultural fields. As an example, growers might be required to refrain from spraying or harvesting the outside rows of their crops. In those cases, buffer zones represent a loss to the farmer of both crop production and income.

Buffer zones can consist of a road, canal, walls, easements, setbacks, etc. The property is comprised of two (2) phases. Phase 1 is located between Burbank Street to the north and Imperial Avenue to the south, between the Lerdo Canal and Imperial Road to the west and east, respectively including that portion of the west half of the northwest quarter of Section 29 lying east of Imperial Road. Phase 2 including the property between State Hwy 99 and the Lerdo Canal, to the west and east respectively, lying south of Lerdo Hwy and north of Imperial Avenue. The roads right-of-way will serve as general buffers for most of the project boundaries.

The future development of the subject property is not proposing the creation of a buffer zone. However, compliance with the Kern County Zoning and Subdivision Ordinances, and with implementation of mitigation measures found in Section 5.0 Mitigation will guarantee that adequate buffers be provided to avoid conflict between agricultural and urban uses.

No Impact

7.0 Resources

- **Air Quality Resources Board**

  (Air Quality San Joaquin Valley -2020)

- **California Department of Conservation – Office of Land Conservation**

  (California Agricultural Land Evaluation and Site Assessment Model – Instruction Manual – 1997)

- **California Department of Food and Agriculture**

  (California Agricultural Resource Directory 2018 Crop Year Production Information)

- **California Farm Bureau Federation**

  (Facts and Stats about California Agriculture – 2017-2018)

- **California Farm Water Coalition**

  (The Water Fact Book – California Agriculture and Its Use of Water)

- **City of Bakersfield**

  (Metropolitan Bakersfield General Plan Map, West - 2013)

- **Farmland Mapping and Monitoring Program - Department Of Conservation**

  (Farmland Conversion Report 2004 to 2018)

  (Kern County – Interim Farmland Area 2004-2018 Land Use Conversion)

  (Kern County – Important Farmland Area 2016-2018 Land Use Conversion)

  (Important Farmland in California, 2018)

- **Kern County Planning and Development Services Department**

  (Kern County Zoning Ordinance – March 2020)

  (Kern County General Plan Elements – Land Use, Open Space, and Conservation Element)

  (Williamson Act Land Use Contract – GIS Mapping)

  (Hazardous Wastes and Substances Site List – 2019)

  (Guidelines for Agricultural Soils/Farmland Conversion Studies)

- **Kern County Department Of Agriculture and Measurement Standards**

  (Pesticide Use Report Data – 2014-2019)

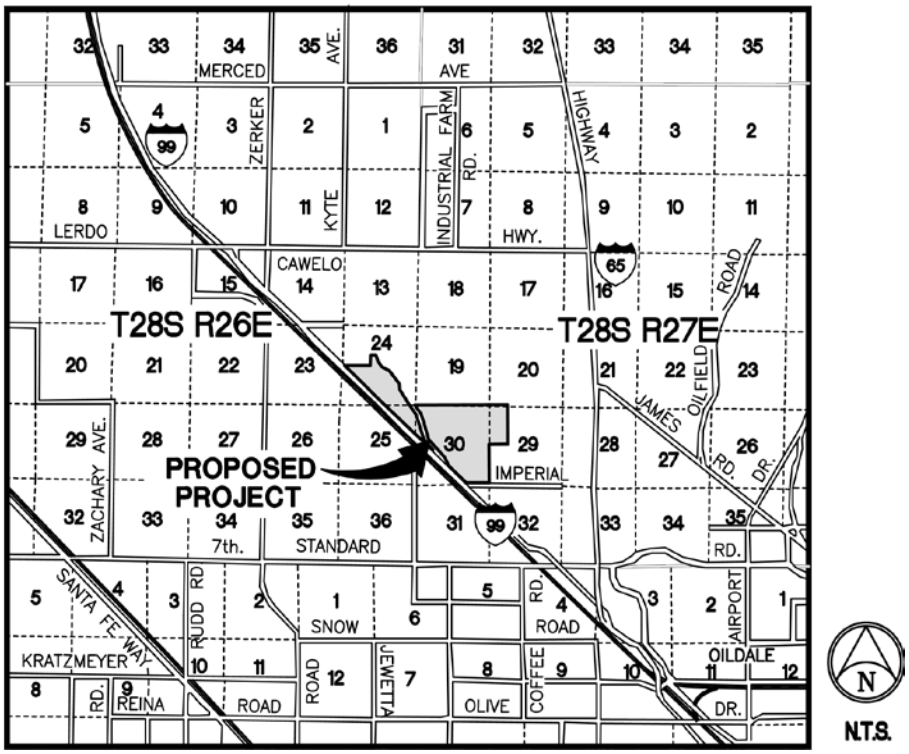
  (Kern County Agricultural Crop Reports – Summary, Top Twenty Crops, – Fruit and Nut Crops 2014-2019)

- **State of California**
  (California Environmental Quality Act, Sacramento - January 1991)
  (California Health and Safety Code § 11501 thru 11503)
  (California Health and Safety Code § 26569.24 thru 26569.28)
  (A.B. 645, Ch. 1135: Organic Food Act - February 21, 1991)
  (Division of Oil, Gas & Geothermal Resources –1998)
- **United States Department of Agriculture, Natural Resources Conservation Services**
  (Southwest Kern Soil Survey Maps and Information, 2006)
- **United States Department of Agriculture - Soil Conservation Service**
  (USDA Soil Survey of Kern County, California, Southwestern Part)
- **University of California Cooperative Extension**
  (Sample Cost to Establish and Produce)
  (California Production in California)
- **University of California Davis**
  (Agriculture in Urbanizing Communities – July 21, 2000)
- **Environmental Data Resources**
  (Aerial Photographs 1937; 1952; 1968; 1994; 2005; 2012)
- **Kern County Engineering and Survey Services**
  (Aerial Photographs 2013; 2014; 2015; 2016; 2017; 2018)
- **United States Geological Survey**
  (Topographic Quadrangle Map Rosedale and Oildale, CA)
- **Federal Emergency Management Agency**
  (Flood Insurance Rate Map Community Panel 06029C1825E)
- **California Department of Water Resources**
  (SGMA Bulletin 118)

APPENDIX A

Figures



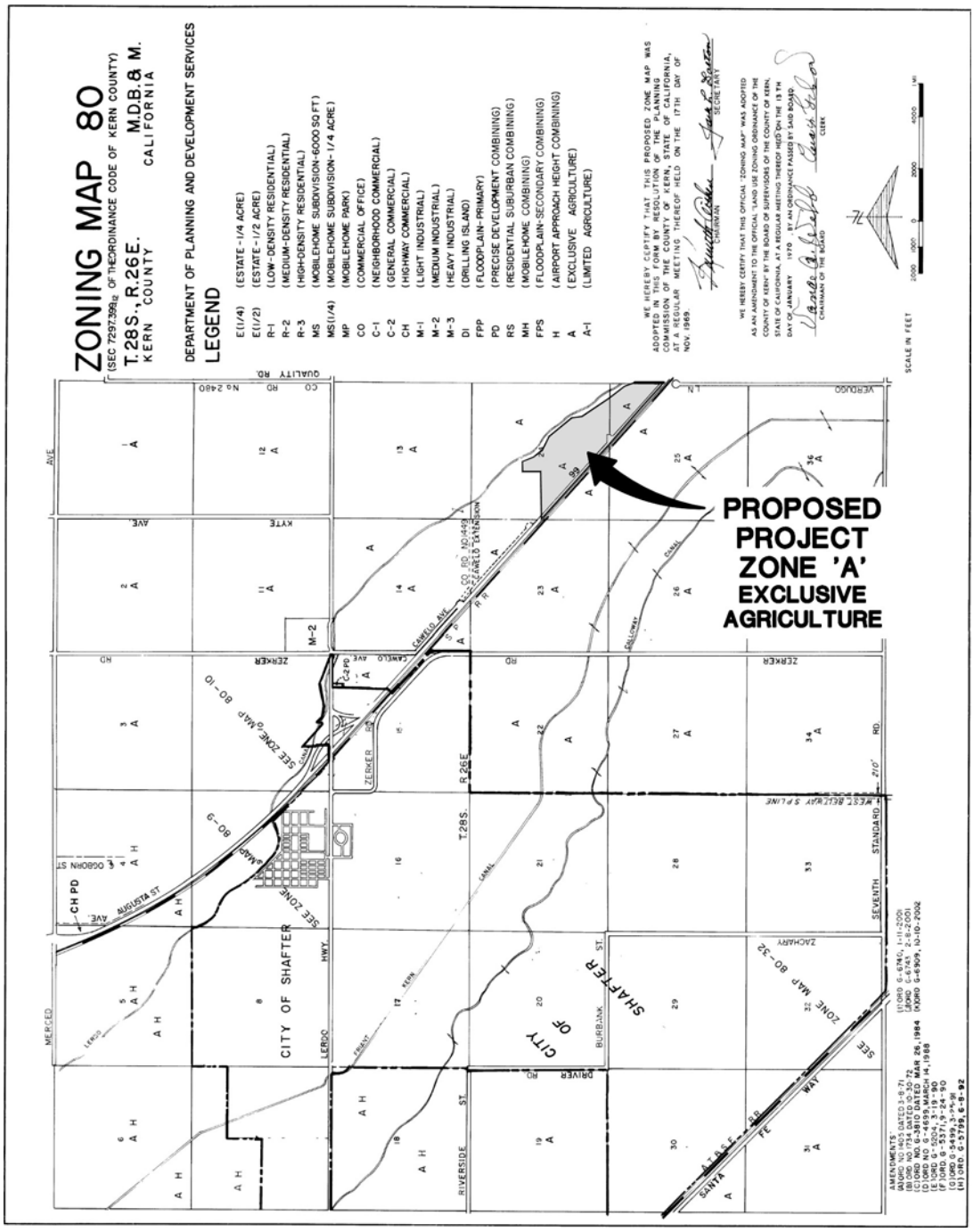


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Project Location Maps

Figure A-1

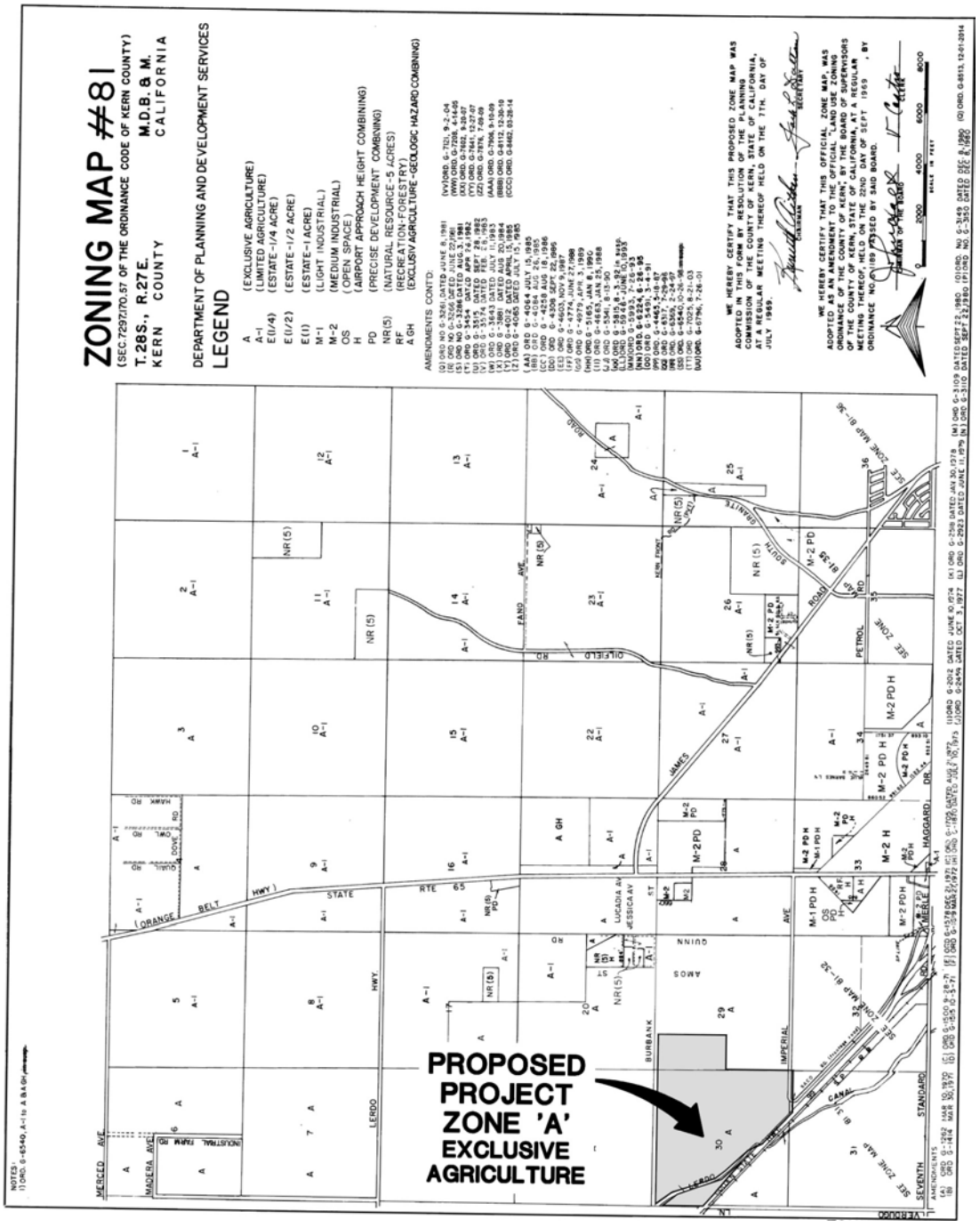


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

County of Kern Zoning Map 80

Figure A-2

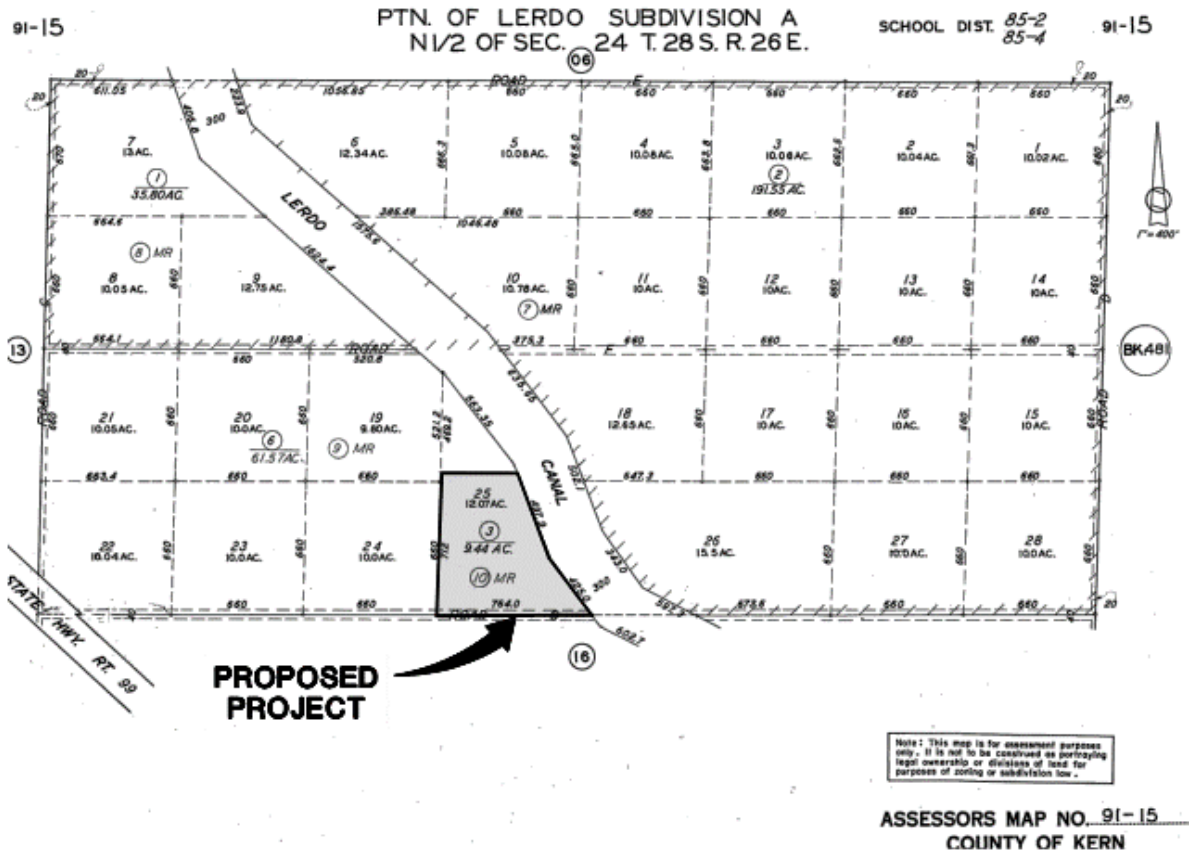


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

County of Kern Zoning Map 81

Figure A-3

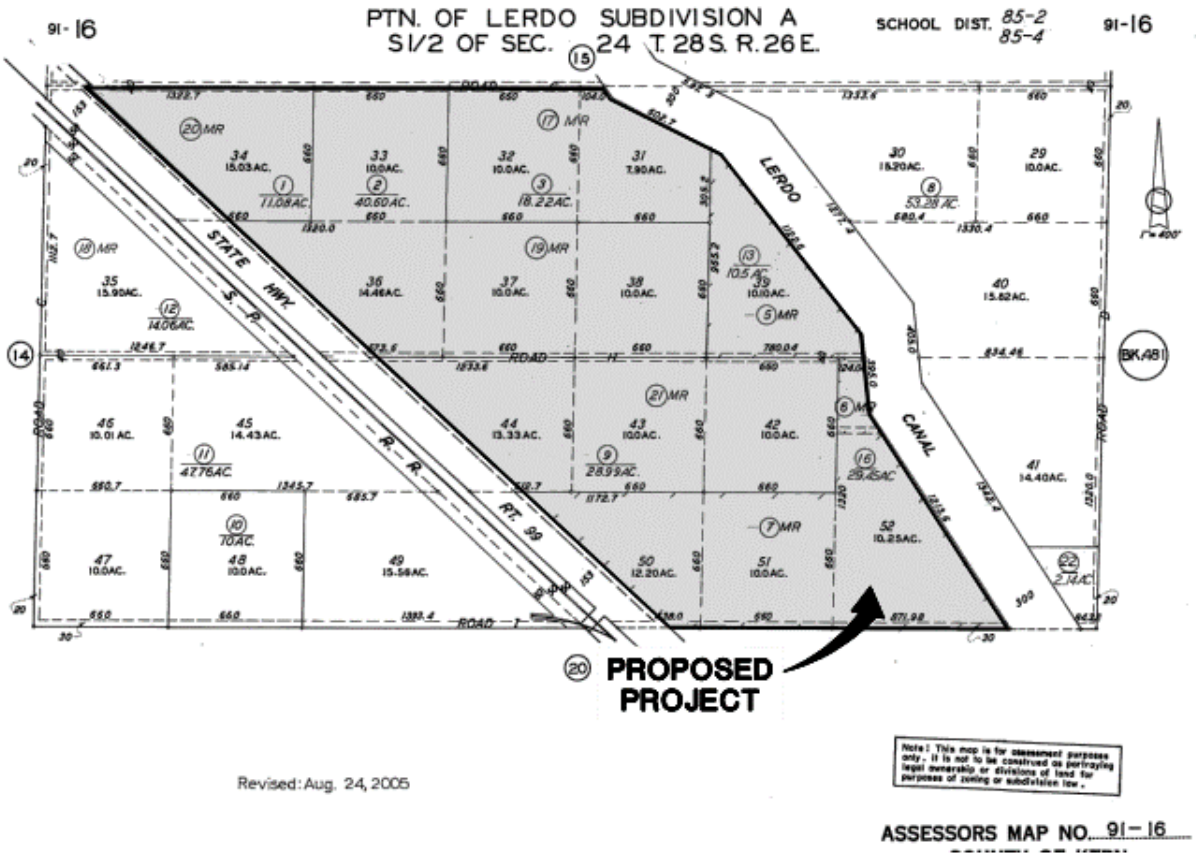


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Assessors Parcel Map 91-15

Figure A-4

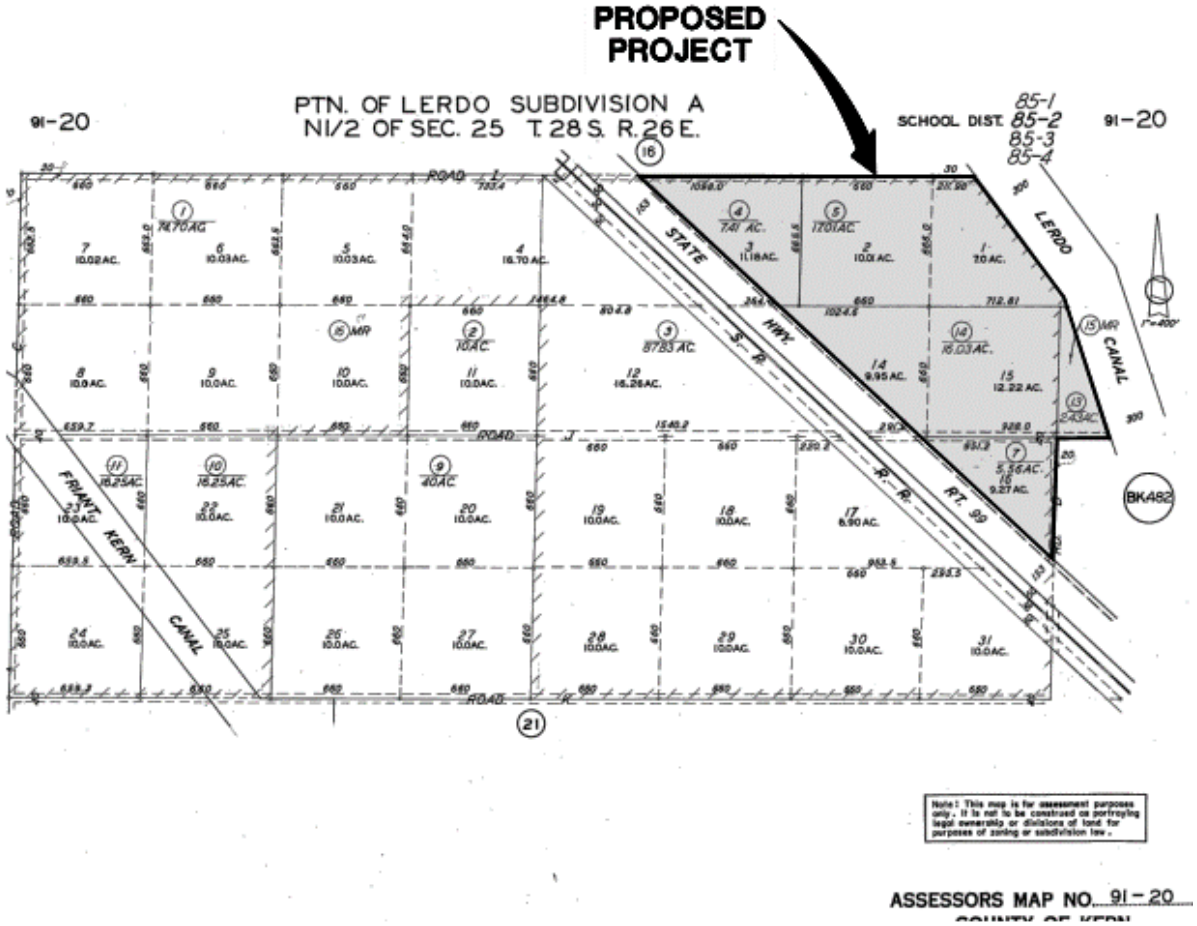


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Assessors Parcel Map 91-16

Figure A-5

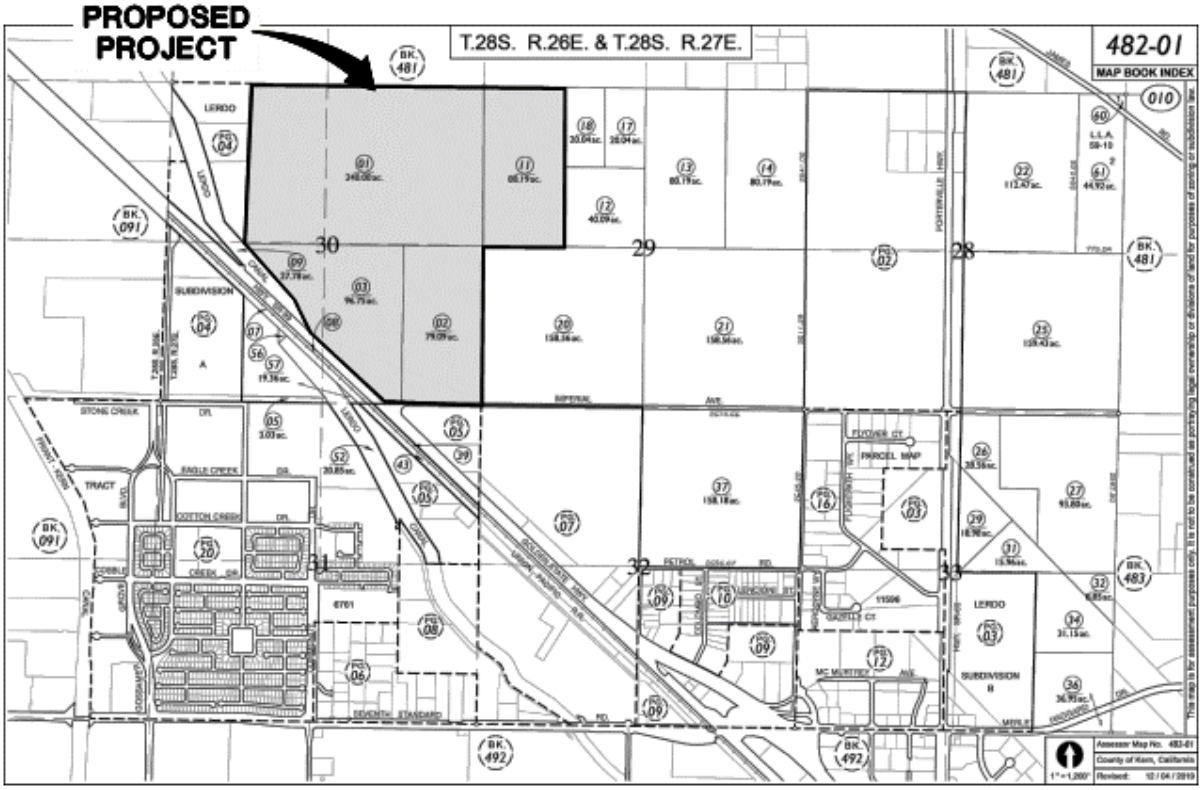


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Assessors Parcel Map 91-20

Figure A-6

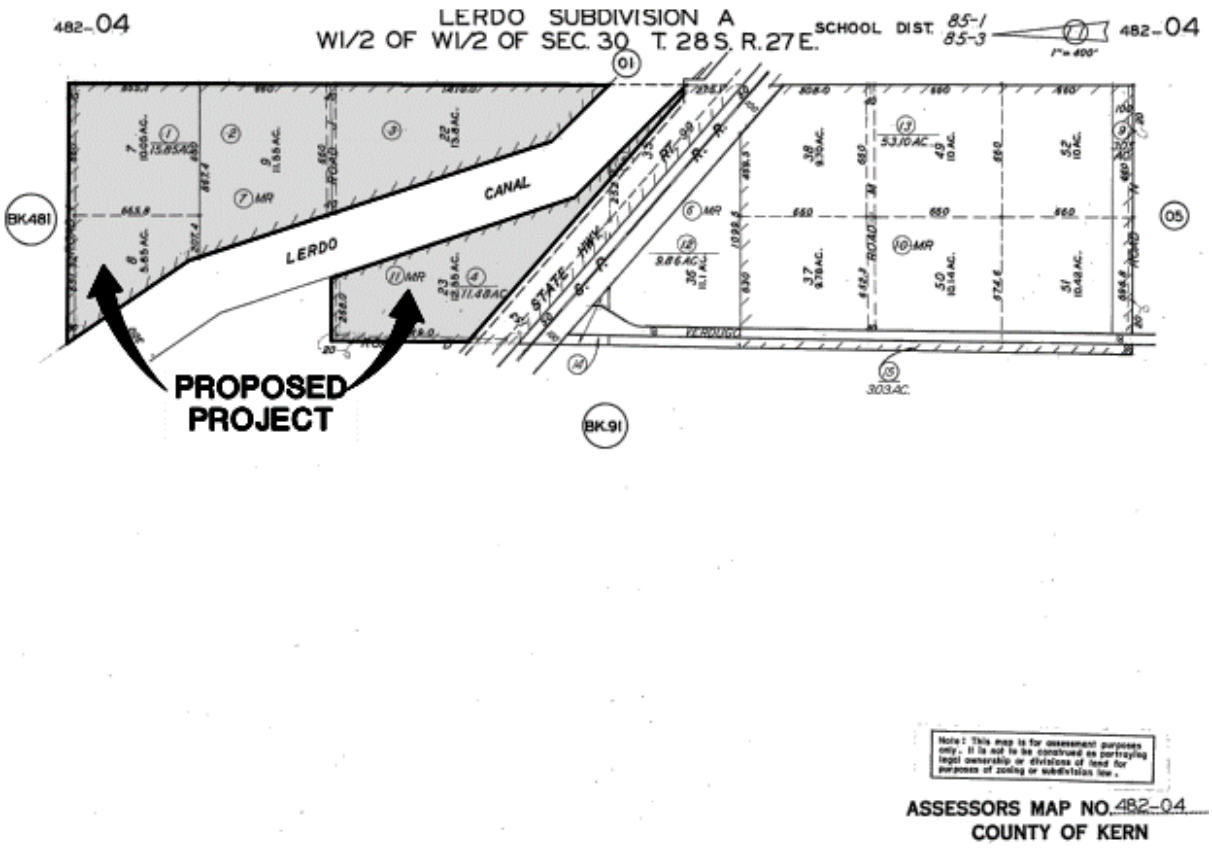


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Assessors Parcel Map 482-01

Figure A-7



PROPOSED PROJECT

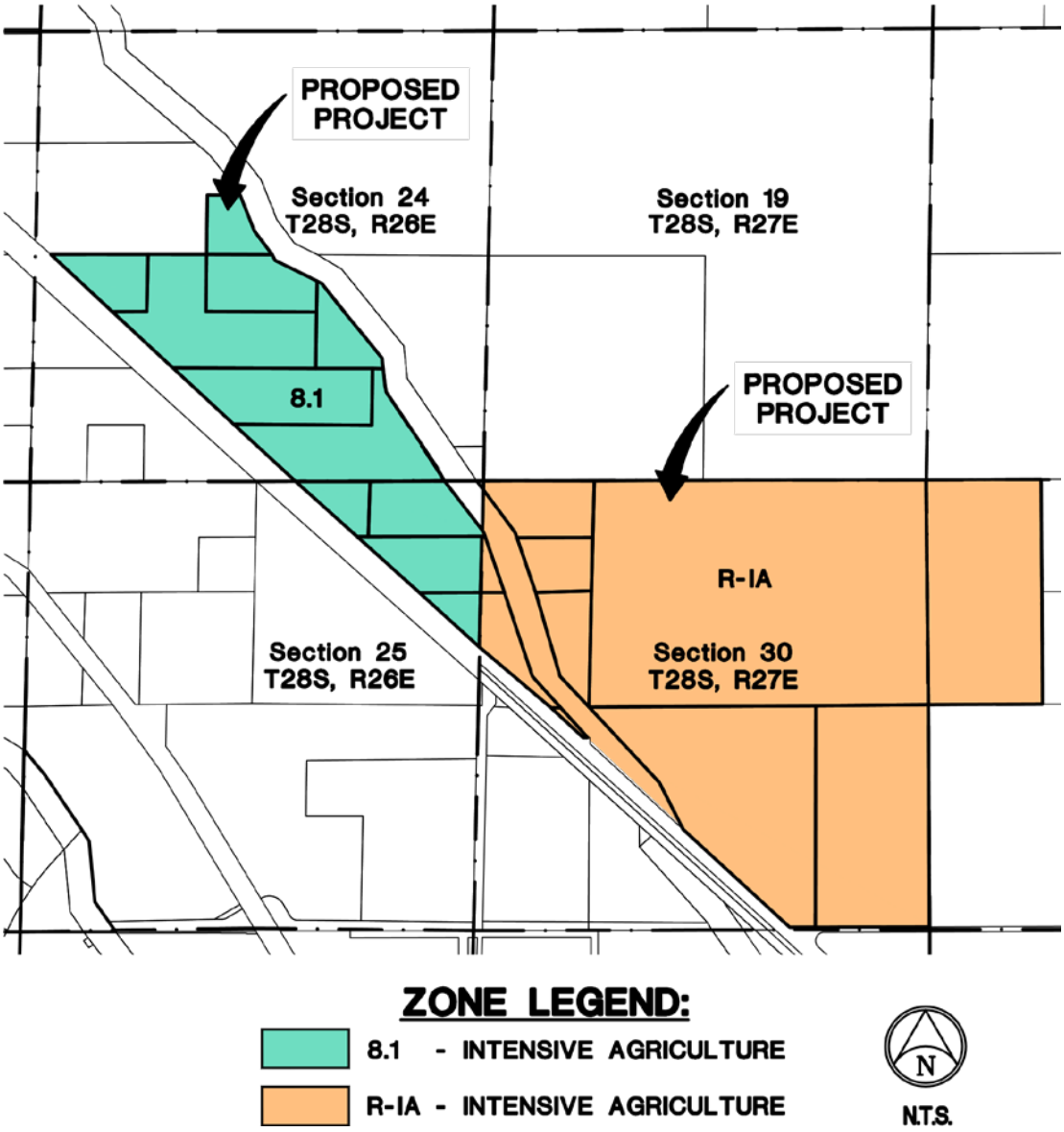
Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Assessors Parcel Map 482-04

Figure A-8

APPENDIX B

Figures

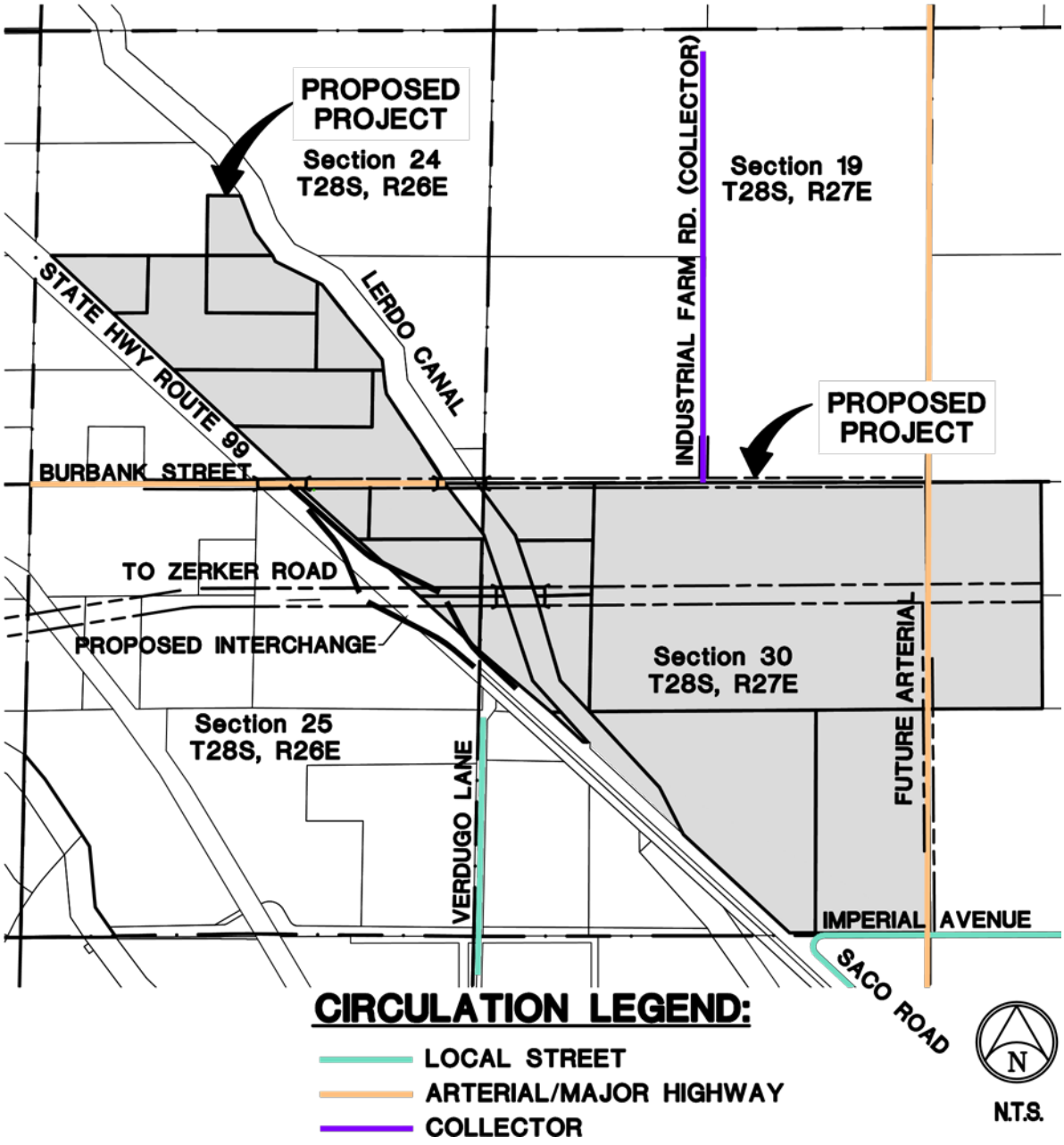


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Kern County General Plan

Figure B-1

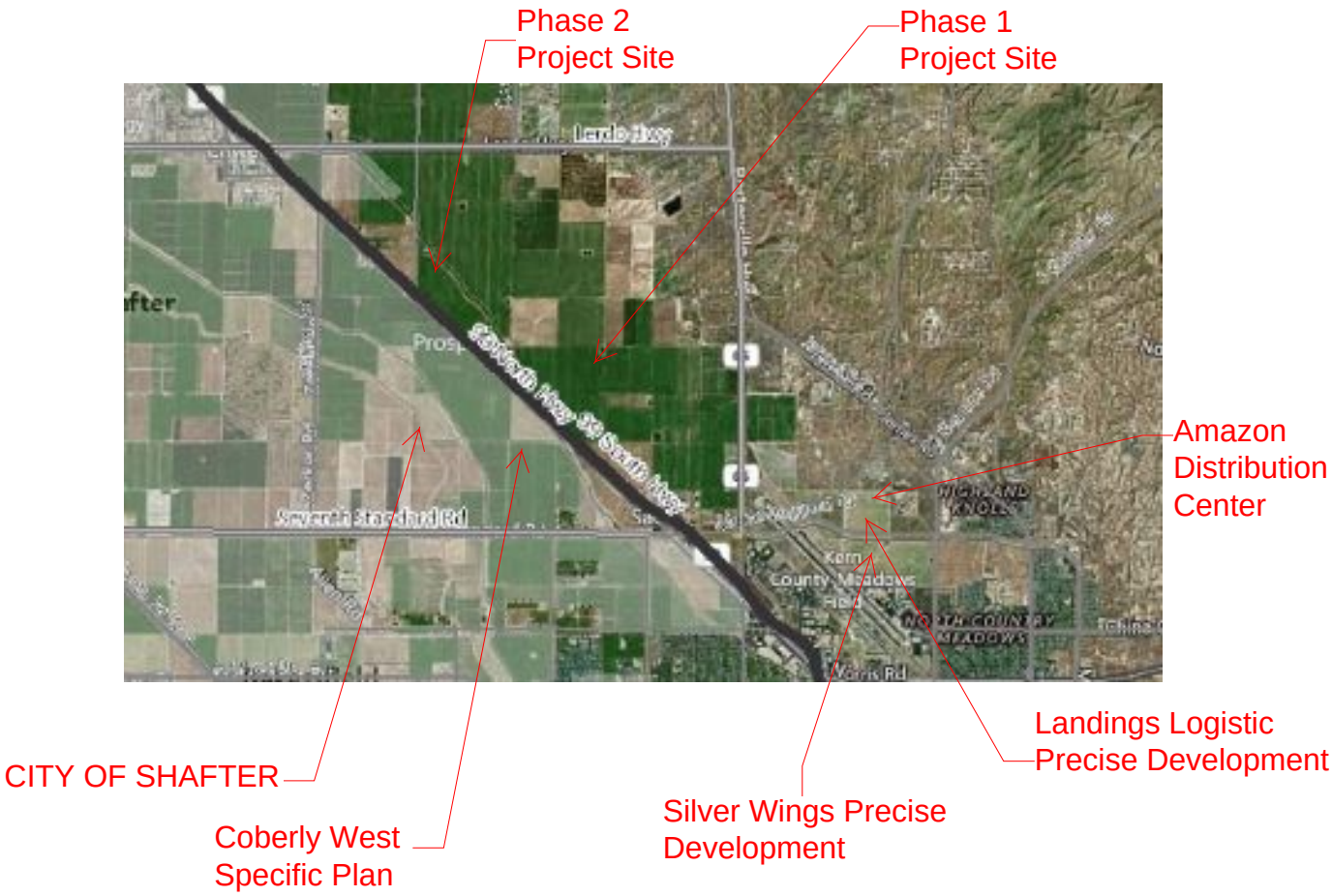


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Kern County Circulation Map

Figure B-2



PROPOSED PROJECT

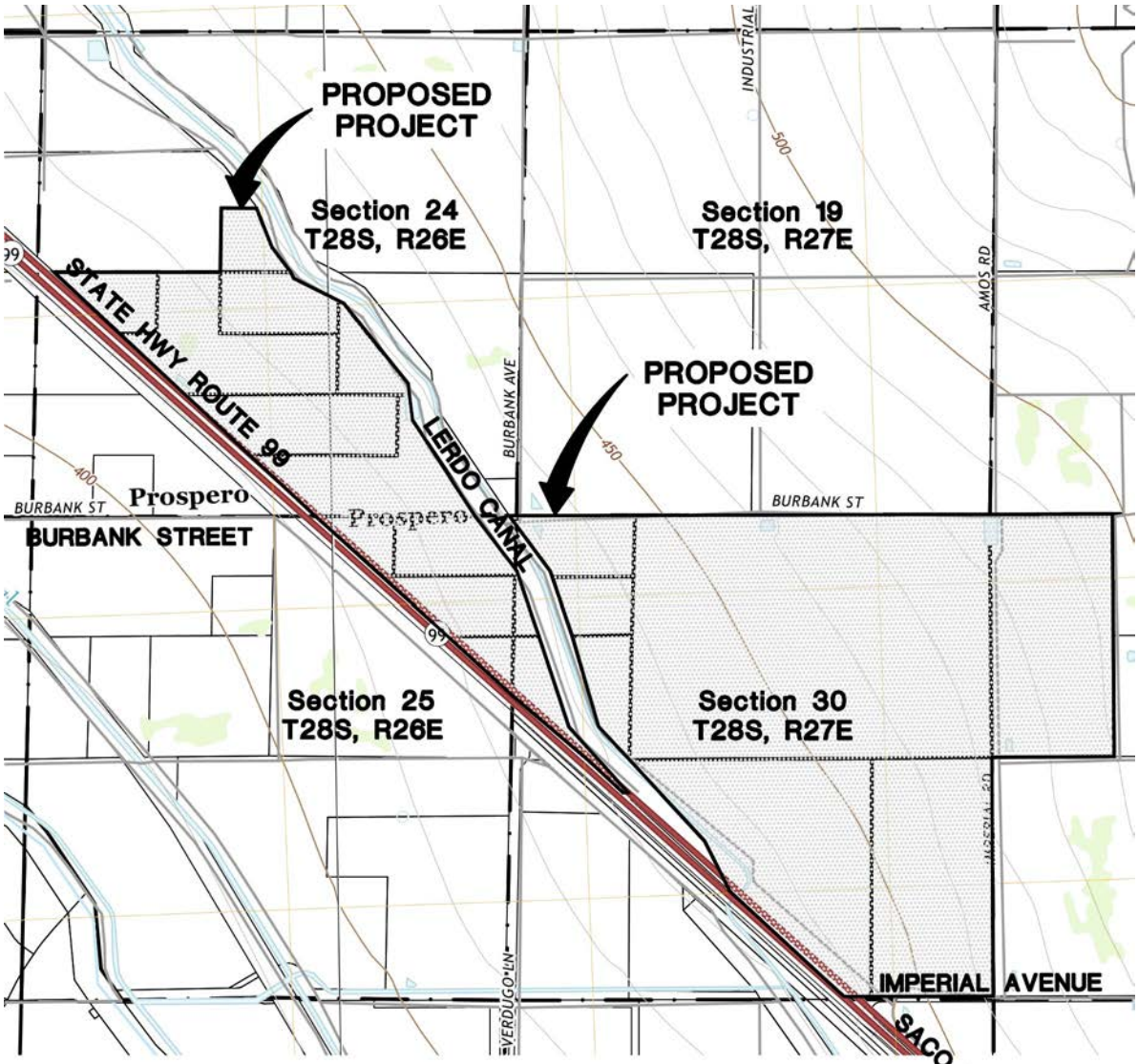
Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Kern County Developments near Proposed Project

Figure B-3

APPENDIX C

Figures



USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

ROSEDALE QUADRANGLE
CALIFORNIA - KERN COUNTY
7.5-MINUTE SERIES

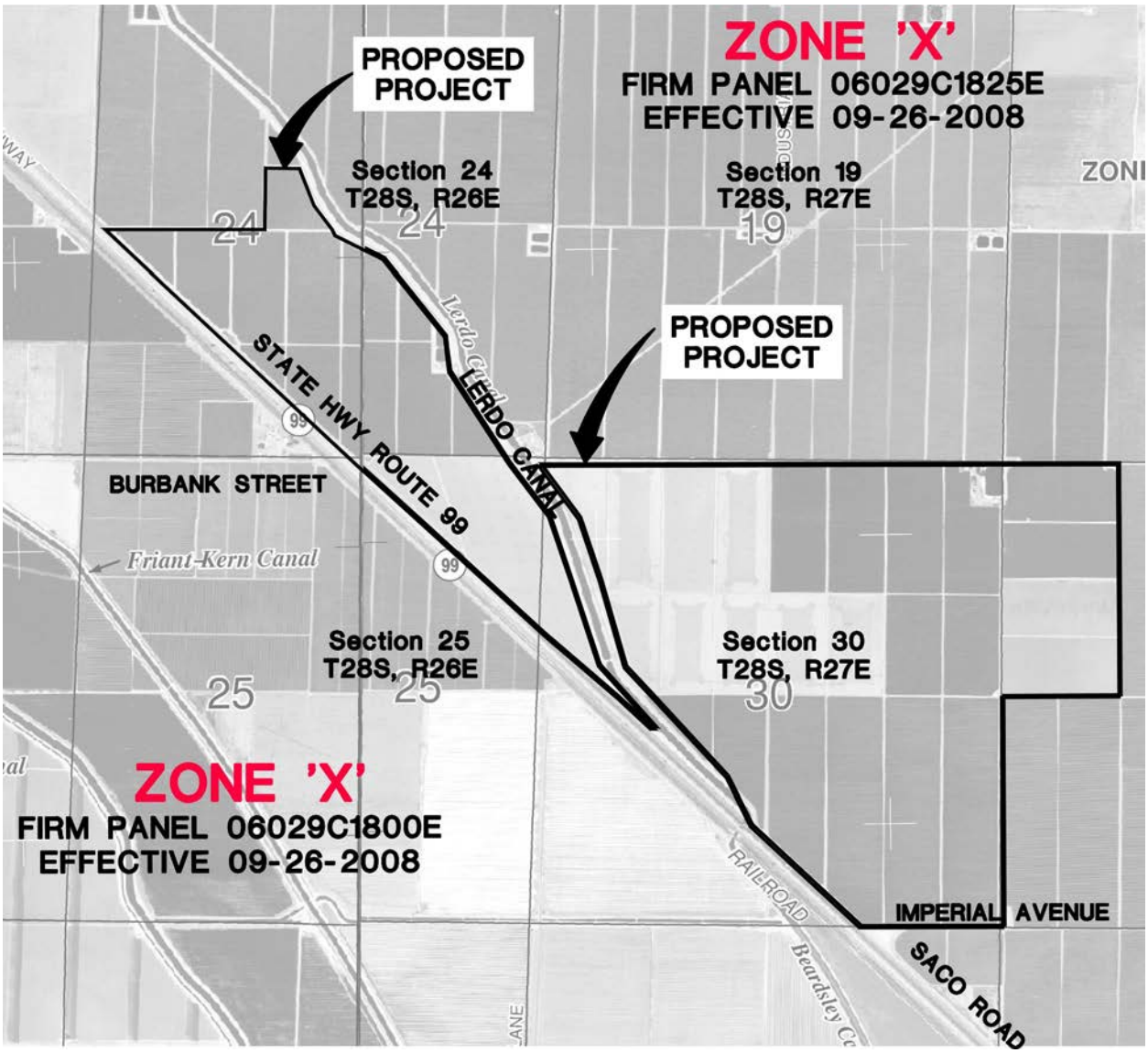
OILDALE QUADRANGLE
CALIFORNIA - KERN COUNTY
7.5-MINUTE SERIES

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

United States Geological Survey Topographic Quadrangle Map

Figure C-1



Explanation of Zone Designation:

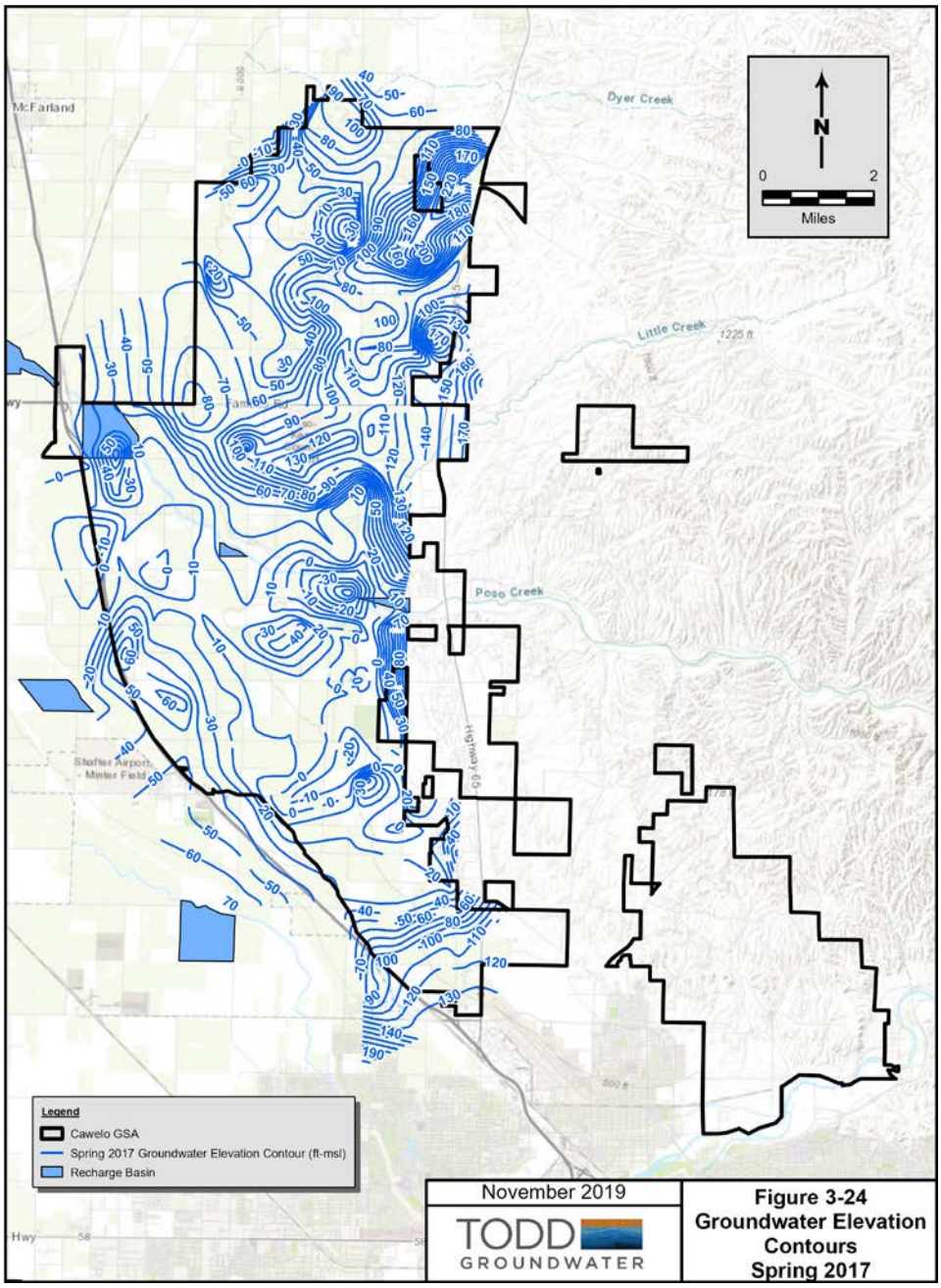
ZONE ' X' - Areas Determined To Be Outside The 0.2% Annual Chance Flood plane

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Flood Insurance Rate Map (FIRM)

Figure C-2



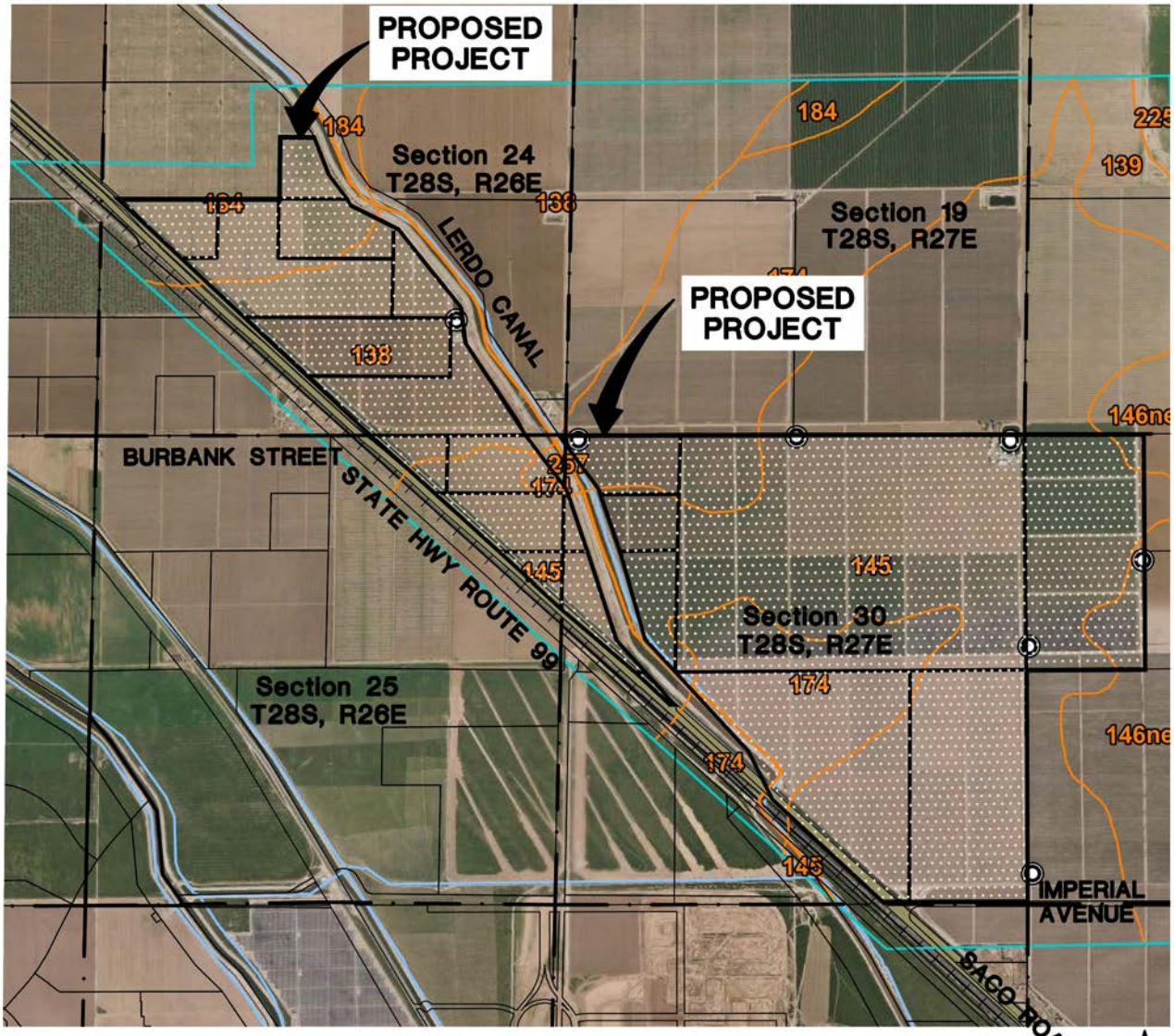
Source: Cawelo GSA Groundwater Sustainability Plan -Draft Final
Dated: December 16, 2019

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Depth of Ground Water Map

Figure C-3



Kern County, California, Southwest Part (CA666)

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

USDA Soils Survey Map

Figure C-4

APPENDIX D

Figures

TABLE A-10

Kern County 2016 – 2018 Land Use Conversion Table

Land Use Conversion Table

Figure D-1

TABLE A-11
KERN COUNTY
2016-2018 Land Use Conversion

CALIFORNIA DEPARTMENT OF CONSERVATION
Division of Land Resource Protection

Farmland Mapping and Monitoring Program

PART I
County Summary and Change by Land Use Category

LAND USE CATEGORY	TOTAL ACREAGE INVENTORIED		2016-18 ACREAGE CHANGES			
	2016	2018	ACRES LOST (-)	ACRES GAINED (+)	TOTAL ACREAGE CHANGED	NET ACREAGE CHANGED
Prime Farmland	579,297	573,935	7,017	1,655	8,672	-5,362
Farmland of Statewide Importance	209,484	208,323	3,566	2,405	5,971	-1,161
Unique Farmland	91,321	91,768	1,915	2,362	4,277	447
Farmland of Local Importance	0	0	0	0	0	0
IMPORTANT FARMLAND SUBTOTAL	880,102	874,026	12,498	6,422	18,920	-6,076
Grazing Land	1,849,267	1,854,641	6,346	11,720	18,066	5,374
AGRICULTURAL LAND SUBTOTAL	2,729,369	2,728,667	18,844	18,142	36,986	-702
Urban and Built-up Land	159,178	165,084	874	6,780	7,654	5,906
Other Land	2,325,915	2,321,526	7,240	2,851	10,091	-4,389
Water Area	9,853	9,038	819	4	823	-815
TOTAL AREA INVENTORIED	5,224,315	5,224,315	27,777	27,777	55,554	0

PART II
Land Committed to Nonagricultural Use

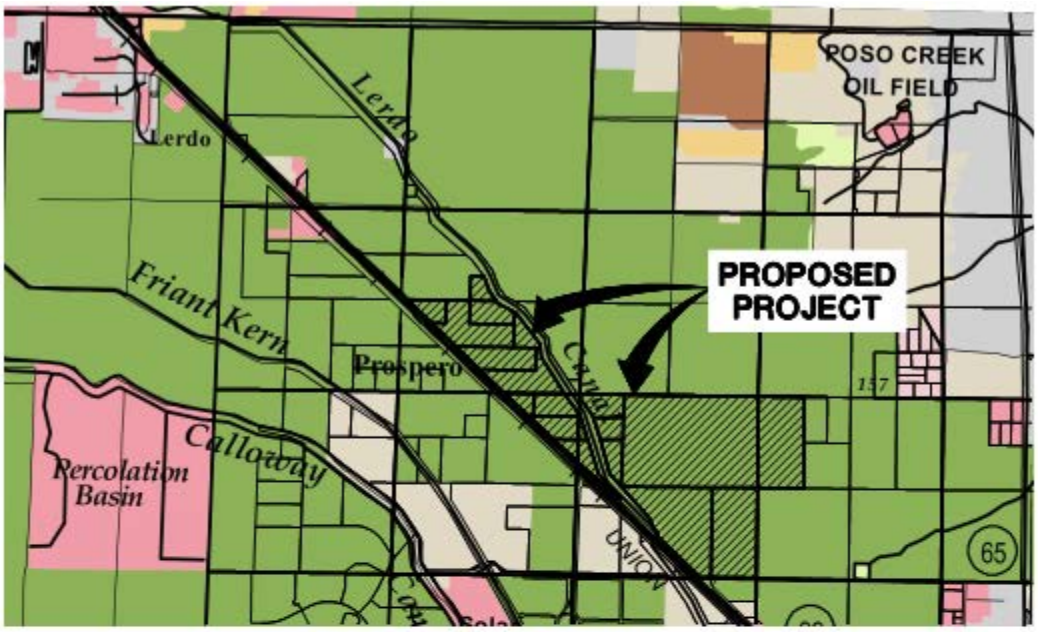
LAND USE CATEGORY	TOTAL ACREAGE 2018
Prime Farmland	DATA NOT AVAILABLE
Farmland of Statewide Importance	
Unique Farmland	
Farmland of Local Importance	
IMPORTANT FARMLAND SUBTOTAL	
Grazing Land	
AGRICULTURAL LAND SUBTOTAL	
Urban and Built-up Land	
Other Land	
Water Area	
TOTAL ACREAGE REPORTED	

PART III Land Use Conversion from 2016 to 2018

LAND USE CATEGORY		Prime Farmland	Farmland of Statewide Importance	Unique Farmland	Farmland of Local Importance	Subtotal Important Farmland	Grazing Land	Total Agricultural Land	Urban and Built-up Land	Other Land	Water Area	Total Converted To Another Use
Prime Farmland (1)	to:	--	0	14	0	14	5,765	5,779	725	513	0	7,017
Farmland of Statewide Importance (1) (2)	to:	0	--	78	0	78	3,318	3,396	50	120	0	3,566
Unique Farmland (1)	to:	1	0	--	0	1	1,834	1,835	20	59	1	1,915
Farmland of Local Importance	to:	0	0	0	--	0	0	0	0	0	0	0
IMPORTANT FARMLAND SUBTOTAL		1	0	92	0	93	10,917	11,010	795	692	1	12,498
Grazing Land (3)	to:	1,406	1,505	1,584	0	4,495	--	4,495	1,278	570	3	6,346
AGRICULTURAL LAND SUBTOTAL		1,407	1,505	1,676	0	4,588	10,917	15,505	2,073	1,262	4	18,844
Urban and Built-up Land (4)	to:	18	4	0	0	22	82	104	--	770	0	874
Other Land	to:	230	896	686	0	1,812	721	2,533	4,707	--	0	7,240
Water Area (5)	to:	0	0	0	0	0	0	0	0	819	--	819
TOTAL ACREAGE CONVERTED	to:	1,655	2,405	2,362	0	6,422	11,720	18,142	6,780	2,851	4	27,777

(1) Conversion to Grazing Land is primarily due to land left idle or land used for dryland grain production for three or more update cycles.
(2) Conversion to Unique Farmland is due to the identification of a potted plant nursery.
(3) Conversion to Irrigated farmland is primarily due to the addition of irrigated orchards, vineyards, row crops, nurseries, alfalfa, and irrigated pasture.
(4) Conversion from Urban and Built-up Land is primarily due to a lack of sufficient infrastructure and the use of detailed digital imagery to delineate more distinct urban boundaries.
(5) Water related conversions were primarily due to boundary improvements to Lake Isabella and Lake Woollomes.

KERN COUNTY



California Important Farmland: Most Recent

Most Recent

- Prime Farmland
- Farmland of Statewide Importance
- Unique Farmland
- Grazing Land
- Farmland of Local Importance
- Farmland of Local Potential
- Other Land
- Confined Animal Agriculture
- Nonagricultural or Natural Vegetation
- Vacant or Disturbed Land
- Rural Residential Land
- Semi-agricultural and Rural Commercial Land
- Urban and Built-Up Land
- Water Area
- Irrigated Farmland
- Nonirrigated Farmland

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Kern County Important Farmlands

Figure D-2



PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Kern County Important Farmlands Legend 2018

Figure D-3

APPENDIX E

Figures

KERN COUNTY 2013 CROP REPORT SUMMARY

COMMODITY	YEAR	HARVESTED ACRES	RANGE	TOTAL VALUE
Fruit & Nut Crops	2013	422,146	---	$ 4,133,389,000
	*2012	411,579,	---	$ 3.790.085.000
Field Crops & Rangeland	2013	339,746	1,488,000	522,365,000
	*2012	381,856	1,479,000	539,374,000
Vegetable Crops	2013	73,500	---	686,789,000
	2012	79,348	---	714,149,000
Nursery Crops	2013	2,087	---	111,270,590
	2012	3,008	---	100,824,100
Industrial & Wood Crops	2013	---	---	14,176,000
	2012	---	---	15,717,000
Seed Crops	2013	1,550	---	5,305,000
	2012	12,590	---	7,742,000
Livestock & Poultry	2013	---	---	418,926,000
	2012	---	---	395,078,000
Livestock & Poultry Products	2013	---	---	819,880,000
	2012	---	---	732,385,000
Apiary Products	2013	---	---	57,755,000
	2012	---	---	56,707,000
Totals	2013	839,079	1,488,000	**$ 6,769,855,590**
	*2012	878,381	1,479,000	**$ 6,351,061,100**
Total Value without Timber	2013		,	$ 6,769,668,590
	*2012			$ 6,351,686,100

*revised

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)



KERN COUNTY
2013 CROP REPORT

TOP 20 CROPS

COMMODITY	VALUE	2012 RANKING
1. Grapes, All	$ 1,822,092,000	1
2. Almonds, Including By-Products	970,808,000	2
3. Milk, Market & Manufacturing	764,728,000	3
4. Citrus, Fresh & Processing	641,691,000	*5
5. Cattle & Calves	408,897,000	6
6. Pistachios	388,189,000	*4
7. Carrots, Fresh & Processing	335,088,000	7
8. Hay, Alfalfa	217,964,000	8
9. Cotton, Including Processed Cottonseed	146,537,000	9
10. Potatoes, Fresh & Processing	109,222,000	10
11. Pomegranates, Fresh & Processing	88,474,000	12
12. Cherries	80,228,000	22
13. Silage & Forage	68,521,000	11
14. Bell Peppers, Fresh & Processing	59,659,000	17
15. Apiary Products	57,755,000	14
16. Nursery, Fruit and Nut Trees & Vines	56,056,000	13
17. Tomatoes, Fresh & Processing	55,115,000	15
18. Egg & Egg Product	52,055,000	16
19. Nursery, Roses	45,353,000	19
20. Onions, Fresh & Dehydrator	35,156,000	20

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)

Fruit & Nut Crops 2013

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRES	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Almonds	2013	147,000	1.14	a/168,000	Ton	$ 5,490.00	$ 922,672,000
	2012	144,000	1.13	a/163,000	Ton	$ 4,770.00	$ 777,306,000
Almond	2013	---	---	325,000	Ton	148.00	48,136,000
By-Products	2012	---	---	301,000	Ton	148.00	44,551,000
Apricots	2013	---	---	---	Ton	---	---
	2012	---	---	---	Ton	---	---
Blueberries	2013	635	6.72	4,270	Ton	4,520.00	19,290,000
	2012	642	6.15	3,950	Ton	4,090.00	16,144,000
Cherries	2013	5,540	3.09	17,100	Ton	4,690.00	80,228,000
	2012	5,110	0.90	4,580	Ton	5,380.00	24,654,000
Citrus, All	2013	55,017	15.23	837,900	Ton	---	641,691,000
	2012	53,747	17.17	922,700	Ton	---	620,350,000
Grapefruit	2013	827	18.14	15,000	Ton	703.00	10,546,000
	2012	827	18.74	15,500	Ton	765.00	11,857,000
Lemons	2013	3,170	14.79	46,900	Ton	902.00	42,305,000
	2012	3,150	11.56	36,400	Ton	999.00	36,358,000
Oranges,	2013	28,800	11.18	322,000	Ton	679.00	218,777,000
Navels	2012	29,000	13.62	395,000	Ton	713.00	281,834,000
Oranges,	2013	6,520	15.95	104,000	Ton	644.00	67,019,000
Valencia	2012	6,670	14.36	95,800	Ton	675.00	64,697,000
Tangerine	2013	15,700	11.21	176,000	Ton	1,600.00	281,286,000
& Tangelo	2012	14,100	8.30	117,000	Ton	1,660.00	194,200,000
Processing,	2013	---	---	174,000	Ton	125.00	21,758,000
All Citrus	2012	---	---	263,000	Ton	119.00	31,404,000
Grapes, All	2013	105,000	12.87	1,351,300	Ton	---	1,822,092,000
	2012	101,800	11.26	1,146,070	Ton	---	1,498,987,000
Raisin	b/2013	19,200	13.00	249,600	Ton	---	252,947,000
Variety	b/2012	19,800	9.98	197,570	Ton	---	196,567,000
Fresh	2013	---	---	124,900	Ton	1,700.00	212,404,000
Market	2012	---	---	109,900	Ton	1,480.00	162,443,000
Raisins	c/2013	---	---	13,400	Ton	1,650.00	22,047,000
	c/2012	---	---	12,000	Ton	1,900.00	22,831,000
Processing	2013	---	---	11,600	Ton	397.00	4,606,000
	2012	---	---	4,970	Ton	362.00	1,797,000
Crushed	2013	---	---	51,500	Ton	270.00	13,890,000
	2012	---	---	30,100	Ton	315.00	9,496,000
Table	2013	58,600	13.61	797,700	Ton	---	$ 1,445,006,000
Variety	2012	54,600	12.17	664,500	Ton	---	$ 1,184,388,000
Fresh	2013	---	---	719,000	Ton	$ 1,990.00	1,427,237,000
Market	2012	---	---	605,000	Ton	$ 1,930.00	1,168,654,000
Crushed	2013	---	---	78,700	Ton	226.00	17,769,000
	2012	---	---	59,500	Ton	264.00	15,734,000
Wine	2013	27,200	11.18	304,000	Ton	---	124,139,000
Variety	2012	27,400	10.36	284,000	Ton	---	118,032,000
Crushed	2013	---	---	304,000	Ton	408.00	124,139,000
	2012	---	---	284,000	Ton	416.00	118,032,000
Nectarines	2013	424	8.28	3,510	Ton	1,980.00	6,958,000
	*2012	505	6.44	3,250	Ton	1,810.00	5,891,000
Olives	2013	---	---	---	Ton	---	---
	2012	---	---	---	Ton	---	---

Fruit & Nut Crops 2013

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRES	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Peaches	2013	1,110	12.97	14,400	Ton	1,130.00	16,227,000
	2012	1,130	14.87	16,800	Ton	1,100.00	18,443,000
Pistachios	2013	76,000	1.23	d/93,300	Ton	4,160.00	388,189,000
	*2012	72,500	1.66	d/120,000	Ton	5,240.00	628,226,000
Tomatoes,	2013	1,310	15.05	19,720	Ton	724.00	14,274,000
Fresh	2012	470	15.37	7,230	Ton	460.00	3,329,000
Tomatoes,	2013	12,000	46.50	558,000	Ton	73.20	40,841,000
Processed	2012	12,000	55.92	671,000	Ton	75.00	50,328,000
Walnuts	2013	710	1.03	d/730	Ton	4,710.00	3,437,000
	2012	775	1.25	d/970	Ton	2,720.00	2,638,000
Miscellaneous	e/2013	17,400	---	222,000	Ton	---	129,354,000
	f/2012	18,900	---	198,000	Ton	---	99,238,000
Totals	2013	422,146	---	3,615,230	Ton	---	$ 4,133,389,000
	*2012	411,579	---	3,558,550	Ton	---	$ 3,790,085,000

*Revised
a/ Almond production stated in terms of Nut Meat Equivalents. b/ Total production includes raisins on a Fresh Equivalent basis.
c/ A combined value reflecting free tonnage and reserve tonnage: Dry Ratio: 2013 - 4.60 to 1 2012 - 4.38 to 1
d/ Pistachio and Walnut production stated in terms of In-Shell Equivalents.
e/Includes: Apple (Fresh & Processed), Apricots, Avocado, Blackberry, Blueberry (Processed), Boysenberry, Cashew, Chestnut, Fig (Fresh & Dry), Jujube, Kiwi, Kumquat, Lime, Olive, Peach (Processed), Pear, Pecan, Persimmon, Plum, Plumcot, Pluot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, and Quince,
f/ Includes: Apple (Fresh & Processed), Apricots, Avocado, Blackberry, Boysenberry, Fig (Fresh & Dry), Jujube, Kiwi, Lime, Olive, Peach (Processed), Pear, Pecan, Persimmon, Plum, Plumcot, Pluot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, and Quince.

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)

KERN COUNTY 2014 CROP REPORT SUMMARY

COMMODITY	YEAR	HARVESTED ACRES	RANGE	TOTAL VALUE
Fruit & Nut Crops	2014	510,308	---	$ 4,769,213,000
	2013	422,146	---	$ 4,133,389,000
Field Crops & Rangeland	2014	298,843	1,450,000	507,302,000
	2013	339,746	1,488,000	522,365,000
Vegetable Crops	2014	66,450	---	648,857,000
	2013	73,550	---	686,789,000
Nursery Crops	2014	3,356	---	93,719,690
	2013	2,087	---	111,270,590
Industrial & Wood Crops	2014	---	---	18,498,000
	2013	---	---	14,176,000
Seed Crops	2014	1,500	---	6,591,000
	2013	1,550	---	5,305,000
Livestock & Poultry	2014	---	---	443,650,000
	2013	---	---	418,926,000
Livestock & Poultry Products	2014	---	---	980,756,000
	2013	---	---	819,880,000
Apiary Products	2014	---	---	83,737,000
	2013	---	---	57,755,000
Totals	2014	880,457	1,450,000	$ 7,552,323,690
	2013	839,079	1,488,000	$ 6,769,855,590
Total Value without Timber	2014			$ 7,552,156,690
	2013			$ 6,769,668,590

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)



KERN COUNTY
2014 CROP REPORT

TOP 20 CROPS

COMMODITY	VALUE	2013 RANKING
1. Grapes, All	$ 1,718,183,000	1
2. Almonds, Including By-Products	1,488,182,000	2
3. Milk, Market & Manufacturing	915,124,000	3
4. Citrus, Fresh & Processing	892,874,000	4
5. Cattle & Calves	428,854,000	5
6. Pistachios	401,049,000	6
7. Carrots, Fresh & Processing	288,063,000	7
8. Hay, Alfalfa	227,973,000	8
9. Cotton, Including Processed Cottonseed	117,568,000	9
10. Pomegranates, Fresh & Processing	87,313,000	11
11. Potatoes, Fresh & Processing	84,751,000	10
12. Apiary Products	83,737,000	15
13. Tomatoes, Fresh & Processing	81,768,000	17
14. Silage & Forage	81,334,000	13
15. Bell Peppers, Fresh & Processing	77,495,000	14
16. Eggs & Egg Product	62,689,000	18
17. Nursery, Fruit and Nut Trees & Vines	52,390,000	16
18. Onions, Fresh & Dehydrator	42,966,000	20
19. Nursery, Roses	35,391,000	19
20. Garlic, Fresh & Processing	34,447,000	23

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)

Fruit & Nut Crops 2014

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Almond	2014	199,000	1.01	a/201,000	Ton	$ 7,120.00	$ 1,432,099,000
	2013	147,000	1.14	a/168,000	Ton	$ 5,490.00	$ 922,672,000
Almond By-Products	2014	---	---	329,000	Ton	170.00	56,083,000
	2013	---	---	325,000	Ton	148.00	48,136,000
Apricots	2014	---	---	---	Ton	---	---
	2013	---	---	---	Ton	---	---
Blueberries	2014	608	7.37	4,480	Ton	5,300.00	23,757,000
	2013	635	6.72	4,270	Ton	4,520.00	19,290,000
Cherries	2014	5,180	0.83	4,300	Ton	6,840.00	29,419,000
	2013	5,540	3.09	17,100	Ton	4,690.00	80,228,000
Citrus, All	2014	64,234	14.79	949,800	Ton	---	892,874,000
	2013	55,017	15.23	837,900	Ton	---	641,691,000
Grapefruit	2014	864	15.39	13,300	Ton	706.00	9,388,000
	2013	827	18.14	15,000	Ton	703.00	10,546,000
Lemons	2014	3,290	10.49	34,500	Ton	1,270.00	43,873,000
	2013	3,170	14.79	46,900	Ton	902.00	42,305,000
Oranges, Navels	2014	31,400	10.25	322,000	Ton	942.00	303,378,000
	2013	28,800	11.18	322,000	Ton	679.00	218,777,000
Oranges, Valencia	2014	5,680	13.38	76,000	Ton	783.00	59,484,000
	2013	6,520	15.95	104,000	Ton	644.00	67,019,000
Tangerine4 & Tangelo	2014	23,000	10.48	241,000	Ton	1,800.00	441,821,000
	2013	15,700	11.21	176,000	Ton	1,600.00	281,286,000
Processing, All Citrus	2014	---	---	263,000	Ton	133.00	34,930,000
	2013	---	---	174,000	Ton	125.00	21,758,000
Grapes, All	2014	106,200	12.26	1,302,300	Ton	---	1,718,183,000
	2013	105,000	12.87	1,351,300	Ton	---	1,822,092,000
Raisin Variety	b/2014	16,800	14.16	237,900	Ton	---	128,559,000
	b/2013	19,200	13.00	249,600	Ton	---	252,947,000
Fresh Market	2014	---	---	64,400	Ton	1,030.00	66,251,000
	2013	---	---	124,900	Ton	1,700.00	212,404,000
Raisins	c/2014	---	---	29,900	Ton	1,770.00	53,047,000
	c/2013	---	---	13,400	Ton	1,650.00	22,047,000
Processing	2014	---	---	6,300	Ton	435.00	2,741,000
	2013	---	---	11,600	Ton	397.00	4,606,000
Crushed	2014	---	---	34,400	Ton	190.00	6,520,000
	2013	---	---	51,500	Ton	270.00	13,890,000
Table	2014	61,600	12.85	791,400	Ton	---	$ 1,503,844,000

Fruit & Nut Crops 2014

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Variety	2013	58,600	13.61	797,700	Ton	---	$ 1,445,006,000
Fresh	2014	---	---	721,000	Ton	$ 2,070.00	1,490,053,000
Market	2013	---	---	719,000	Ton	$ 1,990.00	1,427,237,000
Crushed	2014	---	---	70,400	Ton	196.00	13,791,000
	2013	---	---	78,700	Ton	226.00	17,769,000
Wine	2014	27,800	9.82	273,000	Ton	---	85,780,000
Variety	2013	27,200	11.18	304,000	Ton	---	124,139,000
Crushed	2014	---	---	273,000	Ton	314.00	85,780,000
	2013	---	---	304,000	Ton	408.00	124,139,000
Nectarines	2014	295	9.76	2,880	Ton	1,300.00	3,750,000
	2013	424	8.28	3,510	Ton	1,980.00	6,958,000
Peaches	2014	---	---	---	Ton	---	---
	2013	1,110	12.97	14,400	Ton	1,130.00	16,227,000
Pistachios	2014	102,900	0.78	d/79,900	Ton	5,020.00	401,049,000
	2013	76,000	1.23	d/93,300	Ton	4,160.00	388,189,000
Plums	2014	57	9.30	530	Ton	1,220.00	645,000
	2013	---	---	---	Ton	---	---
Tomatoes,	2014	840	19.17	16,100	Ton	965.00	15,534,000
Fresh	2013	1,310	15.05	19,720	Ton	724.00	14,274,000
Tomatoes,	2014	14,000	52.86	740,000	Ton	89.50	66,234,000
Processed	2013	12,000	46.50	558,000	Ton	73.20	40,841,000
Walnuts	2014	794	1.47	d/1,170	Ton	3,390.00	3,964,000
	2013	710	1.03	d/730	Ton	4,710.00	3,437,000
Miscellaneous	e/2014	16,200	---	95,000	Ton	---	125,622,000
	f/2013	17,400	---	222,000	Ton	---	129,354,000
Totals	**2014**	**510,308**	**---**	**3,726,460**	**Ton**	**---**	**$ 4,769,213,000**
	2013	**422,146**	**---**	**3,615,230**	**Ton**	**---**	**$ 4,133,389,000**

a/ Almond production stated in terms of Nut Meat Equivalents.

b/ Total production includes raisins on a Fresh Equivalent basis.

c/ A combined value reflecting free tonnage and reserve tonnage: Dry Ratio: 2014 - 4.44 to 1 2013 - 4.60 to 1

d/ Pistachio and Walnut production stated in terms of In-Shell Equivalents.

e/Includes: Apple (Fresh & Processed), Apricots, Avocado, Blackberry, Blueberry (Processed), Boysenberry, Fig (Fresh & Dry), Jujube, Kiwi, Kumquat, Lime, Olive, Peach (Fresh & Processed), Pear, Pecan, Persimmon, Plumcot, Pluot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, and Quince,

f/ Includes: Apple (Fresh & Processed), Apricots, Avocado, Blackberry, Blueberry (Processed), Boysenberry, Cashew, Chestnut, Fig (Fresh & Dry), Jujube, Kiwi, Ku,quat, Lime, Olive, Peach (Processed), Pear, Pecan, Persimmon, Plum, Plumcot, Pluot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, and Quince.

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)

KERN COUNTY 2015 CROP REPORT SUMMARY

COMMODITY	YEAR	HARVESTED	RANGE	TOTAL VALUE
Fruit & Nut Crops	2015	525,398	---	$ 4,670,622,000
	2014	510,308	---	$ 4,769,213,000
Field Crops &	2015	286,010	1,449,000	340,618,000
	2014	298,843	1,450,000	507,302,000
Vegetable Crops	2015	66,170	---	654,165,000
	2014	66,450	---	648,857,000
Nursery Crops	2015	2,087	---	83,264,690
	2014	3,356	---	93,719,690
Industrial & Wood	2015	---	---	12,838,000
	2014	---	---	18,498,000
Seed Crops	2015	1,390	---	11,251,000
	2014	1,500	---	6,591,000
Livestock & Poultry	2015	---	---	370,376,000
	2014	---	---	443,650,000
Livestock & Poultry	2015	---	---	652,917,000
	2014	---	---	980,756,000
Apiary Products	2015	---	---	82,772,000
	2014	---	---	83,737,000
Totals	2015	881,055	1,449,000	$ 6,878,823,690
	2014	880,457	1,450,000	$ 7,552,323,690
Total Value without	2015			$ 6,878,660,690
	2014			$ 7,552,156,690

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)



KERN COUNTY
2015 CROP REPORT

TOP 20 CROPS

	COMMODITY	VALUE	2014 RANKING
1.	Grapes, All	$ 1,643,103,000	1
2.	Almonds, Including By-Products	1,487,789,000	2
3.	Citrus, Fresh & Processing	927,694,000	4
4.	Milk, Market & Manufacturing	594,816,000	3
5.	Cattle & Calves	355,789,000	5
6.	Carrots, Fresh & Process	299,398,000	7
7.	Pistachios	245,174,000	6
8.	Pomegranates, Fresh & Process	190,935,000	10
9.	Hay, Alfalfa	133,685,000	8
10.	Silage & Forage	84,773,000	14
11.	Apiary Products	82,772,000	12
12.	Potatoes, Fresh & Processing	81,716,000	11
13.	Tomatoes, Fresh & Processing	62,106,000	13
14.	Nursery, Fruit and Nut Trees & Vines	52,746,000	17
15.	Eggs & Egg Product	52,498,000	16
16.	Onions, Fresh & Dehydrator	51,043,000	18
17.	Cotton, Including Processed Cottonseed	50,578,000	9
18.	Bell Peppers, Fresh & Processing	42,855,000	15
19.	Cherries	42,368,000	21
20.	Garlic, Fresh & Processing	39,569,000	20

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)

Fruit & Nut Crops 2015

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Almonds		210,000	0.94	a/197,000	Ton	$ 7,380.00	$ 1,453,855,000
	2014	199,000	1.01	a/201,000	Ton	$ 7,120.00	$ 1,432,099,000
Almond	2015	---	---	300,000	Ton	113.00	33,934,000
By-Products	2014	---	---	329,000	Ton	170.00	56,083,000
Apricots	2015	192	6.82	1,310	Ton	1,910	2,496,000
	2014	---	---	---	Ton	---	---
Blueberries	2015	669	4.11	2,750	Ton	6,310.00	17,354,000
	2014	608	7.37	4,480	Ton	5,300.00	23,757,000
Cherries	2015	5,290	1.70	8,990	Ton	4,710.00	42,368,000
	2014	5,180	0.83	4,300	Ton	6,840.00	29,419,000
Citrus, All	2015	65,217	17.08	1,113,900	Ton	---	927,694,000
	2014	64,234	14.79	949,800	Ton	---	892,874,000
Grapefruit	2015	927	16.18	15,000	Ton	794.00	11,913,000
	2014	864	15.39	13,300	Ton	706.00	9,388,000
Lemons	2015	3,290	16.69	54,900	Ton	1,280.00	70,455,000
	2014	3,290	10.49	34,500	Ton	1,270.00	43,873,000
Oranges,	2015	31,000	12.61	391,000	Ton	776.00	303,162,000
Navels	2014	31,400	10.25	322,000	Ton	942.00	303,378,000
Oranges,	2015	5,300	16.23	86,000	Ton	749.00	64,397,000
Valencia	2014	5,680	13.38	76,000	Ton	783.00	59,484,000
Tangerine	2015	24,700	11.13	275,000	Ton	1,600.00	441,289,000
& Tangelo	2014	23,000	10.48	241,000	Ton	1,800.00	441,821,000
Processing,	2015	---	---	292,000	Ton	125.00	36,478,000
All Citrus	2014	---	---	263,000	Ton	133.00	34,930,000
Grapes, All	2015	106,200	11.36	1,205,910	Ton	---	1,643,103,000
	2014	106,200	12.26	1,302,300	Ton	---	1,718,183,000
Raisin	b/2015	15,200	15.84	240,810	Ton	---	118,859,000
Variety	b/2014	16,800	14.16	237,900	Ton	---	128,559,000
Fresh	2015	---	---	25,800	Ton	1,700.00	43,786,000
Market	2014	---	---	64,400	Ton	1,030.00	66,251,000
Raisins	c/2015	---	---	43,000	Ton	1,600.00	68,763,000
	c/2014	---	---	29,900	Ton	1,770.00	53,047,000
Processing	2015	---	---	6,110	Ton	536.00	3,272,000
	2014	---	---	6,300	Ton	435.00	2,741,000
Crushed	2015	---	---	20,100	Ton	151.00	3,038,000
	2014	---	---	34,400	Ton	190.00	6,520,000
Table	2015	61,000	11.58	706,100	Ton	---	$ 1,445,700,000
Variety	2014	61,600	12.85	791,400	Ton	---	$ 1,503,844,000
Fresh	2015	---	---	654,000	Ton	$ 2,200.00	1,437,885,000
Market	2014	---	---	721,000	Ton	$ 2,070.00	1,490,053,000
Crushed	2015	---	---	52,100	Ton	150.00	7,815,000
	2014	---	---	70,400	Ton	196.00	13,791,000
Wine	2015	30,000	8.63	259,000	Ton	---	78,544,000
Variety	2014	27,800	9.82	273,000	Ton	---	85,780,000
Crushed	2015	---	---	259,000	Ton	303.00	78,544,000
	2014	---	---	273,000	Ton	314.00	85,780,000
Nectarines	2015	---	---	---	Ton	---	---
	2014	295	9.76	2,880	Ton	1,300.00	3,750,000
Pistachios	2015	108,300	0.36	d/39,300	Ton	6,240.00	245,174,000
	2014	102,900	0.78	d/79,900	Ton	5,020.00	401,049,000
Plums	2015	40	7.75	310	Ton	1,800.00	557,000
	2014	57	9.30	530	Ton	1,220.00	645,000

Fruit & Nut Crops 2015

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Tomatoes,	2015	760	15.92	12,100	Ton	752.00	9,094,000
Fresh	2014	840	19.17	16,100	Ton	965.00	15,534,000
Tomatoes,	2015	14,500	45.72	663,000	Ton	80.00	53,012,000
Processed	2014	14,000	52.86	740,000	Ton	89.50	66,234,000
Walnuts	2015	1,330	2.08	d/2,760	Ton	2,440.00	6,723,000
	2014	794	1.47	d/1,170	Ton	3,390.00	3,964,000
Miscellaneous	e/2015	12,900	---	158,000	Ton	---	235,258,000
	f/2014	16,200	---	95,000	Ton	---	125,622,000
Totals	**2015**	**525,398**	**---**	**3,705,330**	**Ton**	**---**	**$ 4,670,662,000**
	2014	**510,308**	**---**	**3,726,460**	**Ton**	**---**	**$ 4,769,213,000**

Note: Organic commodities included/ Almond production stated in terms of Nut Meat Equivalents.
b/ Total production includes raisins on a Fresh Equivalent basis.
c/ A combined value reflecting free tonnage and reserve tonnage: Dry Ratio: 2015 - 4.39 to 1 2014 - 4.44 to 1
d/ Pistachio and Walnut production stated in terms of In-Shell Equivalents.
e/Includes: Apple (Fresh & Processed), Apricot (Processed) Avocado, Blackberry, Blueberry (Processed), Boysenberry, Cherry (Processed), Fig (Fresh & Dry), Jujube, Kiwi, Kumquat, Lime, Nectarines, Olive, Peach (Fresh & Processed), Pear, Pecan, Persimmon, Pomegranate (Fresh & Juice), Raspberry, Strawberry, and Quince,
f/ Includes: Apple (Fresh & Processed), Apricots, Avocado, Blackberry, Blueberry (Processed), Boysenberry, Fig (Fresh & Dry), Jujube, Kiwi, Kumquat, Lime, Olive, Peach (Fresh & Processed), Pear, Pecan, Persimmon, Plumcot, Pluot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, and Quince.

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)

KERN COUNTY 2016 CROP REPORT SUMMARY

COMMODITY	YEAR	HARVESTED ACRES	RANGE	TOTAL
Fruit & Nut Crops	2016	530,238	---	$ 4,900,990,000
	*2015	525,398	---	$ 4,593,866,000
Field Crops & Rangeland	2016	271,303	1,444,000	304,712,000
	2015	286,010	1,449,000	340,618,000
Vegetable Crops	2016	81,578	---	836,670,000
	2015	66,170	---	654,165,000
Nursery Crops	2016	1,688	---	102,317,890
	2015	2,087	---	83,264,690
Industrial & Wood Crops	2016	---	---	9,045,000
	2015	---	---	12,838,000
Seed Crops	2016	1,150	---	9,410,450
	2015	1,390	---	11,251,000
Livestock & Poultry	2016	---	---	326,508,000
	2015	---	---	370,376,000
Livestock & Poultry Products	2016	---	---	609,513,000
	2015	---	---	652,917,000
Apiary Products	2016	---	---	88,778,000
	2015	---	---	82,772,000
Totals	2016	885,957	1,444,000	$ 7,187,944,340
	*2015	881,055	1,449,000	$ 6,802,067,690
Total Value without Timber	2016			$ 7,187,882,340
	*2015			$ 6,801,904,690

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)



KERN COUNTY
2016 CROP REPORT

TOP 20 CROPS

	COMMODITY	VALUE	2015 RANKING *revised
1.	Grapes, All	$ 1,659,431,000	1
2.	Almonds, Including By-Products	1,296,023,000	2
3.	Citrus, Fresh & Processing	824,530,000	3
4.	Pistachios	769,258,000	7
5.	Milk, Market & Manufacturing	579,714,000	4
6.	Carrots, Fresh & Process	438,976,000	6
7.	Cattle & Calves	308,924,000	5
8.	Potatoes, Fresh & Processing	109,811,000	12
9.	Cherries	105,794,000	19
10.	Pomegranates, Fresh & Processing	102,660,000	9
11.	Alfalfa	91,931,000	8
12.	Silage & Forage	91,704,000	10
13.	Apiary	88,778,000	11
14.	Nursery, Fruit and Nut Trees & Vines	72,709,000	14
15.	Tomato, Fresh & Processing	68,089,000	13
16.	Garlic, Fresh & Processing	63,637,000	20
17.	Cotton, Including Processed Cottonseed	61,389,000	17
18.	Bell Peppers, Fresh & Processing	41,076,000	18
19.	Onion, Fresh & Processing	34,901,000	16
20.	Blueberries	32,785,000	25

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com)

Fruit & Nut Crops 2016

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Almonds	**2016**	**217,000**	**1.19**	**a/259,000**	**Ton**	**$4,920.00**	**$1,275,520,000**
	2015	210,000	0.94	a/197,000	Ton	$7,380.00	$1,453,855,000
Almond	**2016**	**---**	**---**	**282,000**	**Ton**	**73.00**	**20,503,000**
By- Products	2015	---	---	300,000	Ton	113.00	33,934,000
Apples	**2016**	**1,030**	**1.81**	**1,860**	**Ton**	**900.00**	**1,674,000**
	2015	---	---	---	Ton	---	---
Apricots	**2016**	**210**	**9.76**	**2,050**	**Ton**	**1,090.00**	**2,242,000**
	2015	192	6.82	1,310	Ton	1,910.00	2,496,000
Blueberries	**2016**	**865**	**5.13**	**4,440**	**Ton**	**7,380.00**	**32,785,000**
	2015	669	4.11	2,750	Ton	6,310.00	17,354,000
Cherries	**2016**	**4,690**	**5.93**	**27,800**	**Ton**	**3,810.00**	**105,794,000**
	2015	5,290	1.70	8,990	Ton	4,710.00	42,368,000
Citrus, All	**2016**	**62,173**	**16.30**	**1,013,600**	**Ton**	**---**	**824,530,000**
	2015	65,217	17.08	1,113,900	Ton	---	927,694,000
Grapefruit	**2016**	**853**	**13.01**	**11,100**	**Ton**	**853.00**	**9,465,000**
	2015	927	16.18	15,000	Ton	794.00	11,913,000
Lemons	**2016**	**3,740**	**14.73**	**55,100**	**Ton**	**1,330.00**	**73,162,000**
	2015	3,290	16.69	54,900	Ton	1,280.00	70,455,000
Oranges,	**2016**	**30,300**	**13.76**	**417,000**	**Ton**	**725.00**	**301,896,000**
Navels	2015	31,000	12.61	391,000	Ton	776.00	303,162,000
Oranges,	**2016**	**5,380**	**14.20**	**76,400**	**Ton**	**702.00**	**53,634,000**
Valencia	2015	5,300	16.23	86,000	Ton	749.00	64,397,000
Tangerine &	**2016**	**21,900**	**9.95**	**218,000**	**Ton**	**1,580.00**	**345,454,000**
Tangelo	2015	24,700	11.13	275,000	Ton	1,600.00	441,289,000
Processing,	**2016**	**---**	**---**	**236,000**	**Ton**	**173.00**	**40,919,000**
All Citrus	2015	---	---	292,000	Ton	125.00	36,478,000
Grapes, All	**2016**	**106,900**	**11.18**	**1,194,790**	**Ton**	**---**	**1,659,431,000**
	2015	106,200	11.36	1,205,910	Ton	---	1,643,103,000
Raisin Variety	**b/2016**	**13,400**	**15.70**	**210,390**	**Ton**	**---**	**68,171,000**
	b/2015	15,200	15.84	240,810	Ton	---	118,859,000
Fresh Market	**2016**	**---**	**---**	**10,900**	**Ton**	**1,490.00**	**16,287,000**
	2015	---	---	25,800	Ton	1,700.00	43,786,000
Raisins	**c/2016**	**---**	**---**	**41,800**	**Ton**	**1,100.00**	**46,012,000**
	c/2015	---	---	43,000	Ton	1,600.00	68,763,000
Processing	**2016**	**---**	**---**	**5,190**	**Ton**	**568.00**	**2,950,000**
	2015	---	---	6,110	Ton	536.00	3,272,000
Crushed	**2016**	**---**	**---**	**15,400**	**Ton**	**$ 190.00**	**$2,922,000**
	2015	---	---	20,100	Ton	$ 151.00	$3,038,000
Table Variety	**2016**	**63,800**	**11.78**	**751,400**	**Ton**	**---**	**1,521,701,000**
	2015	61,000	11.58	706,100	Ton	---	1,445,700,000
Fresh Market	**2016**	**---**	**---**	**676,000**	**Ton**	**2,230.00**	**1,510,387,000**
	2015	---	---	654,000	Ton	2,200.00	1,437,885,000
Crushed	**2016**	**---**	**---**	**75,400**	**Ton**	**150.00**	**11,314,000**
	2015	---	---	52,100	Ton	150.00	7,815,000

Fruit & Nut Crops 2016

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Wine Variety	**2016**	**29,700**	**7.85**	**233,000**	**Ton**	**---**	**69,559,000**
	2015	30,000	8.63	259,000	Ton	---	78,544,000
Crushed	**2016**	**---**	**---**	**233,000**	**Ton**	**299.00**	**69,559,000**
	2015	---	---	259,000	Ton	303.00	78,544,000
Pistachios	**2016**	**110,000**	**1.62**	**d/178,200**	**Ton**	**4,320.00**	**769,258,000**
	2015	108,300	0.36	d/39,300	Ton	6,240.00	245,174,000
Plums	**2016**	**---**	**---**	**---**	**Acre**	**---**	**---**
	2015	40	7.75	310	Acre	1,800.00	557,000
Tomatoes,	**2016**	**---**	**---**	**---**	**Acre**	**---**	**---**
Fresh	2015	760	15.92	12,100	Acre	752.00	9,094,000
Tomatoes,	**2016**	**13,900**	**46.40**	**645,000**	**Acre**	**72.50**	**46,760,000**
Processed	2015	14,500	45.72	663,000	Acre	80.00	53,012,000
Walnuts	**2016**	**1,070**	**1.50**	**d/1,600**	**Ton**	**2,030.00**	**3,249,000**
	2015	1,330	2.08	d/2,760	Ton	2,440.00	6,723,000
Miscellaneous	**e/2016**	**12,400**	**---**	**181,000**	**Ton**	**---**	**159,244,000**
	*f/2015	12,900	---	166,000	Ton	---	158,502,000
Totals	**2016**	**530,238**	**---**	**3,791,340**	**Ton**	**---**	**$ 4,900,990,000**
	*2015	525,398	---	3,713,330	Ton	---	$ 4,593,866,000

*revised
Note: Organic commodities included
a/ Almond production stated in terms of Nut Meat Equivalents.
b/ Total production includes raisins on a Fresh Equivalent basis.
c/ A combined value reflecting free tonnage and reserve tonnage: Dry Ratio: 2016-4.28 to 1 015-4.39 to 1
d/ Pistachio and Walnut production stated in terms of In-Shell Equivalents.
e/ Includeds: Apricot (Processed), Avocado, Blackberry, Cactus Pear, Cherry (Processed), Chestnut, Fig (Fresh& Dry), Jujube, Kiwi, Kumquat, Lime, Nectarines, Olive (Fresh & Processed), Peach (Fresh & Processed), Pear, Pecan, Persimmon, Plum, Plumcot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, Tomato (Fresh) and Quince.
f/ Includes: Apple (Fresh & Processed), Apricots, Avocado, Blackberry, Blueberry (Processed), Boysenberry, Cherry (Processed), Fig (Fresh & Dry), Jujube, Kiwi, Kumquat, Lime, Nectarine, Olive, Peach (Fresh & Processed), Pear, Pecan, Persimmon, Pomegranate (Fresh & Juice), Raspberry, Strawberry and Quince.

(Information provided by the Kern County Department of Agriculture and Measurement Standards website: www.kernag.com

KERN COUNTY 2017 CROP REPORT SUMMARY

COMMODITY	YEAR	HARVESTED ACRES	RANGE	TOTAL
Fruit & Nut Crops	2017	546,290		$ 4,802,164,000
	2016	530,238		$ 4,900,990,000
Field Crops & Rangeland	2017	248,021	1,446,000	303,075,000
	2016	271,303	1,444,000	304,712,000
Vegetable Crops	2017	86,830		916,636,000
	2016	81,578		836,670,000
Nursery Crops	2017	2,230		113,705,000
	2016	1,688		102,317,890
Industrial & Wood Crops	2017			10,764,000
	2016			9,045 ,000
Seed Crops	2017	1,200		14,932,000
	2016	1,150		9,410,450
Livestock & Poultry	2017			332,978,000
	2016			326,508,000
Livestock & Poultry Products	2017			666,421,000
	2016			609,513,000
Apiary Products	2017			93,493,000
	2016			88,778,000
Totals	2017	884,571	1,446,000	$ 7,254,168,000
	2016	885,957	1,444,000	$ 7,187,944,340
Total Value without Timber	2017			$ 7,254,005,000
	2016			$ 7,187,882,340

(Information provided by the Kern County Department of Agriculture and Measurement Standards Website: www.kernag.com)



KERN COUNTY
2017 CROP REPORT

TOP 20 CROPS

	COMMODITY	VALUE	2016 RANKING
1.	Grapes, All	1,747,529,000	1
2.	Almonds, Including By-Products	1,261,738,000	2
3.	Citrus, Fresh & Processing	942,926,000	3
4.	Milk, Market & Manufacturing	618,845,000	5
5.	Pistachios	555,524,000	4
6.	Carrots, Fresh & Process	424,432,000	6
7.	Cattle & Calves	318,019,000	/
8.	Potatoes, Fresh & Processing	112,853,000	8
9.	Alfalfa	101,200,000	11
10.	Apiary	93,493,000	13
11.	Cherries	88,493,000	9
12.	Nursery, Fruit and Nut Trees & Vines	83,074,000	14
13.	Cotton, Including Processed Cottonseed	74,394,000	17
14.	Silage & Forage	70,505,000	12
15.	Tomato, Fresh & Processing	67,433,000	15
16.	Garlic, Fresh & Processing	63,051,000	16
17.	Onion, Fresh & Processing	60,902,000	19
18.	Pomegranates, Fresh & Processing	60,633,000	10
19.	Eggs & Egg Products	41,409,000	21
20.	Watermelon	40,587,000	23

(Information provided by the Kern County Department of Agriculture and Measurement Standards Website: www.kernag.com)

Fruit & Nut Crops 2017

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Almonds	2017	214,000	1.23	a/264,000	Ton	4,680.00	$1,234,724,000
	2016	217,000	1.19	a/259,000	Ton	4,920.00	$1,275,520,000
Almond	2017			341,000	Ton	79.00	27,014,000
By- Products	2016			282,000	Ton	73.00	20,503,000
Apples	2017				Ton		
	2016	1,030	1.81	1,860	Ton	900.00	1,674,000
Apricots	2017				Ton		
	2016	210	9.76	2,050	Ton	1,090.00	2,242,000
Blueberries	2017	1,090	4.32	4,710	Ton	6,560.00	30,885,000
	2016	865	5.13	4,440	Ton	7,380.00	32,785,000
Cherries	2017	4,630	4.21	19,500	Ton	4,530.00	88,430,000
	2016	4,690	5.93	27,800	Ton	3,810.00	105,794,000
Citrus, All	2017	64,460	16.04	1,033,800	Ton		942,926,000
	2016	62,173	16.30	1,013,600	Ton		824,530,000
Grapefruit	2017	770	13.51	10,400	Ton	913.00	9,498,000
	2016	853	13.01	11,100	Ton	853.00	9,465,000
Lemons	2017	4,010	13.02	52,200	Ton	1,310.00	68,334,000
	2016	3,740	14.73	55,100	Ton	1,330.00	73,162,000
Oranges,	2017	30,400	13.75	418,000	Ton	836.00	349,871,000
Navels	2016	30,300	13.76	417,000	Ton	725.00	301,896,000
Oranges,	2017	5,380	17.51	94,200	Ton	918.00	86,440,000
Valencia	2016	5,380	14.20	76,400	Ton	702.00	53,634,000
Tangerine &	2017	23,900	9.62	230,000	Ton	1,710.00	394,311,000
Tangelo	2016	21,900	9.95	218,000	Ton	1,580.00	345,454,000
Processing,	2017			229,000	Ton	151.00	34,472,000
All Citrus	2016			236,000	Ton	173.00	40,919,000
Grapes, All	2017	115,600	11.04	1,276,120	Ton		1,747,529,000
	2016	106,900	11.18	1,194,790	Ton		1,659,431,000
Raisin Variety	b/2017	13,700	16.96	232,420	Ton		112,110,000
	b/2016	13,400	15.70	210,390	Ton		68,171,000
Fresh Market	2017			16,100	Ton	1,670.00	1,670.00
	2016			10,900	Ton	1,490.00	1,490.00
Raisins	c/2017			44,900	Ton	1,800.00	80,893,000
	c/2016			41,800	Ton	1,100.00	46,012,000
Processing	2017			4,820	Ton		1,700,000
	2016			5,190	Ton	568.00	2,950,000
Crushed	2017			10,800	Ton	248.00	2,682,000
	2016			15,400	Ton	190.00	2,922,000
Table Variety	2017	69,700	11.00	766,700	Ton		1,549,210,000
	2016	63,800	11.78	751,400	Ton		1,521,701,000

Fruit & Nut Crops 2017

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Fresh Market	2017			677,000	Ton	2,270.00	1,533,690,000
	2016			676,000	Ton	2,230 .00	1,510,387,000
Crushed	2017			89,700	Ton	173.00	15,520,000
	2016			75,400	Ton	150.00	11,314,000
Wine Variety	2017	32,200	8.60	277,000	Ton		86,209,000
	2016	29,700	7.85	233,000	Ton		69,559,000
Crushed	2017			277,000	Ton	311.00	86,209,000
	2016			233,000	Ton	299.00	69,559,000
Pistachios	2017	122,000	1.17	d/143,100	Ton	3,880.00	555,524,000
	2016	110,000	1.62	d/178,200	Ton	4,320 .00	769,258 ,000
Plums	2017				Acre		
	2016				Acre		
Tomatoes,	2017				Acre		
Fresh	2016				Acre		
Tomatoes,	2017	8,600	51.28	441,000	Acre	70.60	31,121,000
Processed	2016	13,900	46.40	645,000	Acre	72.50	46 ,760,000
Walnuts	2017	610	1.90	d/1,160	Ton	2,520.00	2,924,000
	2016	1,070	1.50	d/1,600	Ton	2,030.00	3,249,000
Miscellaneous	e/2017	15,300		201,000	Ton		141,087,000
	f/2016	12,400		181,000	Ton		159,244,000
Totals	2017	546,290		3,725,390	Ton		$ 4,802,164,000
	2016	530,238		3,791,340	Ton		$ 4,900,990,000

Note: Organic commodities included
a/ Almond production stated in terms of Nut Meat Equivalents.
b/ Total production includes raisins on a Fresh Equivalent basis.
c/ A combined value reflecting free tonnage and reserve tonnage:
Dry Ratio: 2017-4.47 to 1 2016-4.28 to 1
d/ Pistachio and Walnut production stated in terms of In-Shell Equivalents.
e/ Includeds: Apples (Fresh & Processed), Apricot (Fresh & Processed), Avocado, Blackberry, Blueberry (Processed), Cactus Pear, Cherry (Processed), Chest- nut, Fig (Fresh& Dry), Jujube, Nectarines , Olive (Fresh & Processed) , Peach (Fresh & Processed) , Pear, Pecan, Persimmon, Plum, Plumcot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, Tomato (Fresh) and Quince.
f/ Includes : Apricots (Processed) , Avocado, Blackberry, Cactus Pear, Cherry (Processed), Chestnut, Fig (Fresh & Dry), Jujube, Kiwi, Kumquat, Lime, Nectarines, Olive (Fresh & Processed), Peach (Fresh & Processed), Pear, Pecan, Persimmon, Plum, Plumcot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, Tomato (Fresh) and Quince.

(Information provided by the Kern County Department of Agriculture and Measurement Standards Website: www.kernag.com)

KERN COUNTY 2018 CROP REPORT SUMMARY

COMMODITY	YEAR	HARVESTED ACRES	RANGE	TOTAL
Fruit & Nut Crops	2018	551,495	---	$ 5,147,712,000
	2017	546,290	---	$ 4,802,164,000
Field Crops & Rangeland	2018	236,831	1,430,000	331,573,000
	2017	248,021	1,446,000	303,075,000
Vegetable Crops	2018	74,160	---	770,301,000
	2017	86,830	---	916,636,000
Nursery Crops	2018	2,532	---	122,473,000
	2017	2,230	---	113,705,000
Industrial & Wood Crops	2018	---	---	14,925,000
	2018	---	---	10,764,000
Seed Crops	2018	795	---	7,876,000
	2017	1,200	---	14,932,000
Livestock & Poultry	2018	---	---	272,181,000
	2017	---	---	332,978,000
Livestock & Poultry Products	2018	---	---	687,292,000
	2017	---	---	666,421,000
Apiary Products	2018	---	---	111,819,000
	2017	---	---	93,493,000
Totals	2018	865,813	1,430,000	$ 7,466,152,000
	2017	884,571	1,446,000	$ 7,254,168,000
Total Value without Timber	2018			$ 7,465,847,000
	2017			$ 7,254,005,000

(Information provided by the Kern County Department of Agriculture and Measurement Standards Website: www.kernag.com)



KERN COUNTY
2018 CROP REPORT

TOP 20 CROPS

COMMODITY	VALUE	2017 RANKING
1. Grapes	$1,512,473,000	1
2. Almond, Including By-Products	1,235,158,000	2
3. Pistachios	1,143,972,000	5
4. Citrus, Fresh & Processing	1,063,063,000	3
5. Milk, Market & Manufacturing	591,895,000	4
6. Carrots, Fresh & Processing	398,286,000	6
7. Cattle & Calves	254,995,000	7
8. Alfalfa	114,991,000	9
9. Apiary	111,819,000	10
10. Nursery, Fruit and Nut Trees & Vines	96,641,000	12
11. Eggs & Egg Products	91,115,000	19
12. Silage & Forage	87,538,000	14
13. Potatoes	87,477,000	8
14. Pomegranates, Fresh & Processing	74,019,000	18
15. Garlic, Fresh & Processing	71,392,000	16
16. Cotton, Including Processed Cottonseed	67,634,000	13
17. Tomato, Fresh & Processing	51,792,000	15
18. Bell Peppers, Fresh & Processing	41,674,000	21
19. Onions	38,249,000	17
20 Pasture, All	38,048,000	23

(Information provided by the Kern County Department of Agriculture and Measurement Standards Website: www.kernag.com)

Fruit & Nut Crops 2018

CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
Almonds	2018	223,000	1.15	a/256,000	Ton	$4,690.00	$1,200,514,000
	2017	214,000	1.23	a/264,000	Ton	$4,680.00	$1,234,724,000
Almond	2018	---	---	309,000	Ton	112.00	36,644,000
By- Products	2017	---	---	341,000	Ton	79.00	27,014,000
Apples	2018	675	3.64	2,460	Ton	771.00	1,896,000
	2017	---	---	---	Ton	---	---
Blueberries	2018	1,260	0.94	1,190	Ton	6,620.00	7,883,000
	2017	1,090	4.32	4,710	Ton	6,560.00	30,885,000
Cherries	2018	3,810	1.23	4,700	Ton	7,370.00	34,640,000
	2017	4,630	4.21	19,500	Ton	4,530.00	88,430,000
Citrus, All	2018	66,720	15.12	1,008,700	Ton	---	1,063,063,000
	2017	64,460	16.04	1,033,800	Ton	---	942,926,000
Grapefruit	2018	910	12.86	11,700	Ton	907.00	10,615,000
	2017	770	13.51	10,400	Ton	913.00	9,498,000
Lemons	2018	4,130	13.44	55,500	Ton	1,380.00	76,766,000
	2017	4,010	13.02	52,200	Ton	1,310.00	68,334,000
Oranges,	2018	30,500	12.82	391,000	Ton	1,000.00	391,579,000
Navels	2017	30,400	13.75	418,000	Ton	836.00	349,871,000
Oranges,	2018	5,380	16.26	87,500	Ton	962.00	84,208,000
Valencia	2017	5,380	17.51	94,200	Ton	918.00	86,440,000
Tangerine &	2018	25,800	10.62	274,000	Ton	1,720.00	469,912,000
Tangelo	2017	23,900	9.62	230,000	Ton	1,710.00	394,311,000
Processing,	2018	---	---	189,000	Ton	159.00	29,983,000
All Citrus	2017	---	---	229,000	Ton	151.00	34,472,000
Grapes, All	2018	109,400	12.39	1,355,710	Ton	---	1,512,473,000
	2017	115,600	11.04	1,276,120	Ton	---	1,747,529,000
Raisin Variety	b/2018	17,500	18.62	325,810	Ton	---	166,096,000
	b/2017	13,700	16.96	232,420	Ton	---	112,110,000
Fresh Market	2018	---	---	28,100	Ton	1,120.00	31,499,000
	2017	---	---	16,100	Ton	1,670.00	26,835,000
Raisins	c/2018	---	---	59,800	Ton	2,150.00	128,480,000
	c/2017	---	---	44,900	Ton	1,800.00	80,893,000

Fruit & Nut Crops 2018

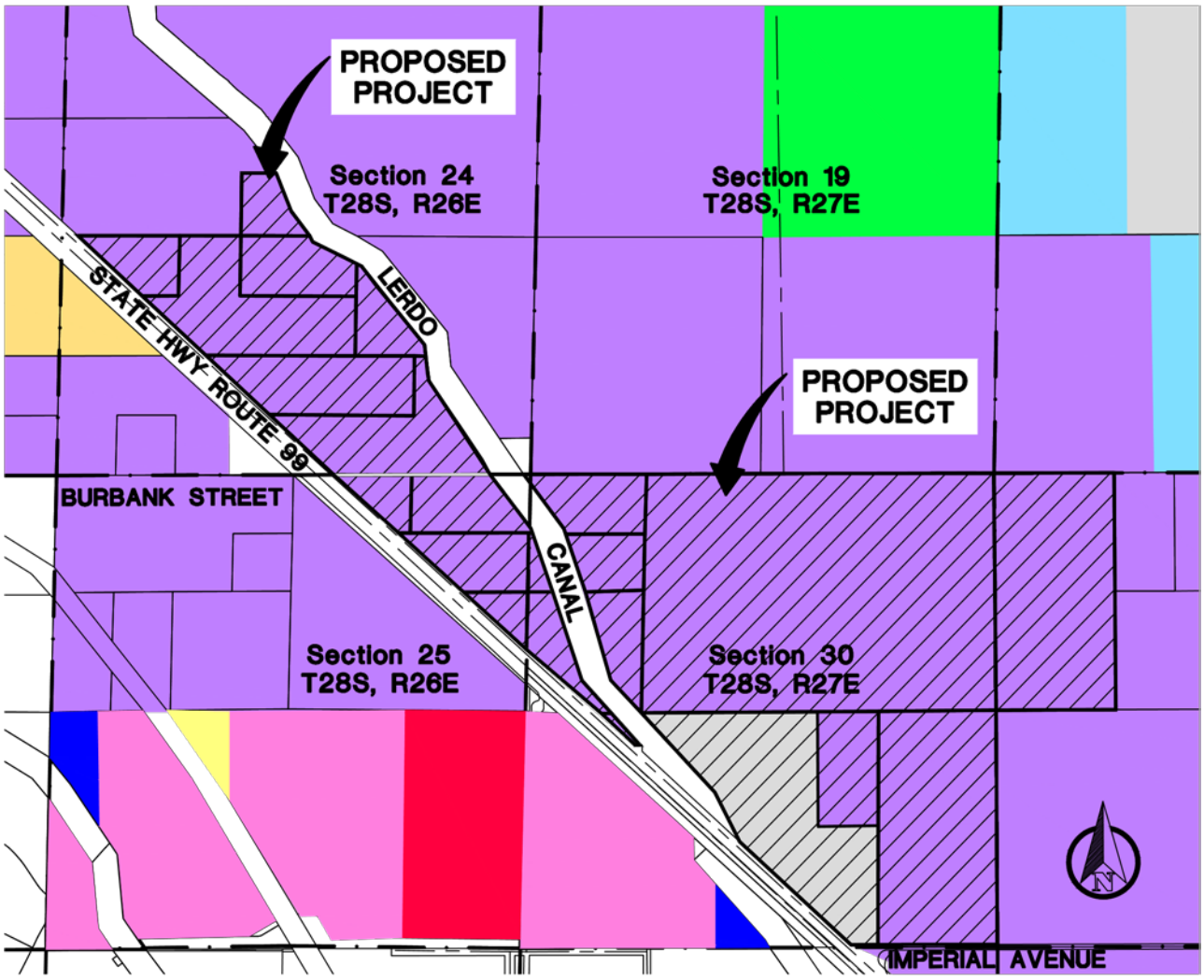
CROP	YEAR	HARVESTED ACRES	PRODUCTION PER ACRE	TOTAL PRODUCTION	UNIT	UNIT VALUE	TOTAL VALUE
	2017	---	---	4,820	Ton	353.00	1,700,000
Crushed	2018	---	---	14,400	Ton	214.00	3,075,000
	2017	---	---	10,800	Ton	248.00	2,682,000
Table Variety	2018	62,700	12.02	753,900	Ton	---	1,263,854,000
	2017	69,700	11.00	766,700	Ton	---	1,549,210,000
Fresh Market	2018	---	---	653,000	Ton	1,910.00	1,244,817,000
	2017	---	---	677,000	Ton	2,270.00	1,533,690,000
Crushed	2018	---	---	100,900	Ton	189.00	19,037,000
	2017	---	---	89,700	Ton	173.00	15,520,000
Wine Variety	2018	29,200	9.45	276,000	Ton	---	82,523,000
	2017	32,200	8.60	277,000	Ton	---	86,209,000
Crushed	2018	---	---	276,000	Ton	299.00	82,523,000
	2017	---	---	277,000	Ton	311.00	86,209,000
Pistachios	2018	128,000	2.00	d/256,100	Ton	4,470.00	1,143,972,000
	2017	122,000	1.17	d/143,100	Ton	3,880.00	555,524,000
Tomatoes,	2018	6,000	61.67	370,000	Acre	79.00	29,246,000
Processed	2017	8,600	51.28	441,000	Acre	70.60	31,121,000
Walnuts	2018	730	1.99	d/1,450	Ton	1,300.00	1,881,000
	2017	610	1.90	d/1,160	Ton	2,520.00	2,924,000
Miscellaneous	e/2018	11,900	---	184,000	Ton	---	117,500,000
	f/2017	15,300	---	201,000	Ton	---	141,087,000
Totals	2018	551,495	---	3,749,310	Ton	---	$ 5,147,712,000
	2017	546,290	---	3,725,390	Ton	---	$ 4,802,164,000

Note: Organic commodities included
a/ Almond Production stated in terms of Nut Meat Equivalents.
b/ Total production includes raisins on a Fresh Equivalent basis.
c/ A combined value reflecting free tonnage and reserve tonnage: Dry Ratio:
2018-4.65 to 1 2017-4.47 to 1
d/ Pistachio and Walnut production stated in terms of In-Shell Equivalents.
e/ Includeds: Apricot (Fresh & Processed), Avocado, Blackberry, Chestnut, Fig (Fresh& Dry), Jujube, Kiwi, Kumquat, Lime, Nectarines, Olive (Fresh & Pro- cessed), Peach (Fresh & Processed), Pear, Pecan, Persimmon, Plum, Plumcot, Pomegranate (Fresh & Juice), Prune, Strawberry, Tomato (Fresh) and Quince. f/ Includes: Apples (Fresh & Processed), Apricots (Fresh & Processed), Avocado, Blackberry, Blueberry (Processed), Cactus Pear, Cherry (Processed), Chest- nut, Fig (Fresh & Dry), Jujube, Nectarines, Olive (Fresh & Processed), Peach (Fresh & Processed), Pear, Pecan, Persimmon, Plum, Plumcot, Pomegranate (Fresh & Juice), Prune, Raspberry, Strawberry, Tomato (Fresh) and Quince.

(Information provided by the Kern County Department of Agriculture and Measurement Standards Website: www.kernag.com)

APPENDIX F

Figures

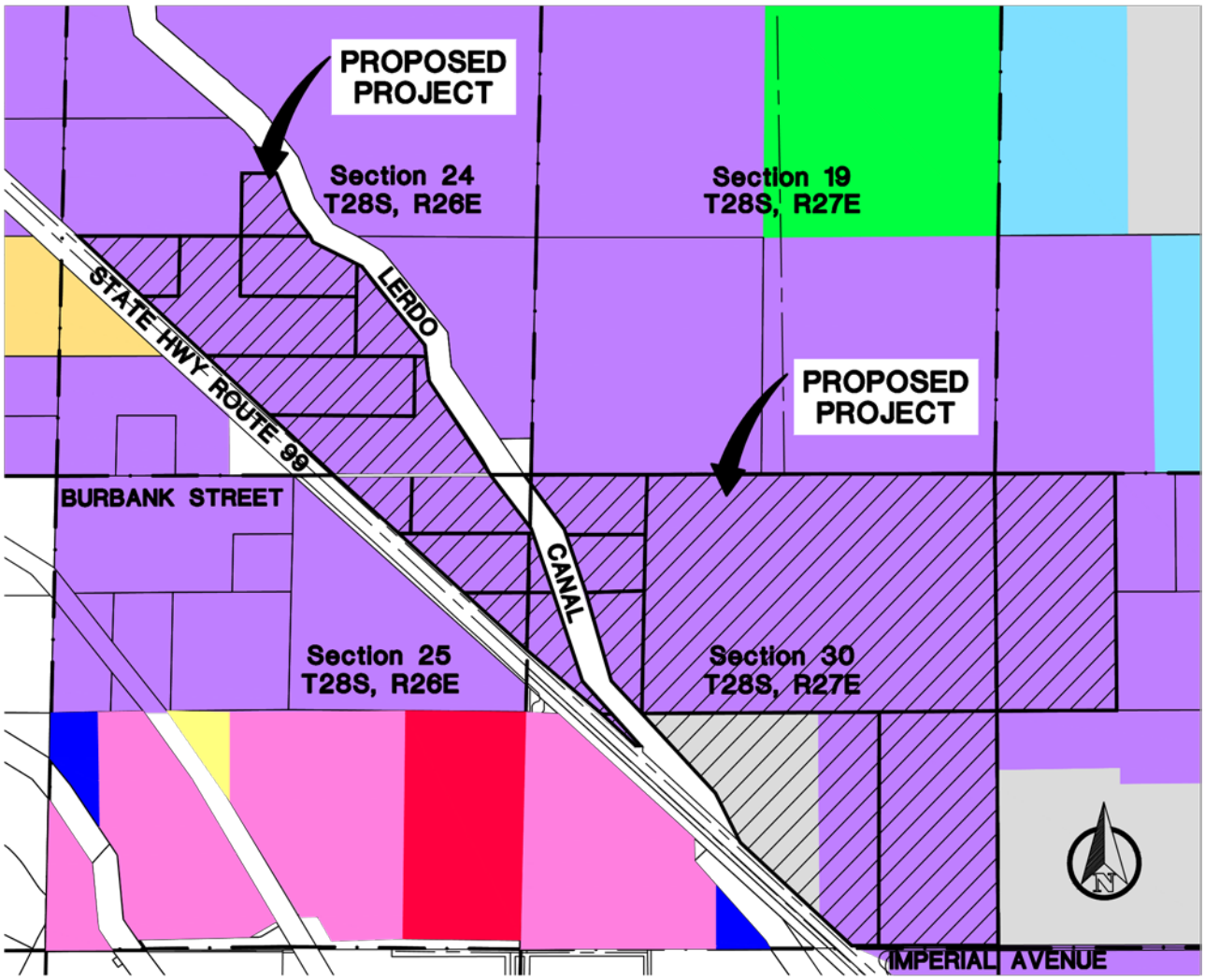


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Adjacent Crops – 2013

Figure F-1

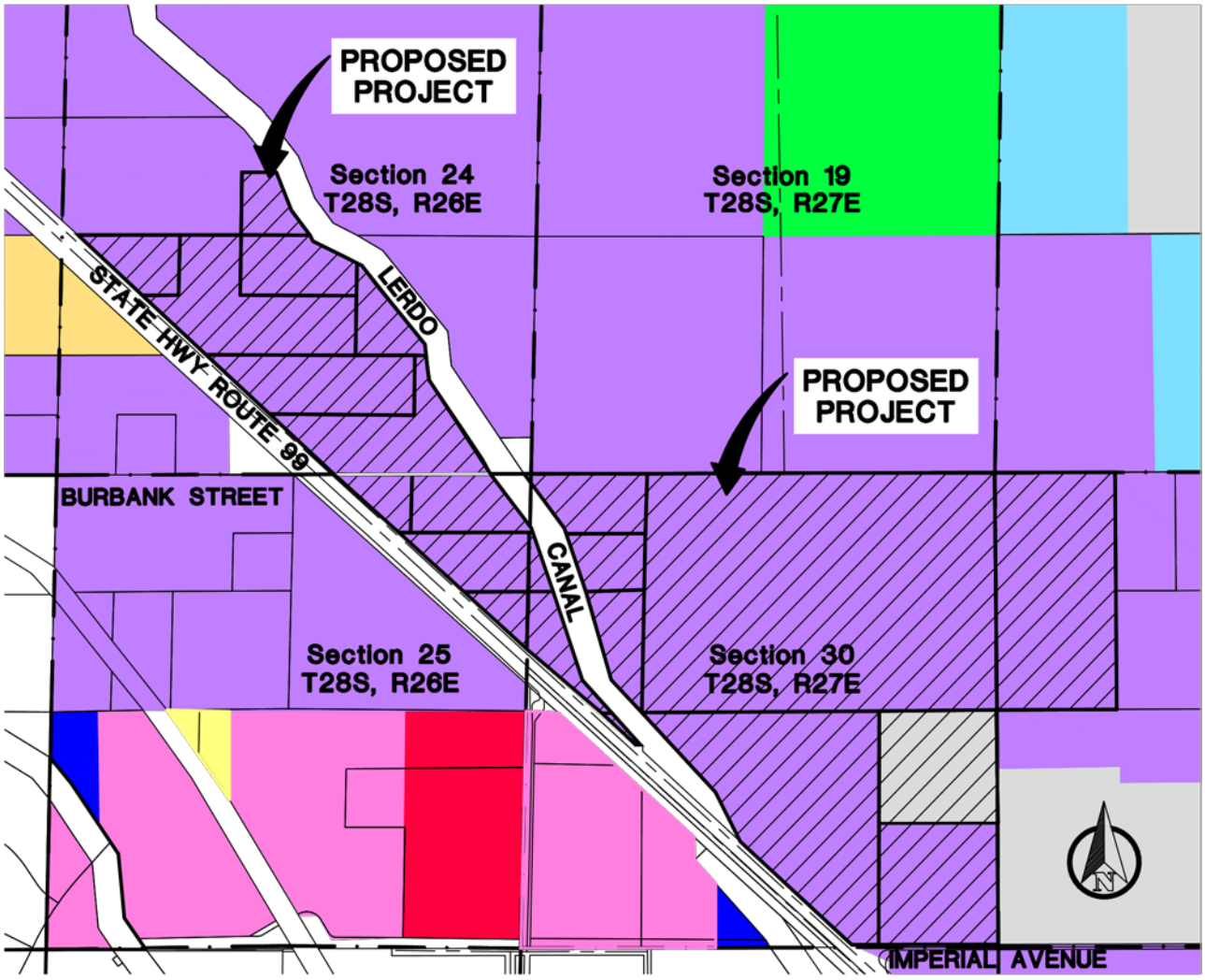


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Adjacent Crops – 2014

Figure F-2

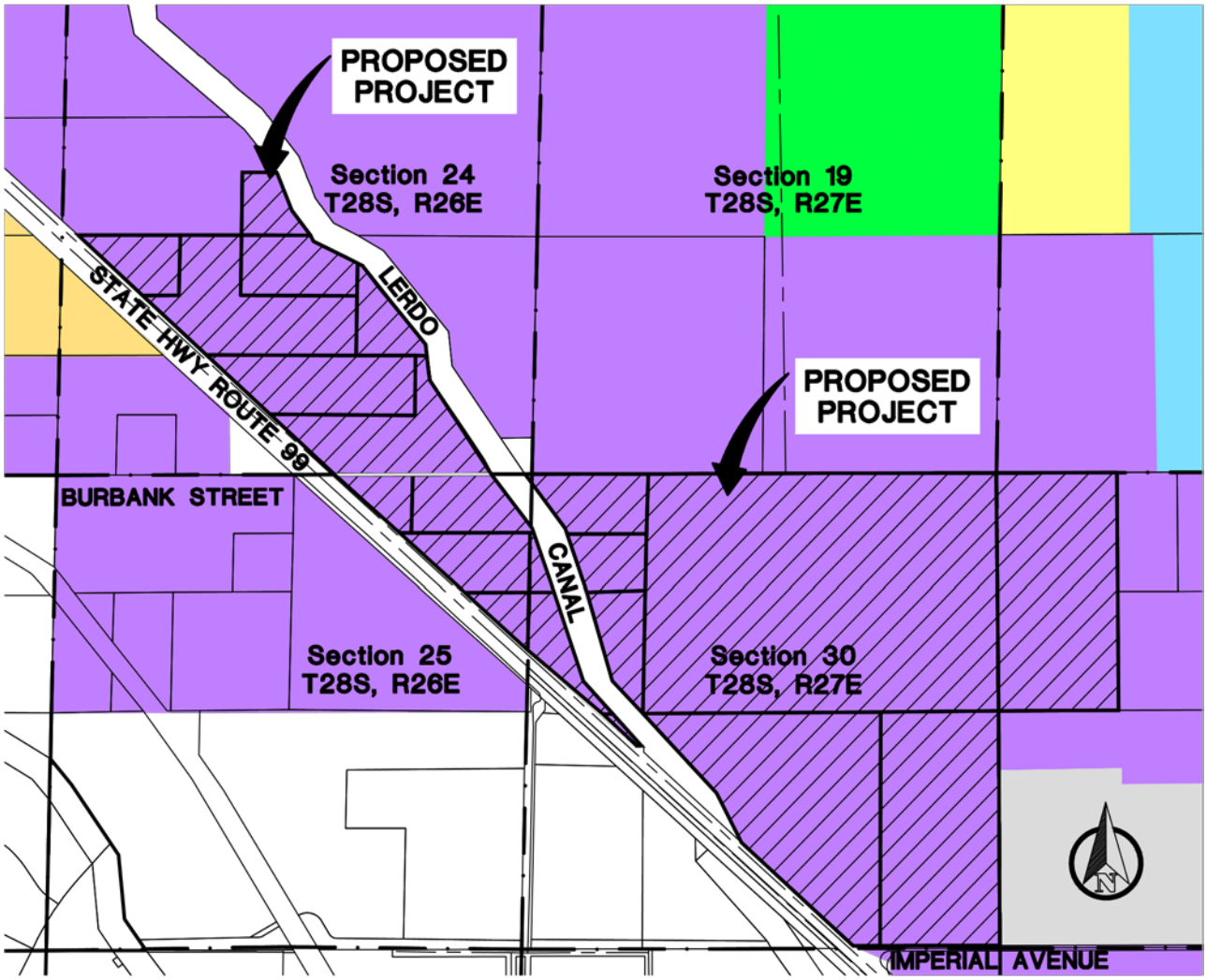


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Adjacent Crops – 2015

Figure F-3

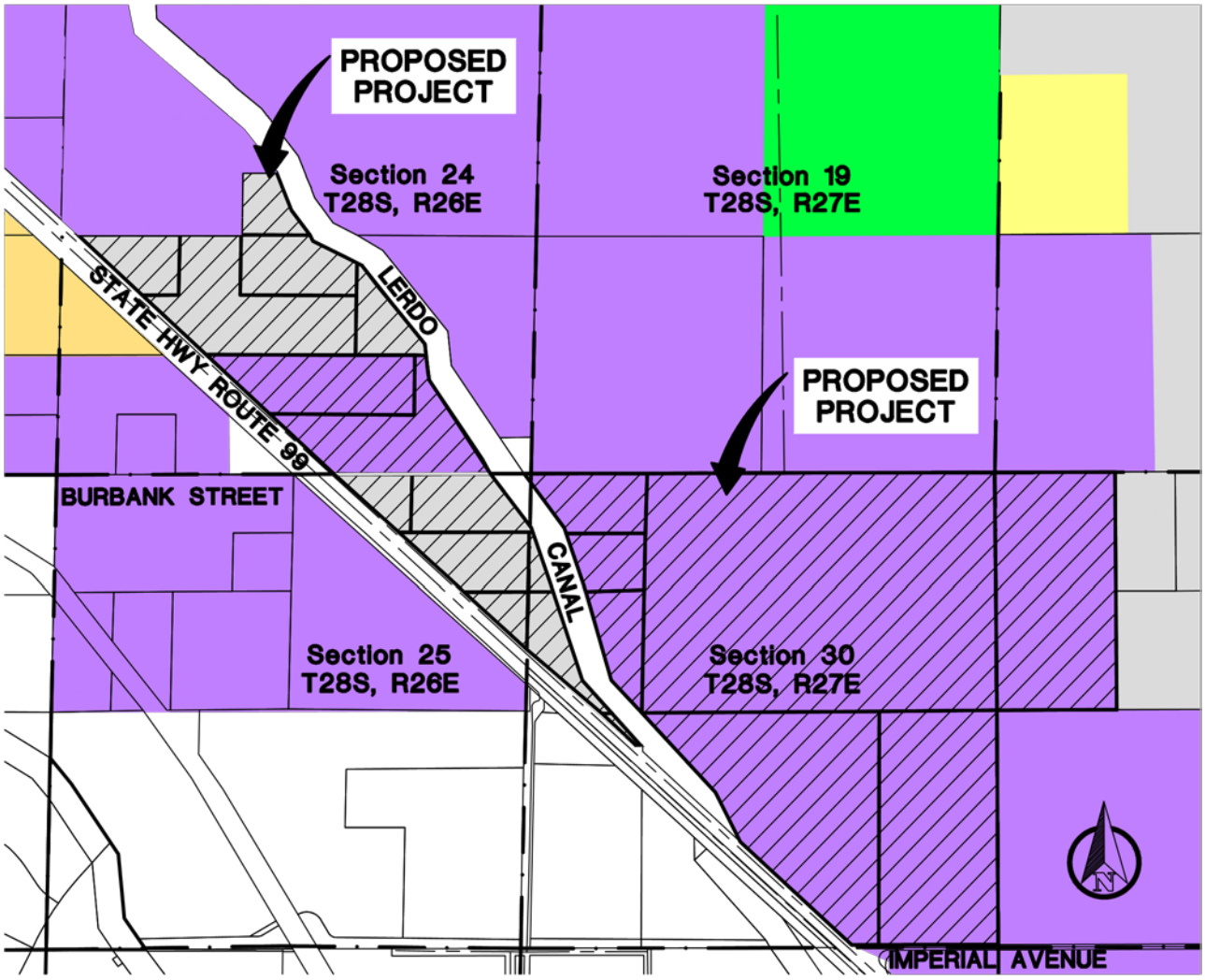


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Adjacent Crops – 2016

Figure F-4

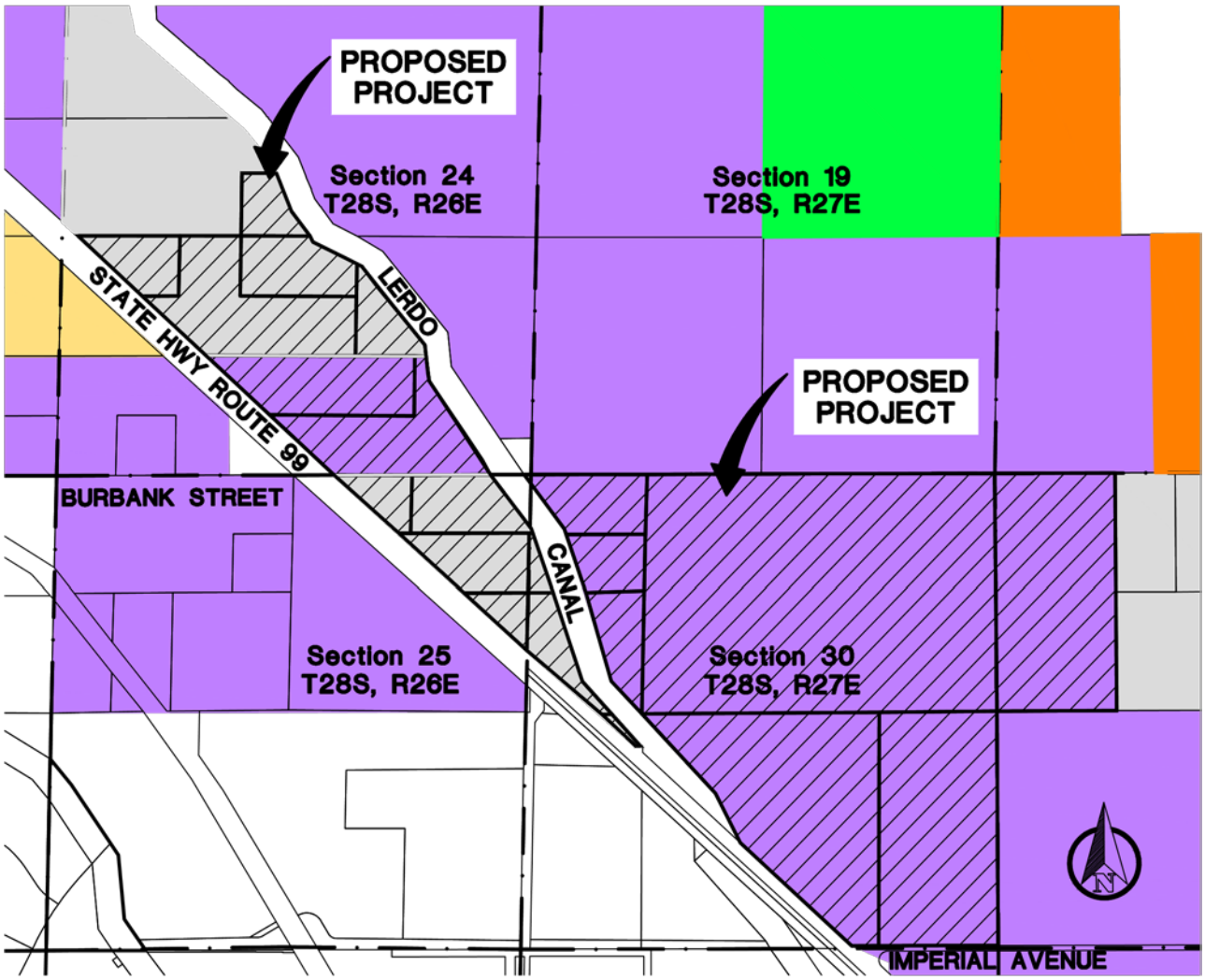


PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Adjacent Crops – 2017

Figure F-5



PROPOSED PROJECT

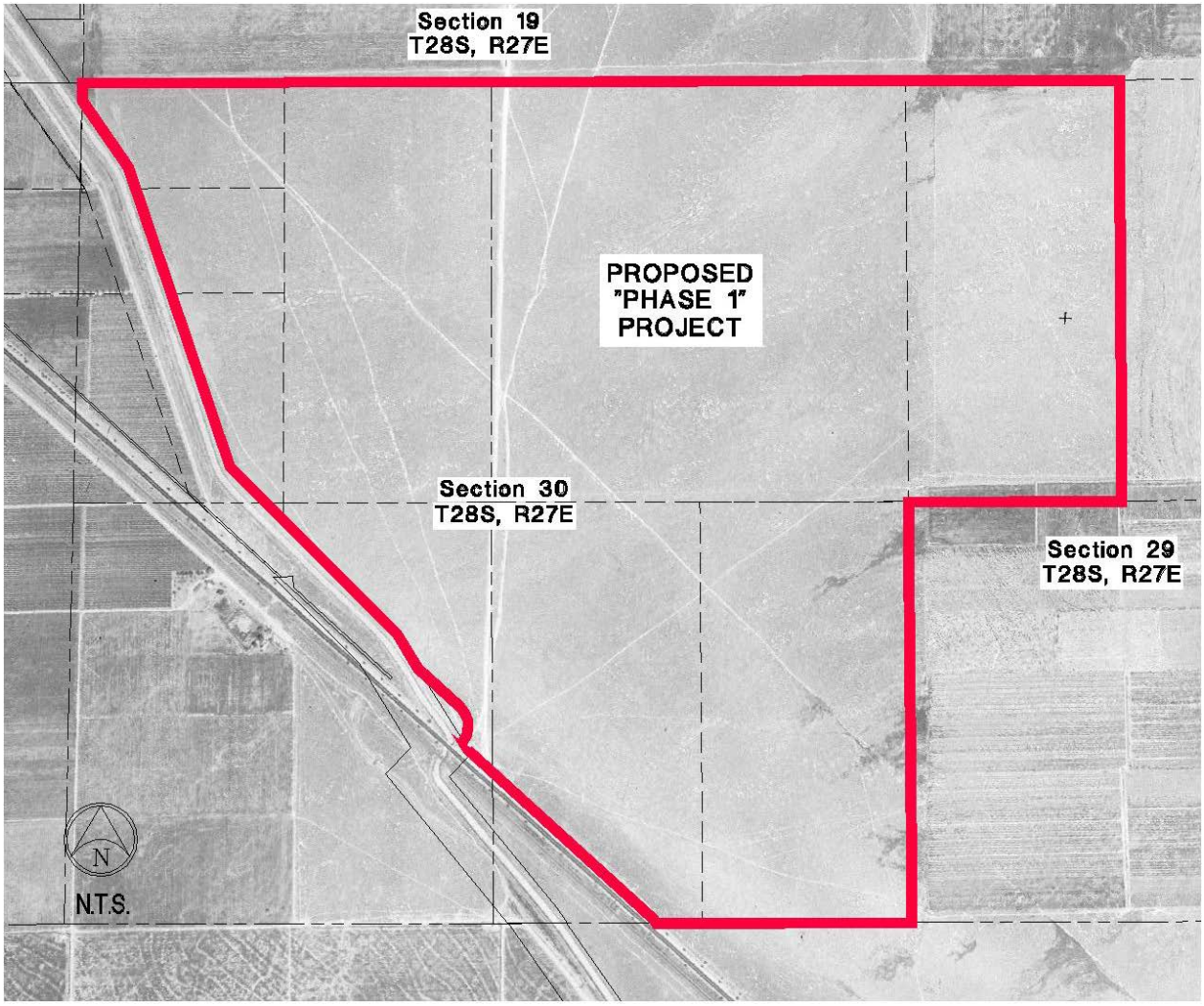
Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Adjacent Crops – 2018

Figure F-6

APPENDIX G

Figures



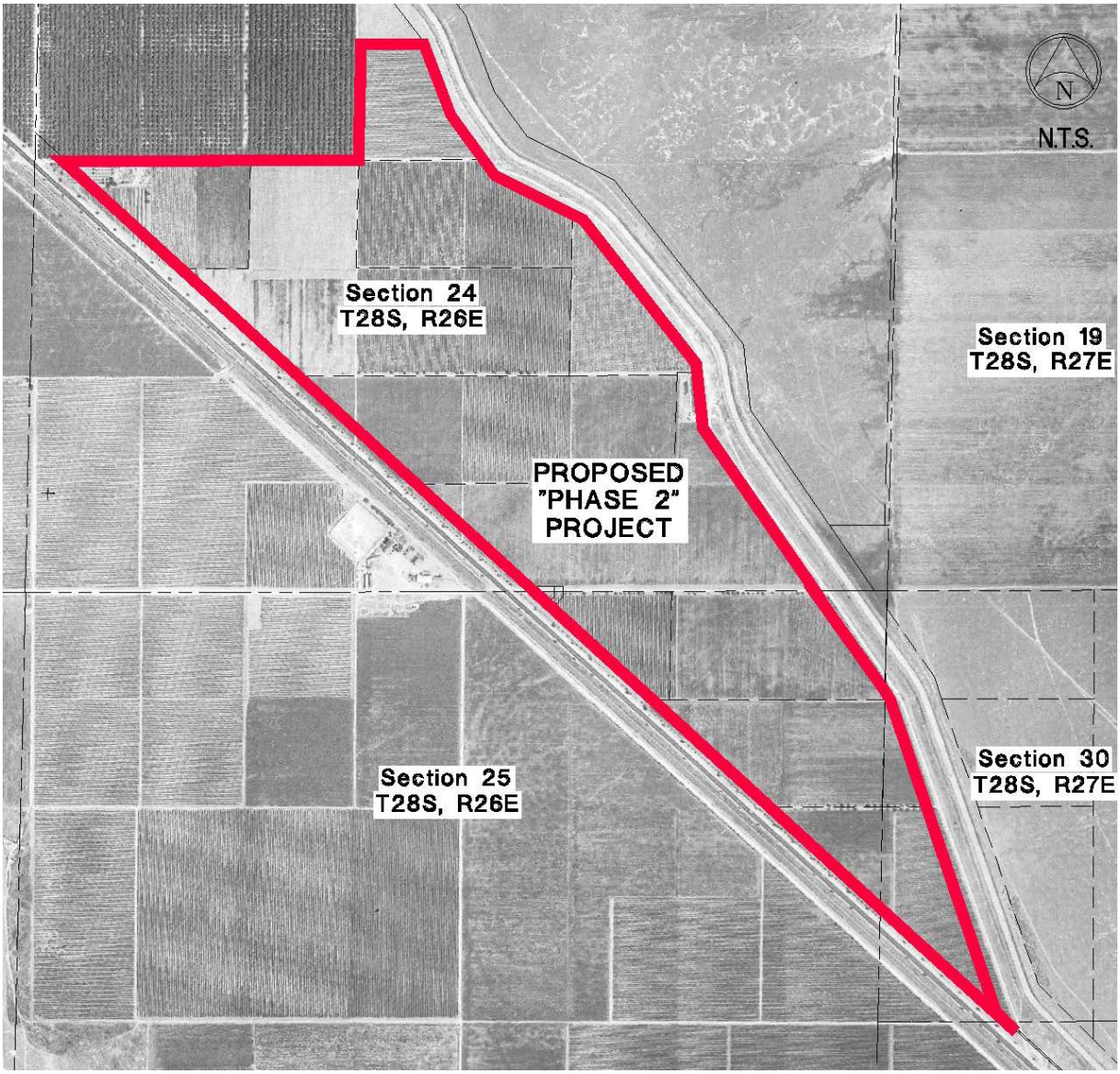
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 1937

Figure G-1



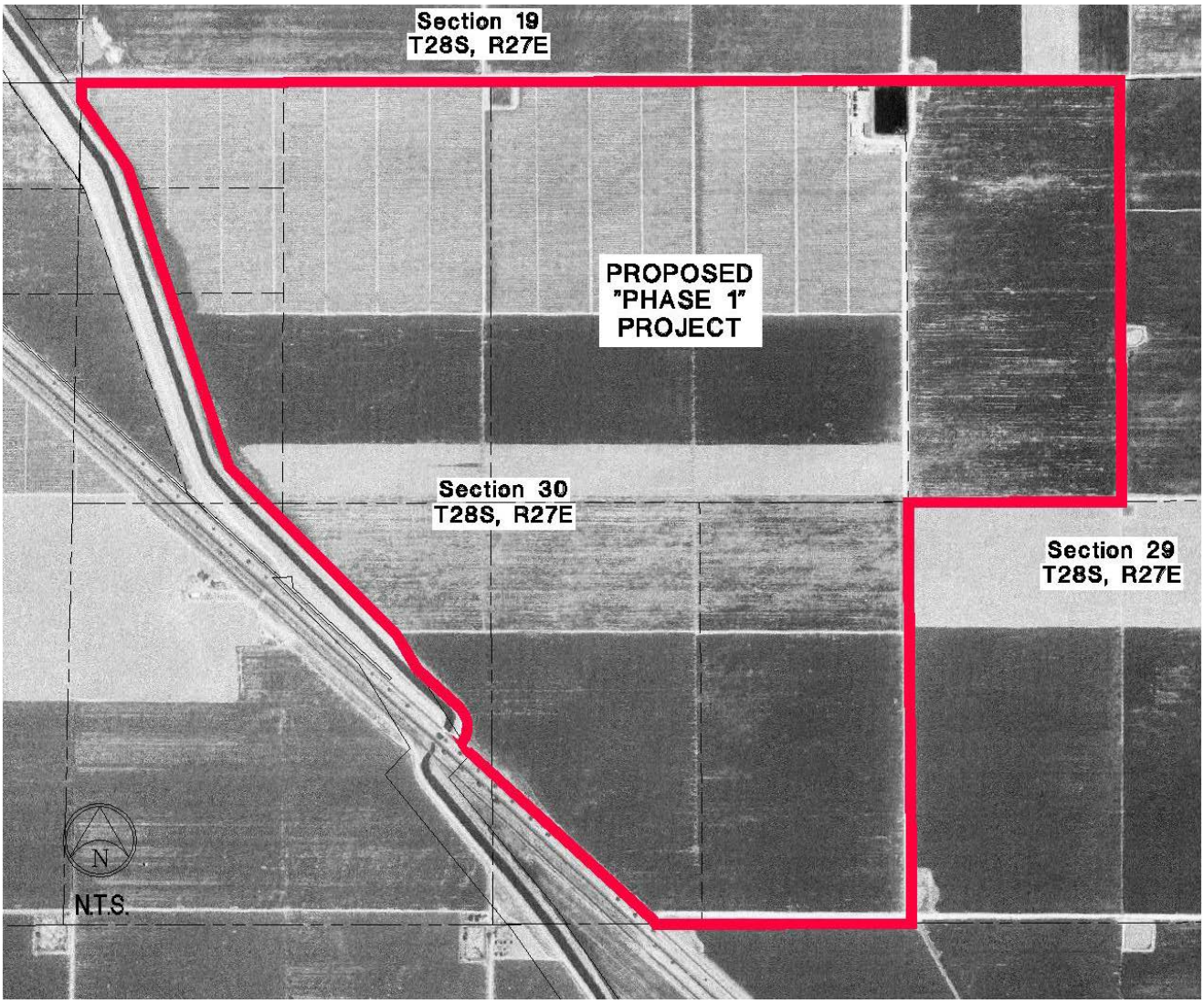
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 1937

Figure G-2



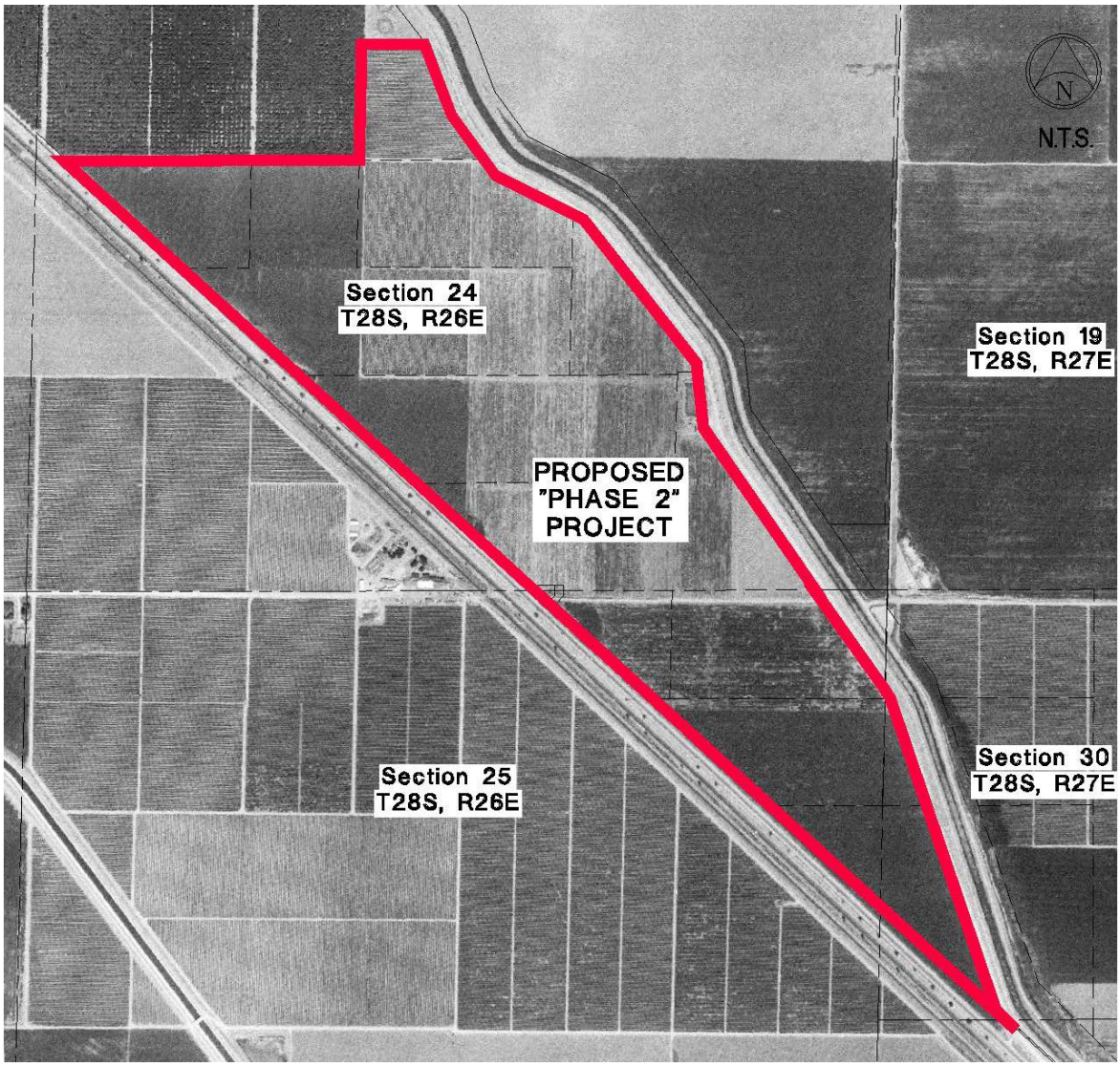
Source: Environmental Date Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 1950

Figure G-3



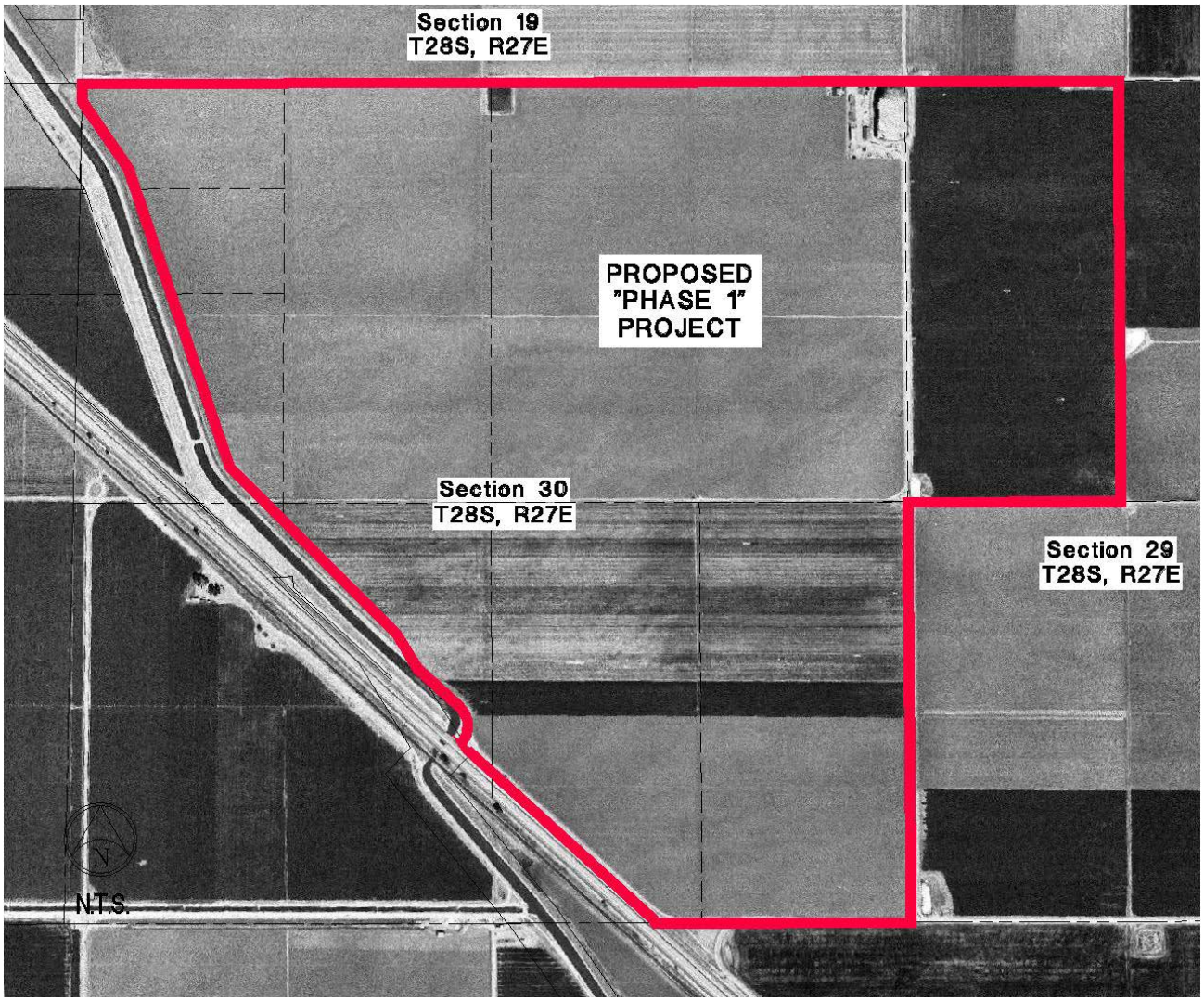
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 1952

Figure G-4



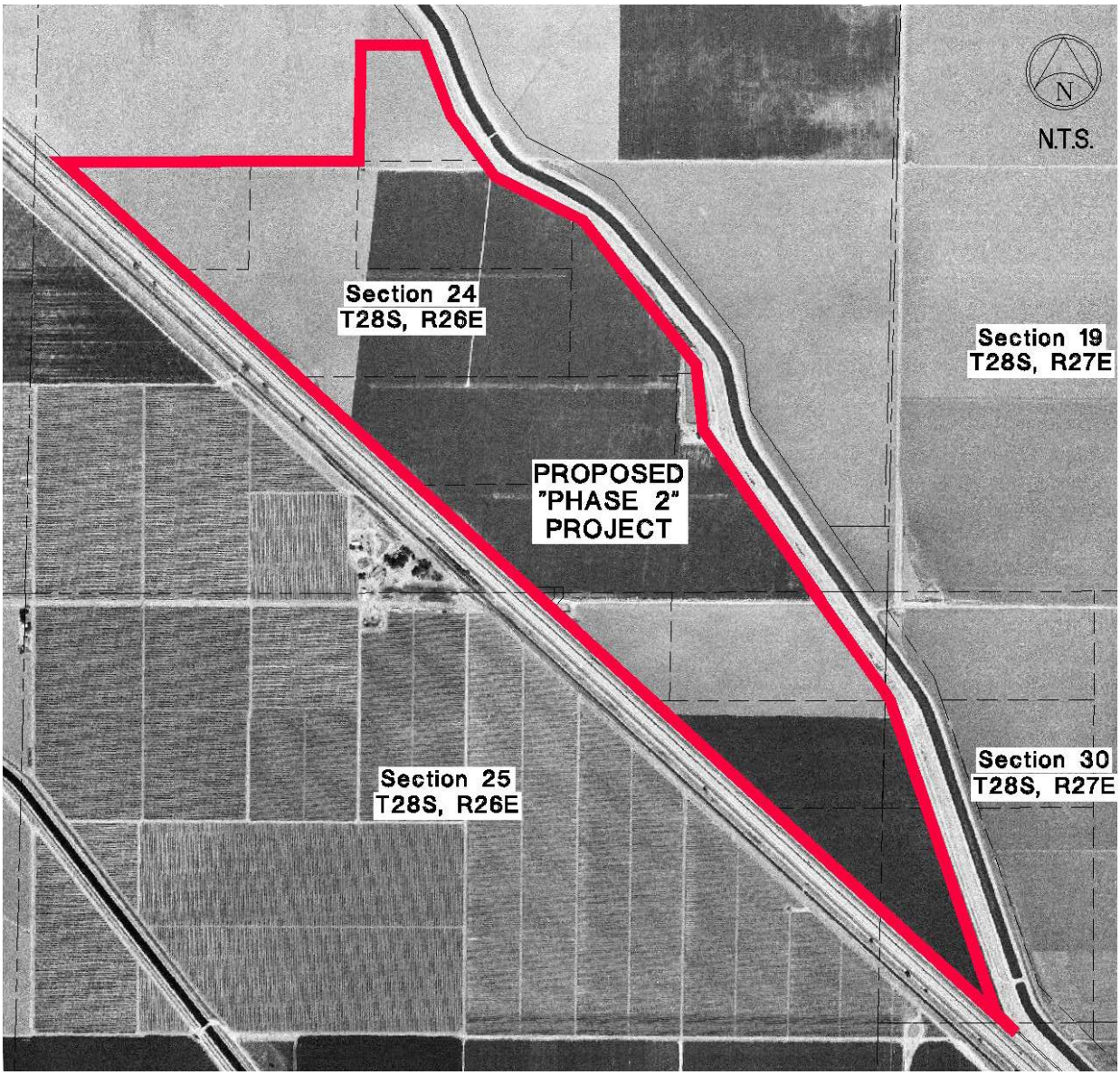
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 1968

Figure G-5



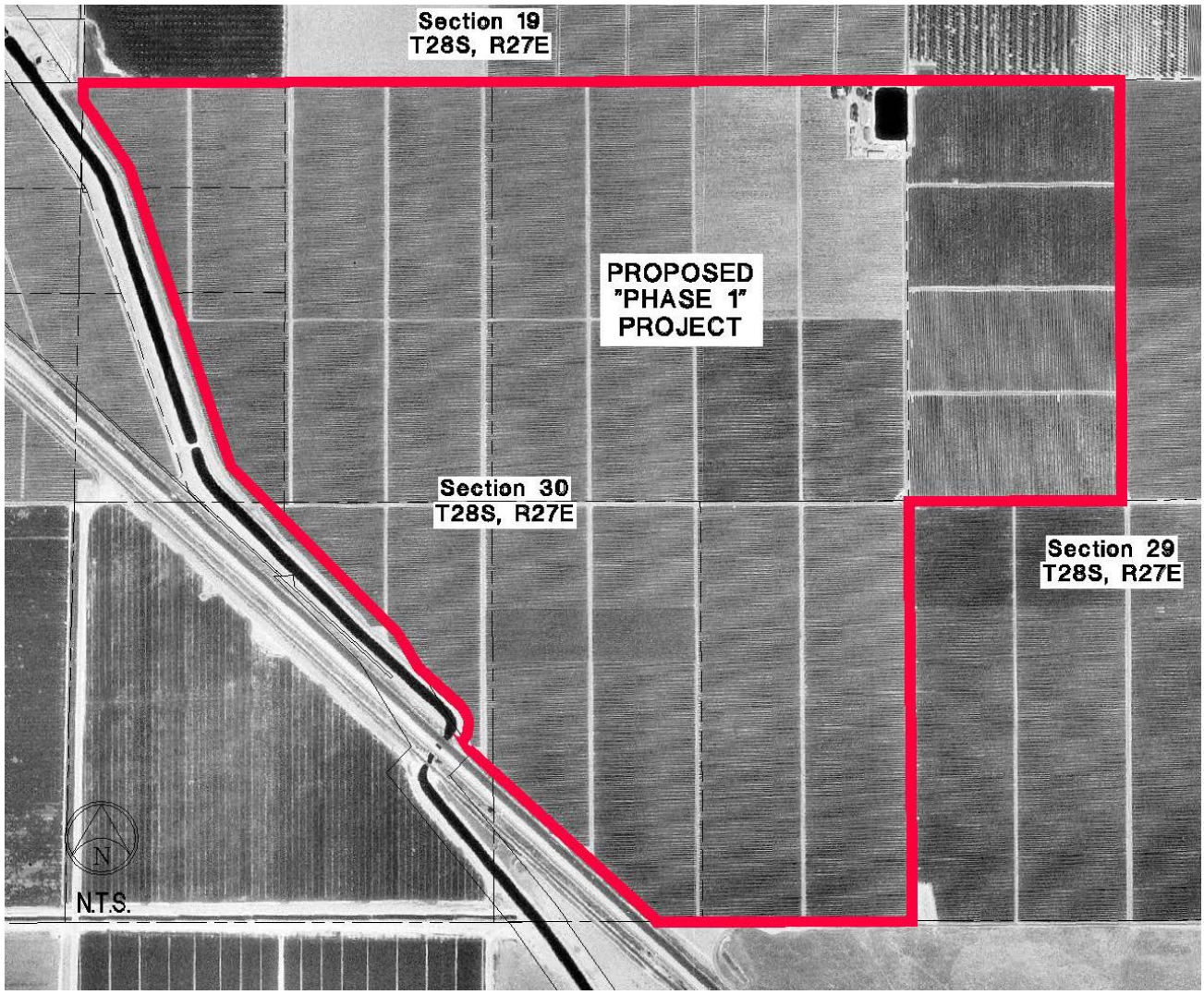
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 1962

Figure G-6



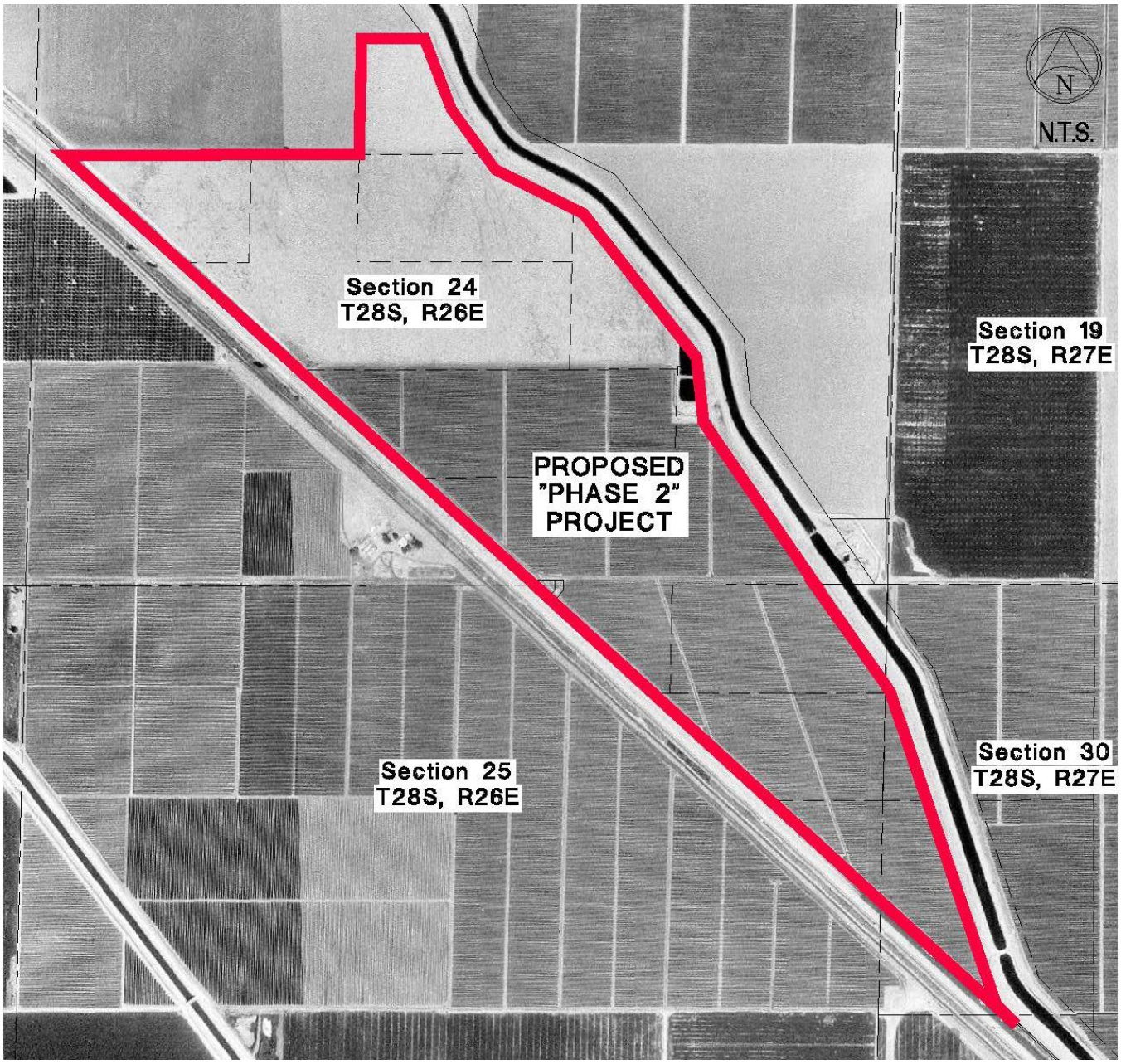
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 1994

Figure G-7



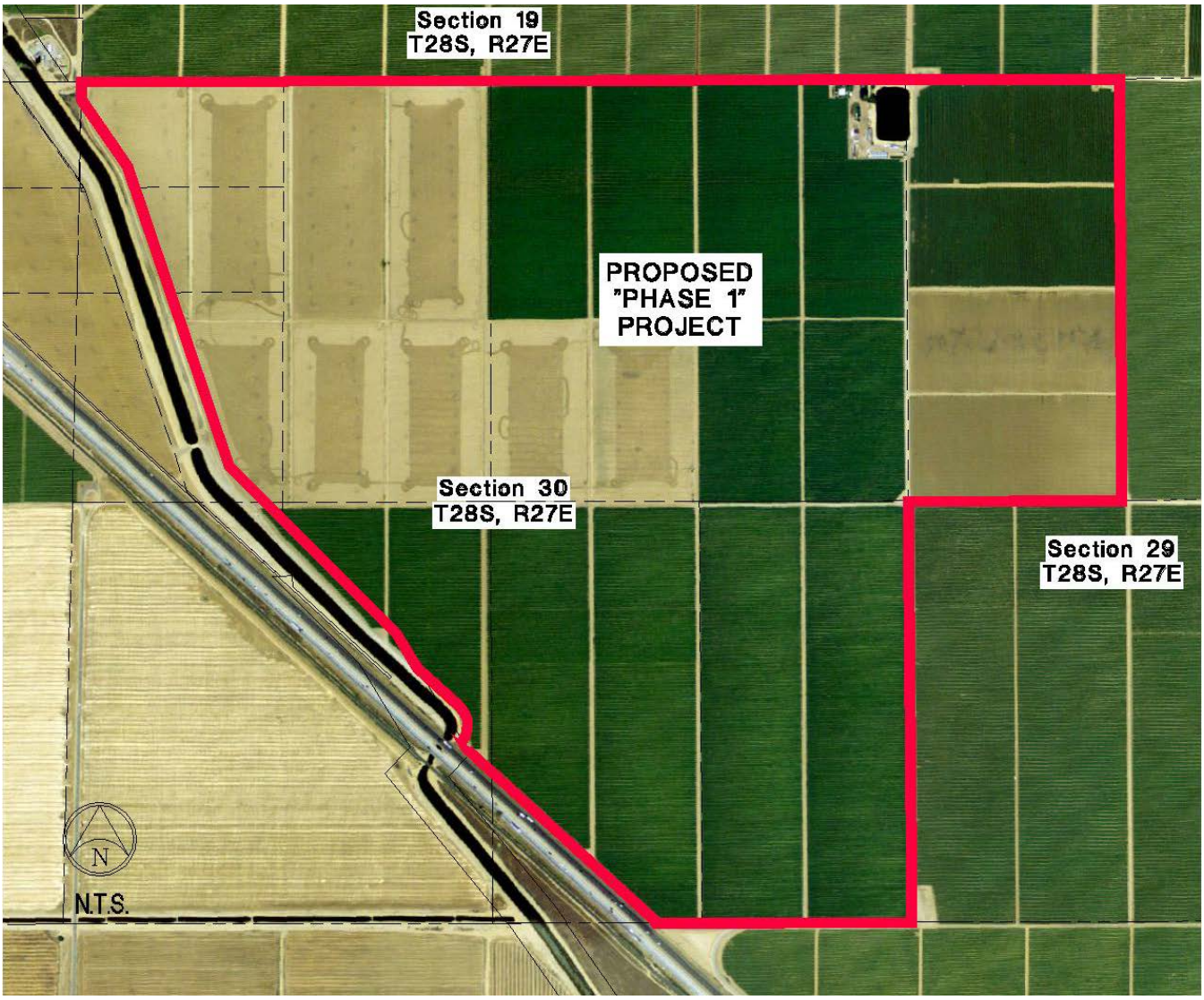
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 1994

Figure G-8



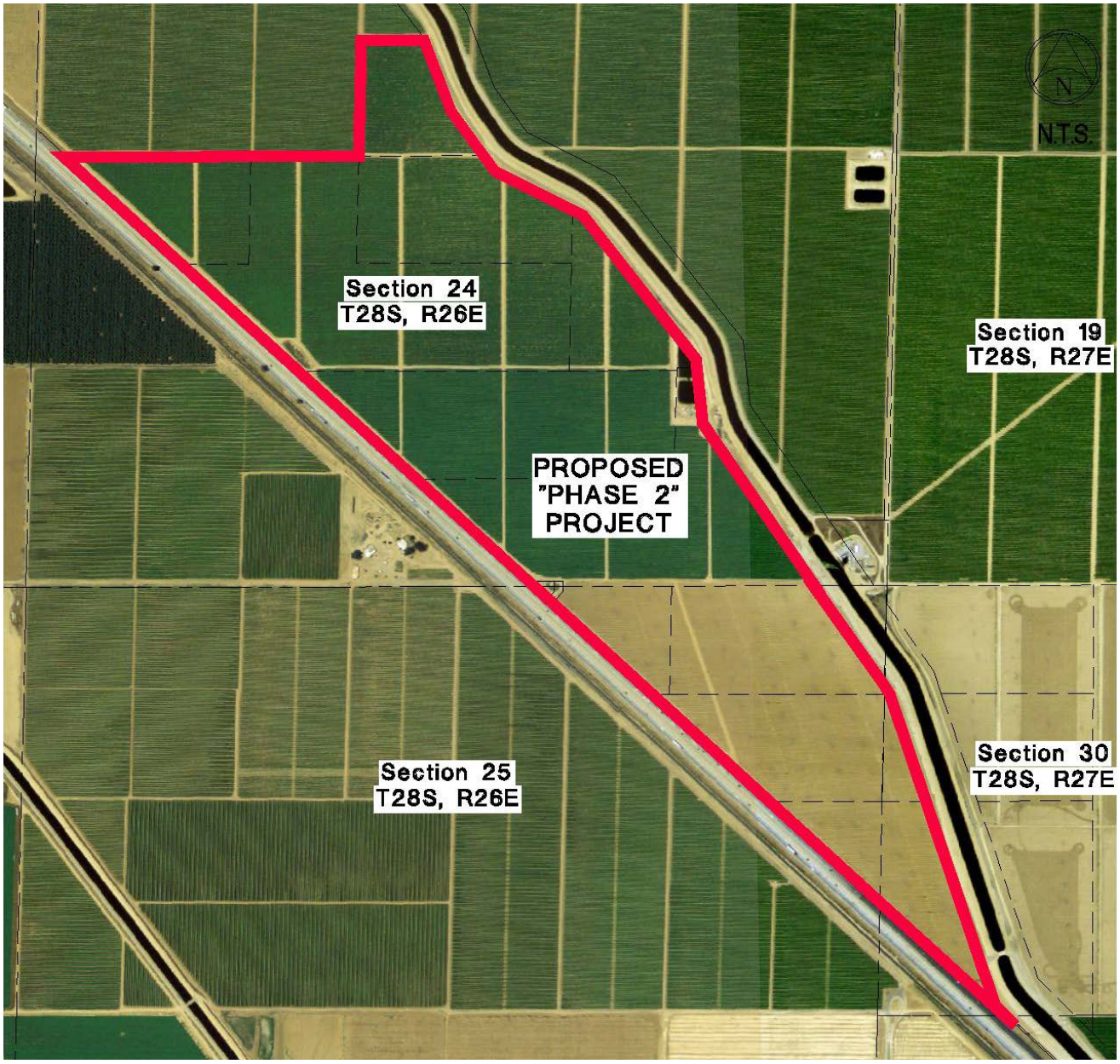
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2005

Figure G-9



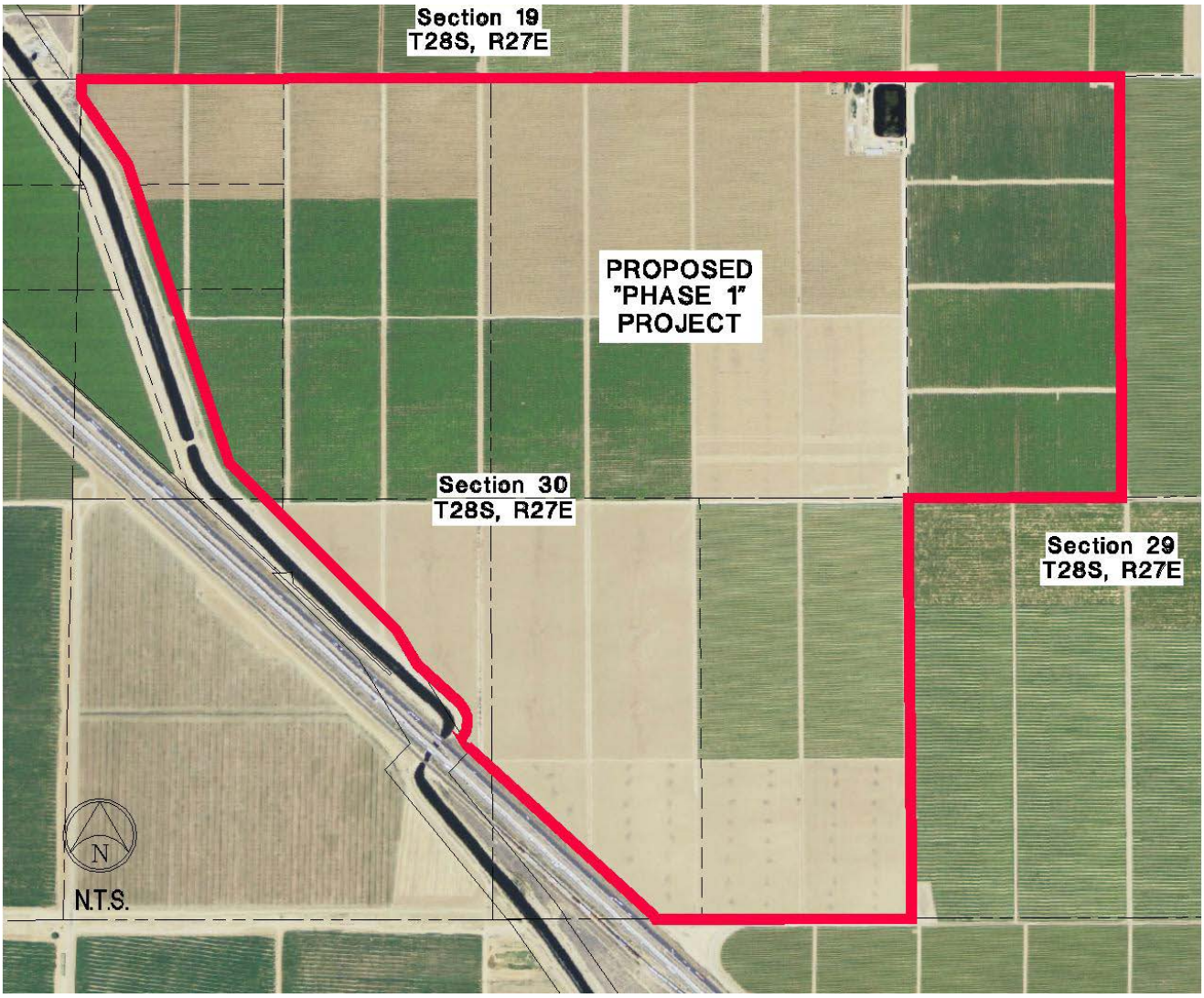
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph – 2005

Figure G-10



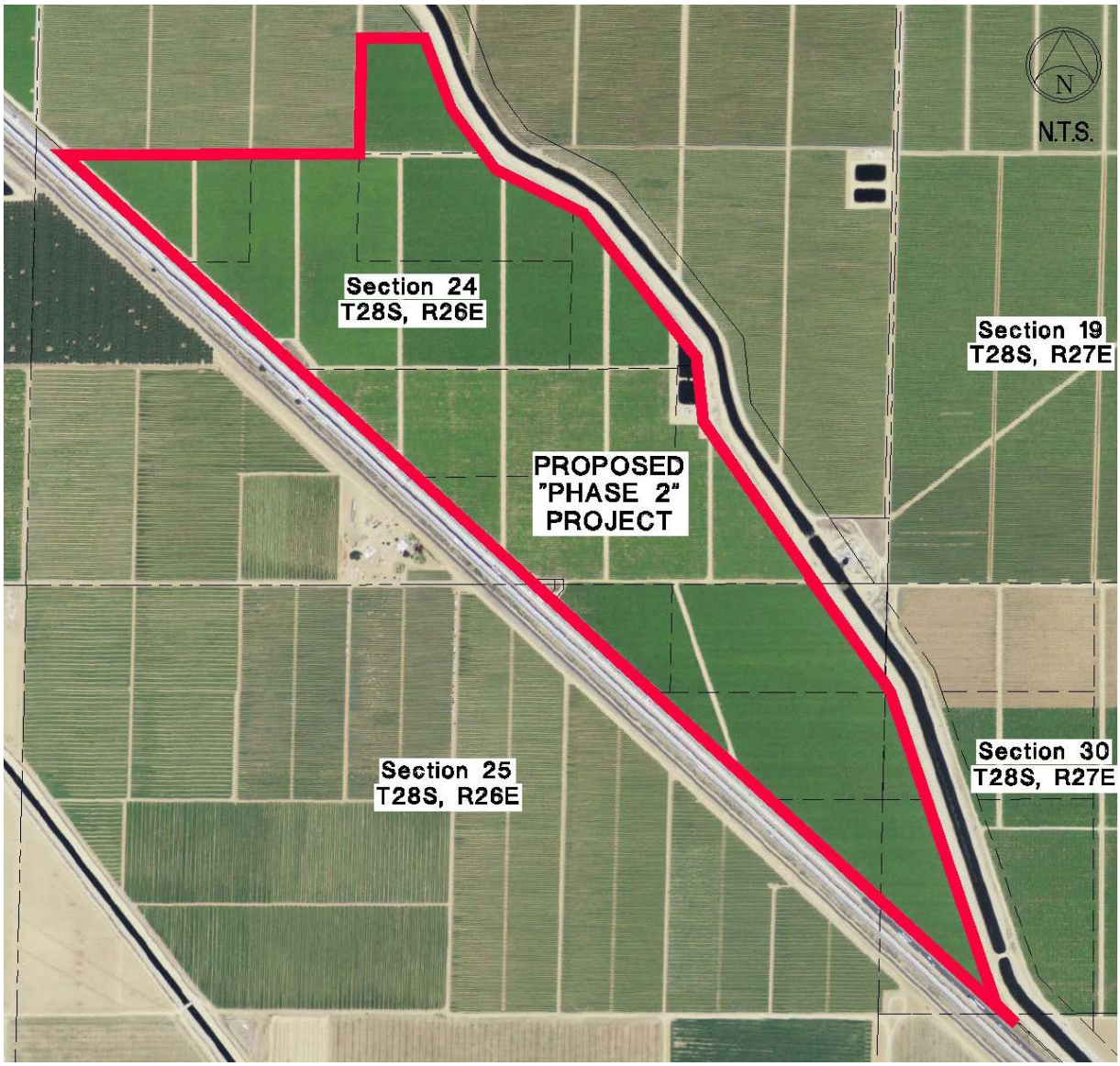
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2012

Figure G-11



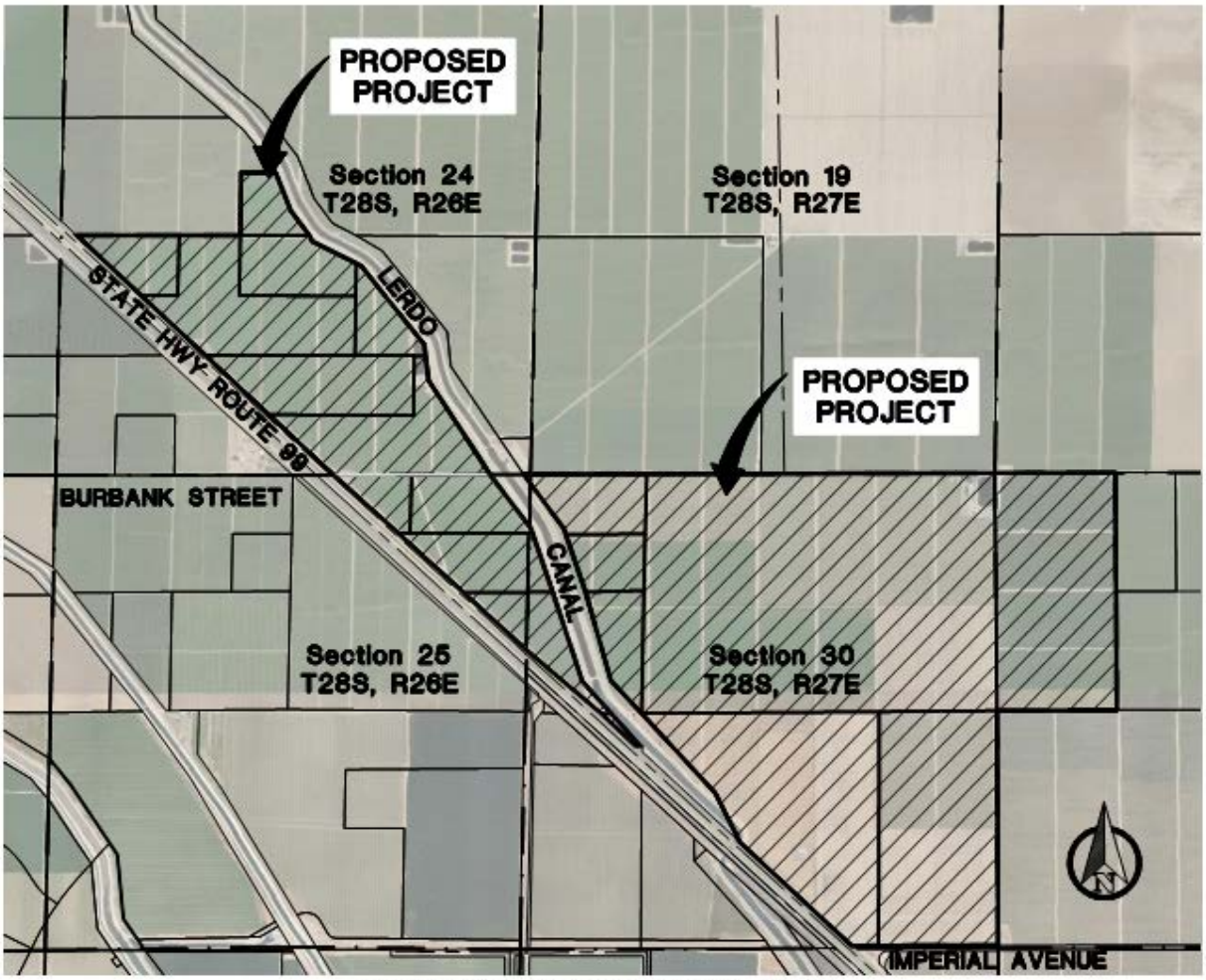
Source: Environmental Data Resources, Inc.

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2012

Figure G-12



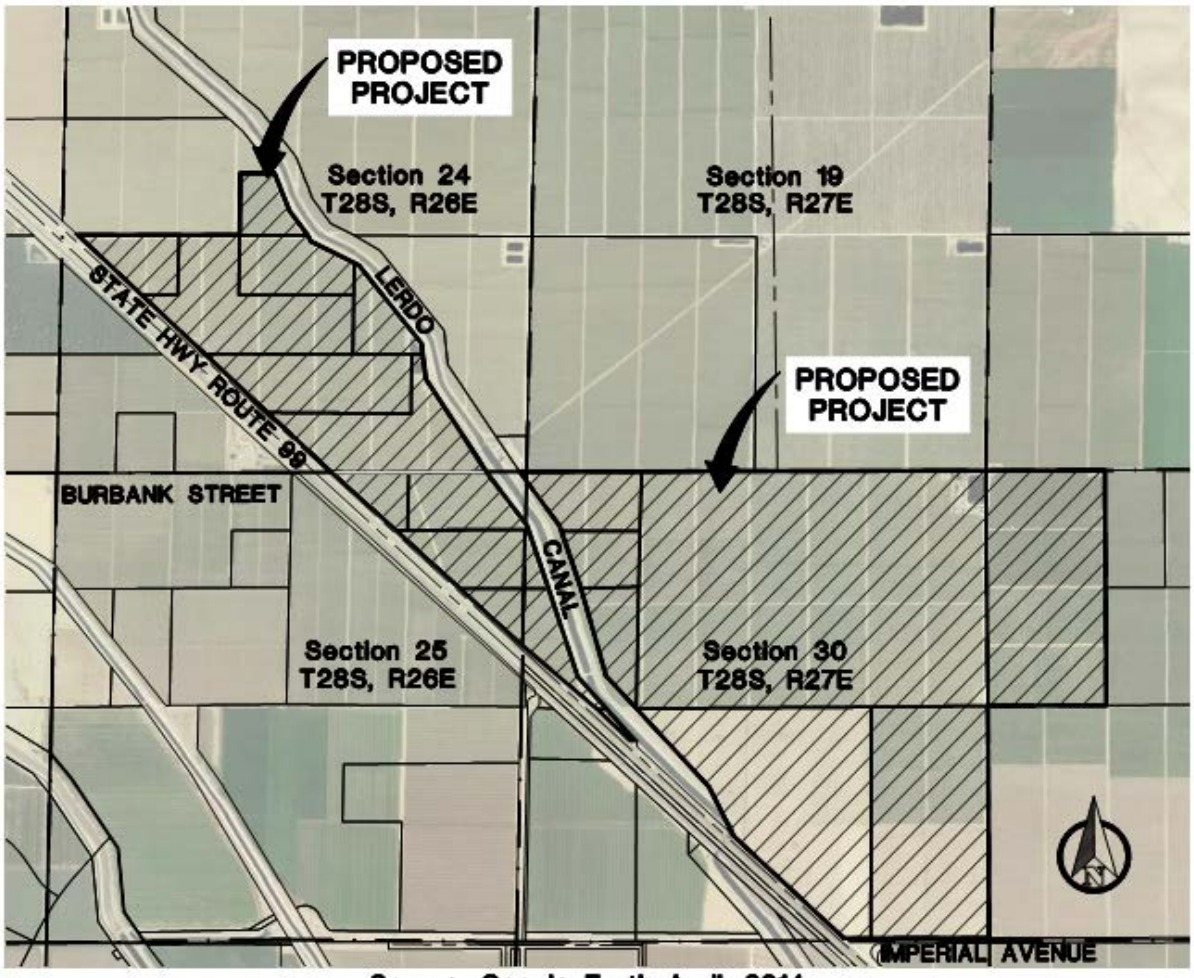
Source: Google Earth August, 2013

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2013

Figure G-13



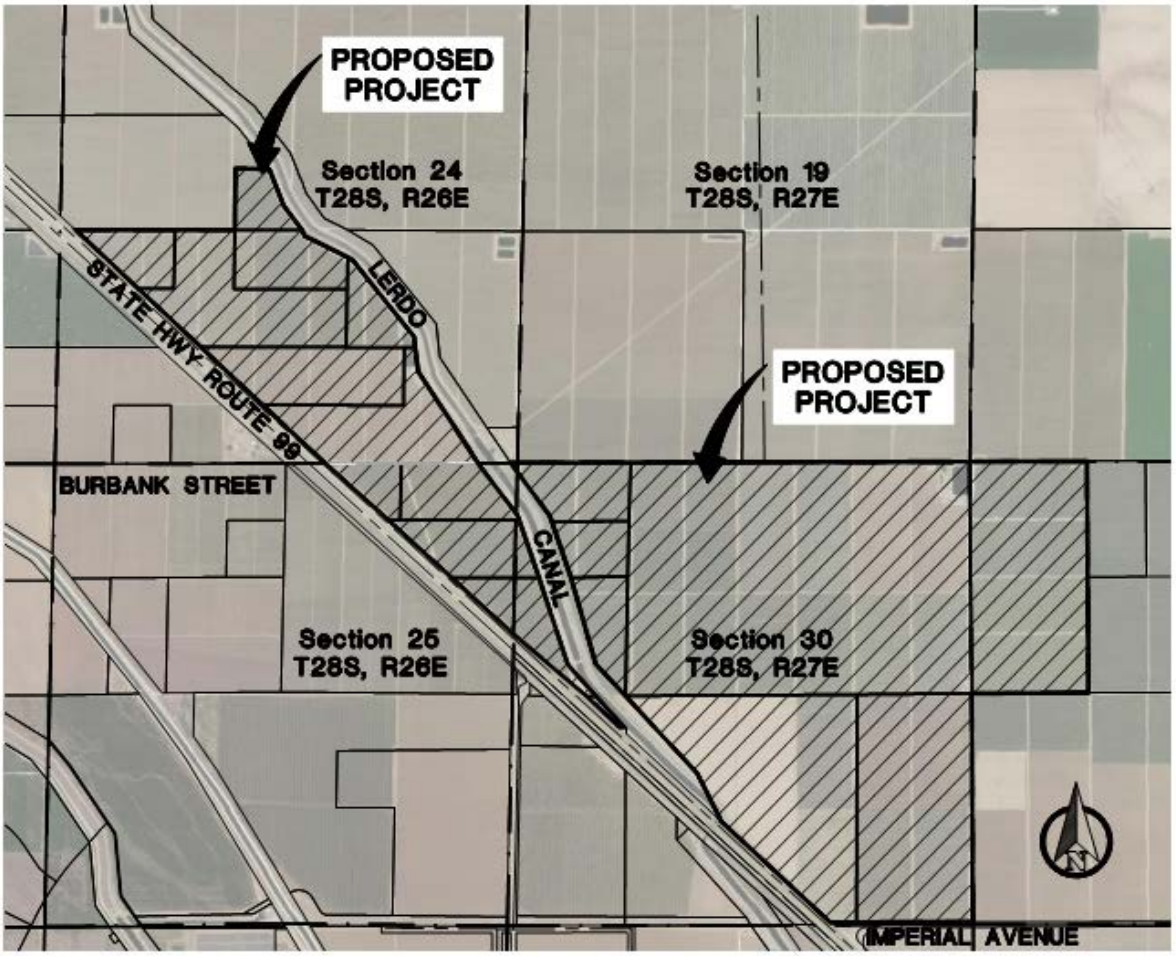
Source: Google Earth April, 2014

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2014

Figure G-14



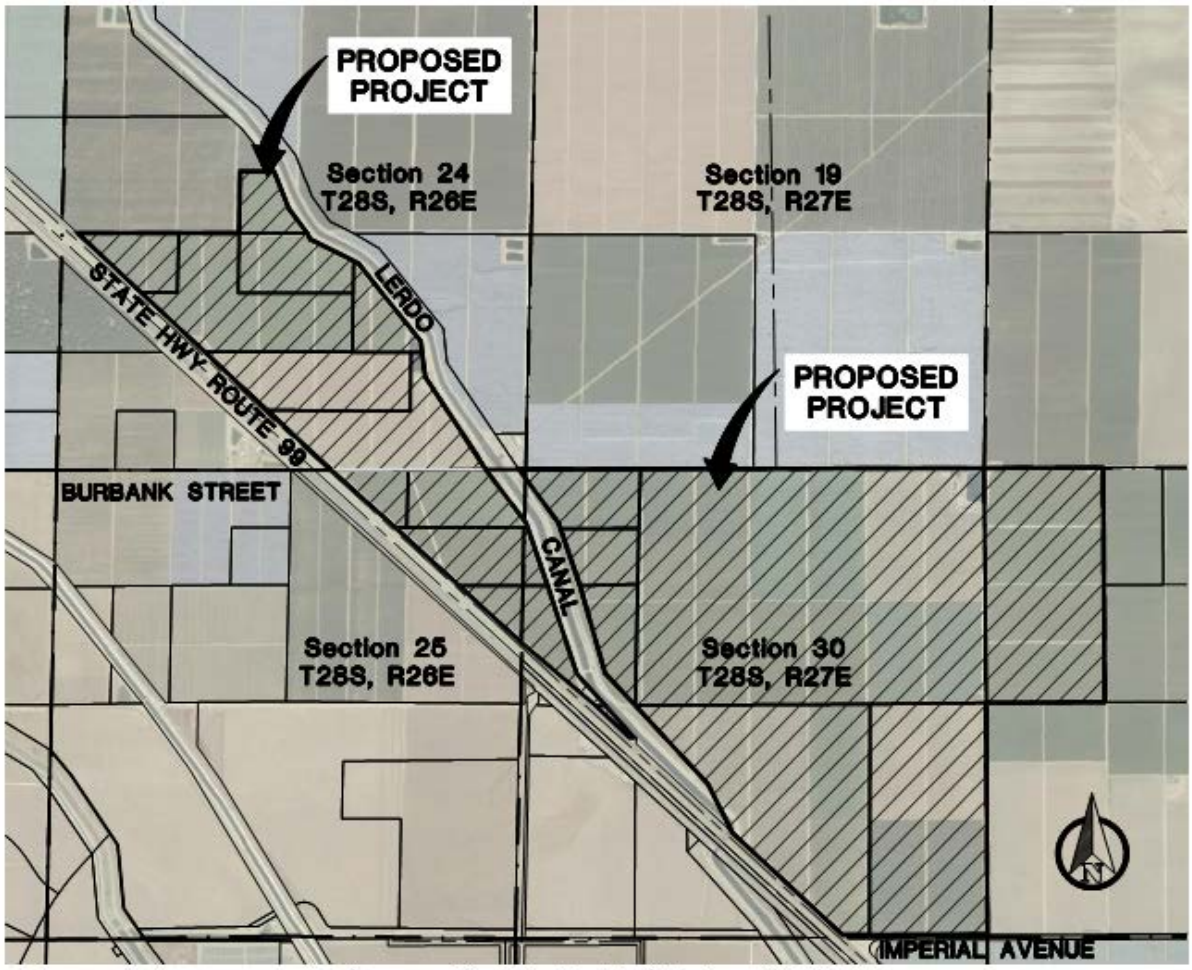
Source: Google Earth March, 2015

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2015

Figure G-15



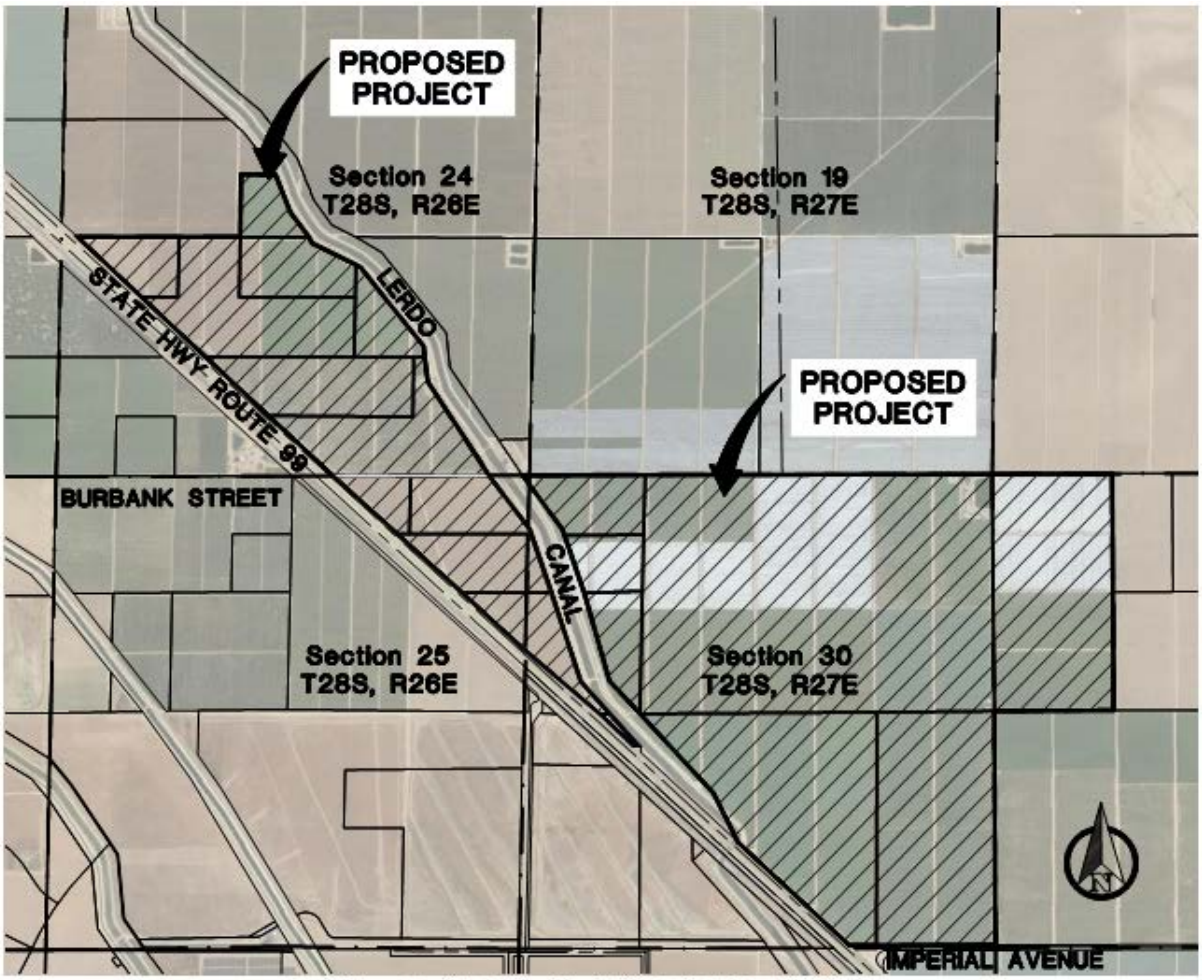
Source: Google Earth October, 2016

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2016

Figure G-16



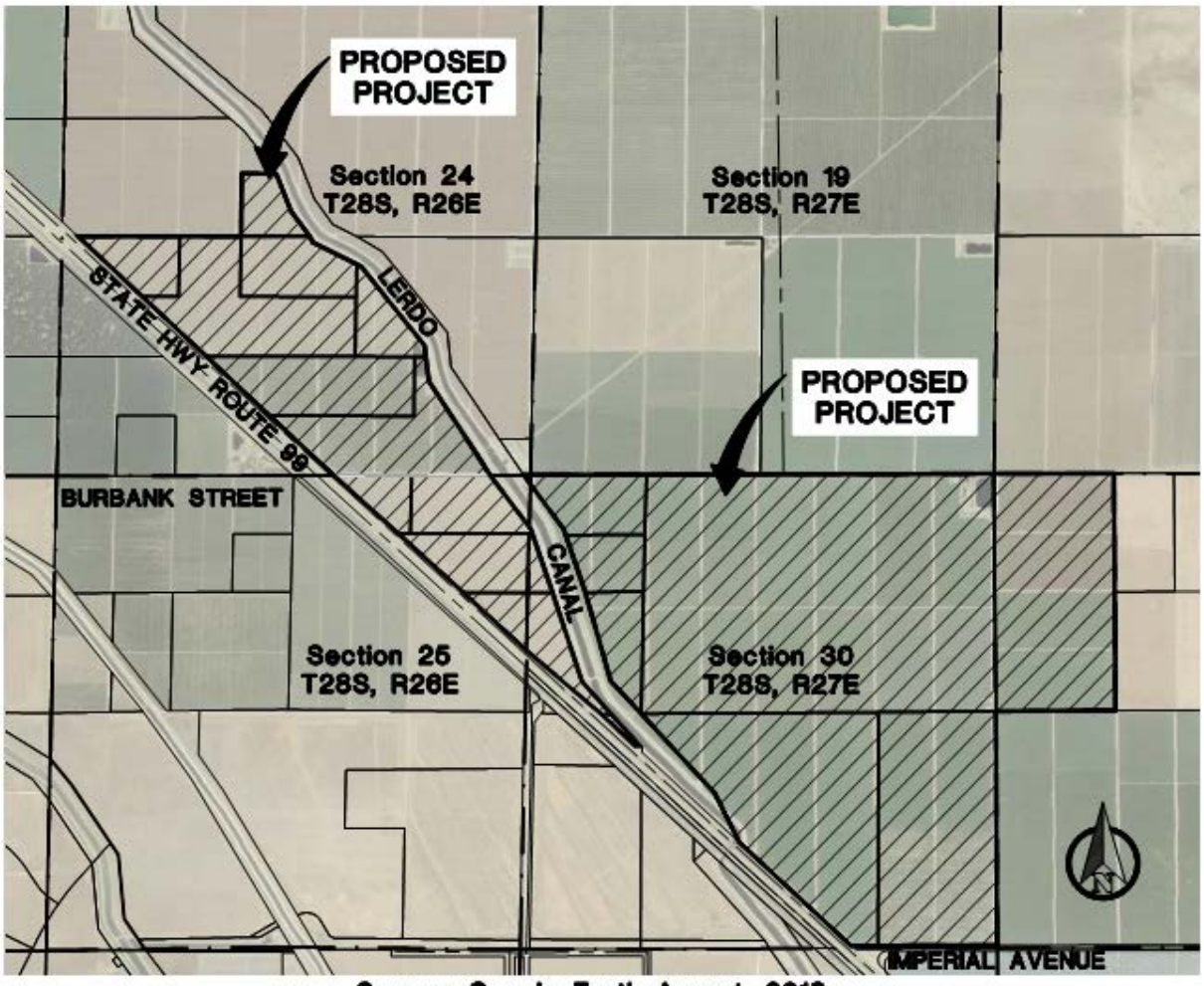
Source: Google Earth September, 2017

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2017

Figure G-17



Source: Google Earth August, 2018

PROPOSED PROJECT

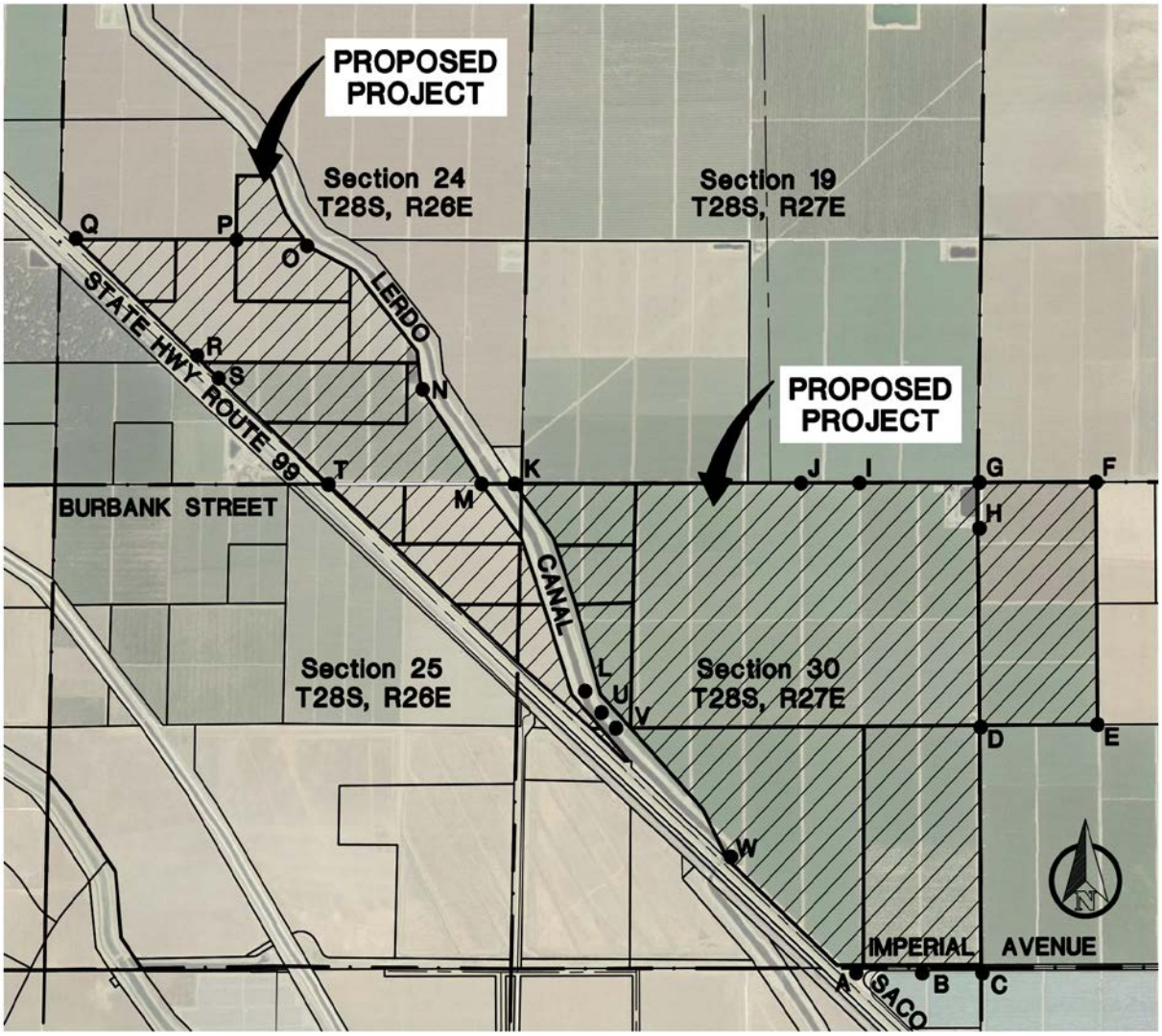
Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Aerial Photograph - 2018

Figure G-18

APPENDIX H

Figures



PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Proposed Project Photo Index

Figure H-1



IMAGE 1
LOOKING NORTH AT SACO RD. & IMPERIAL AVE



IMAGE 2
LOOKING SOUTH DOWN SACO RD.



IMAGE 3
LOOKING EAST DOWN IMPERIAL AVE.

Photo Index Point 'A'

Figure H-2



IMAGE 4 - LOOKING NORTH FROM IMPERIAL AVE.



IMAGE 5 - LOOKING WEST ALONG IMPERIAL AVE.



IMAGE 6 - LOOKING EAST ALONG IMPERIAL AVE.

Photo Index Point 'B'

Figure H-3



IMAGE 7 -LOOKING NORTH FROM IMPERIAL AVE.



IMAGE 8 - LOOKING WEST ALONG IMPERIAL AVE.



IMAGE 9 - LOOKING EAST ALONG IMPERIAL AVE.

Photo Index Point 'C'

Figure H-4



IMAGE 10 -LOOKING NORTH



IMAGE 11 - LOOKING SOUTH

Photo Index Point 'D'

Figure H-5



IMAGE 12 -LOOKING EAST



IMAGE 13 - LOOKING WEST

Photo Index Point 'D'

Figure H-5



IMAGE 14 -LOOKING NW, CONCRETE LOADING DOCK



IMAGE 15 – NW OF IMAGE 14, IRRIGATON PUMP

Photo Index Point 'D'

Figure H-5



IMAGE 16 -LOOKING NORTH



IMAGE 17 - LOOKING SOUTH

Photo Index Point 'E'

Figure H-6



IMAGE 18 -LOOKING EAST



IMAGE 19 - LOOKING WEST

Photo Index Point 'E'

Figure H-6



IMAGE 20 -LOOKING SOUTH



IMAGE 21 – LOOKING EAST



IMAGE 22 - LOOKING WEST

Photo Index Point 'E'

Figure H-6



IMAGE 23 -LOOKING SOUTHWEST, WATER STORAGE TANK & IRRIGATION PUMP



IMAGE 24 - LOOKING SOUTH, WEST OF IMAGE 23, IRRIGATION PUMP

Photo Index Point 'E'

Figure H-6



IMAGE 25 - LOOKING NORTH



IMAGE 26 – LOOKING SOUTH

Photo Index Point 'G'

Figure H-8



IMAGE 27 – LOOKING EAST



IMAGE 28 – LOOKING WEST

Photo Index Point 'G'

Figure H-8



IMAGE 29 – LOOKING SOUTHEAST, IRRIGATION POND

Photo Index Point 'G'

Figure H-8



IMAGE 30 - LOOKING NORTH



IMAGE 31 – LOOKING SOUTH

Photo Index Point 'H'

Figure H-9



IMAGE 32 – LOOKING WEST



IMAGE 33 – LOOKING WEST, WATER STORAGE & SILO

Photo Index Point 'H'

Figure H-9



IMAGE 34 – LOOKING NORTHWEST, IRRIGATION FILTER SYSTEM



IMAGE 35 – LOOKING WEST-SOUTHWEST, METAL SHOP

Photo Index Point 'H'

Figure H-9



IMAGE 36 – LOOKING WEST, WEST OF IMAGE 35
HAZARDOUS CHEMICAL STORAGE UNIT



IMAGE 37 – LOOKING NORTHWEST, NORTH OF IMAGE 36
WOOD & METAL AG REPAIR SHOP

Photo Index Point 'H'

Figure H-9



IMAGE 38 – LOOKING NORTH, NORTH OF IMAGE 37
WOOD OFFICE BUILDING



IMAGE 39 – LOOKING NORTH
AG STORAGE YARD

Photo Index Point 'H'

Figure H-9



IMAGE 40 – LOOKING EAST, ACROSS FROM IMAGE 38
UNLEADED FUEL STORAGE TANK



IMAGE 41 – LOOKING EAST, STANDING SOUTH OF IMAGE 41
PROPANE STORAGE TANK

Photo Index Point 'H'

Figure H-9



IMAGE 42 – LOOKING WEST, NORTH OF IMAGE 38
WOOD SHADE PARKING STRUCTURE



IMAGE 43 – LOOKING EAST, WEST OF IMAGE 43
SEWER SEPTIC MANHOLES & ABANDONED WELL PAD

Photo Index Point 'H'

Figure H-9



IMAGE 44 - LOOKING SOUTH, IRRIGATION RISER

Photo Index Point 'I'

Figure H-10



IMAGE 45 - LOOKING SOUTH, IRRIGATION PUMP & STANDPIPE

Photo Index Point 'J'

Figure H-11



IMAGE 46 - LOOKING NORTH



IMAGE 47 – LOOKING SOUTH

Photo Index Point 'K'

Figure H-12



IMAGE 48 – LOOKING EAST



IMAGE 49 – LOOKING WEST

Photo Index Point 'K'

Figure H-12



IMAGE 50 – LOOKING SOUTHWEST, IRRIGATION PUMP & ELECTRICAL PANEL



IMAGE 51 – LOOKING NORTHWEST, CAWELO PUMP STATION 'B'

Photo Index Point 'K'

Figure H-12



IMAGE 52 – LOOKING NORTH



IMAGE 53 – LOOKING SOUTH

Photo Index Point 'L'

Figure H-13



IMAGE 54 – LOOKING EAST



IMAGE 55 – LOOKING WEST

Photo Index Point 'L'

Figure H-13



IMAGE 56 – LOOKING NORTH



IMAGE 57 – LOOKING SOUTH



IMAGE 58 – LOOKING WEST

Photo Index Point 'M'

Figure H-14



IMAGE 59 – LOOKING NORTH



IMAGE 60 – LOOKING SOUTH

Photo Index Point 'N'

Figure H-15



**IMAGE 61 – LOOKING WEST, IRRIGATION PUMP,
COVERED CONCRETE LOADING DOCK & ELECTRICAL PANEL**



**IMAGE 62 – LOOKING NORTHWEST, NORTH OF IMAGE 61,
IRRIGATION FILTRATION SYSTEM**

Photo Index Point 'N'

Figure H-15



IMAGE 63 – LOOKING NORTHWEST, NORTH OF IMAGE 62, IRRIGATION STORAGE POND

Photo Index Point 'N'

Figure H-15



IMAGE 64 – LOOKING EAST, ELECTRICAL TRANSFORMER



IMAGE 65 – LOOKING EAST, NORTH OF IMAGE 64

Photo Index Point 'O'

Figure H-16



IMAGE 66 – LOOKING NORTH



IMAGE 67 – LOOKING SOUTH

Photo Index Point 'P'

Figure H-17



IMAGE 68 – LOOKING EAST



IMAGE 69 – LOOKING WEST, IRRIGATION STANDPIPE

Photo Index Point 'P'

Figure H-17



IMAGE 70 – LOOKING NORTHWEST ALONG HWY 99



IMAGE 71 – LOOKING SOUTHEAST ALONG HWY 99

Photo Index Point 'Q'

Figure H-18



IMAGE 72 – LOOKING EAST

Photo Index Point 'Q'

Figure H-18



IMAGE 73 – LOOKING SOUTHEAST, DRAINAGE POND

Photo Index Point 'R'

Figure H-19



IMAGE 74 – LOOKING NORTHWEST, DRAINAGE POND



IMAGE 75 – LOOKING EAST

Photo Index Point 'S'

Figure H-20



IMAGE 76 – LOOKING SOUTHEAST, DRAINAGE POND

Photo Index Point 'T'

Figure H-21



IMAGE 77 – LOOKING EAST, NON-POTABLE WATER CONTROL VALVE

Photo Index Point 'U'

Figure H-22



IMAGE 78 – LOOKING WEST, IRRIGATION PUMP & PIPELINE

Photo Index Point 'V'

Figure H-23



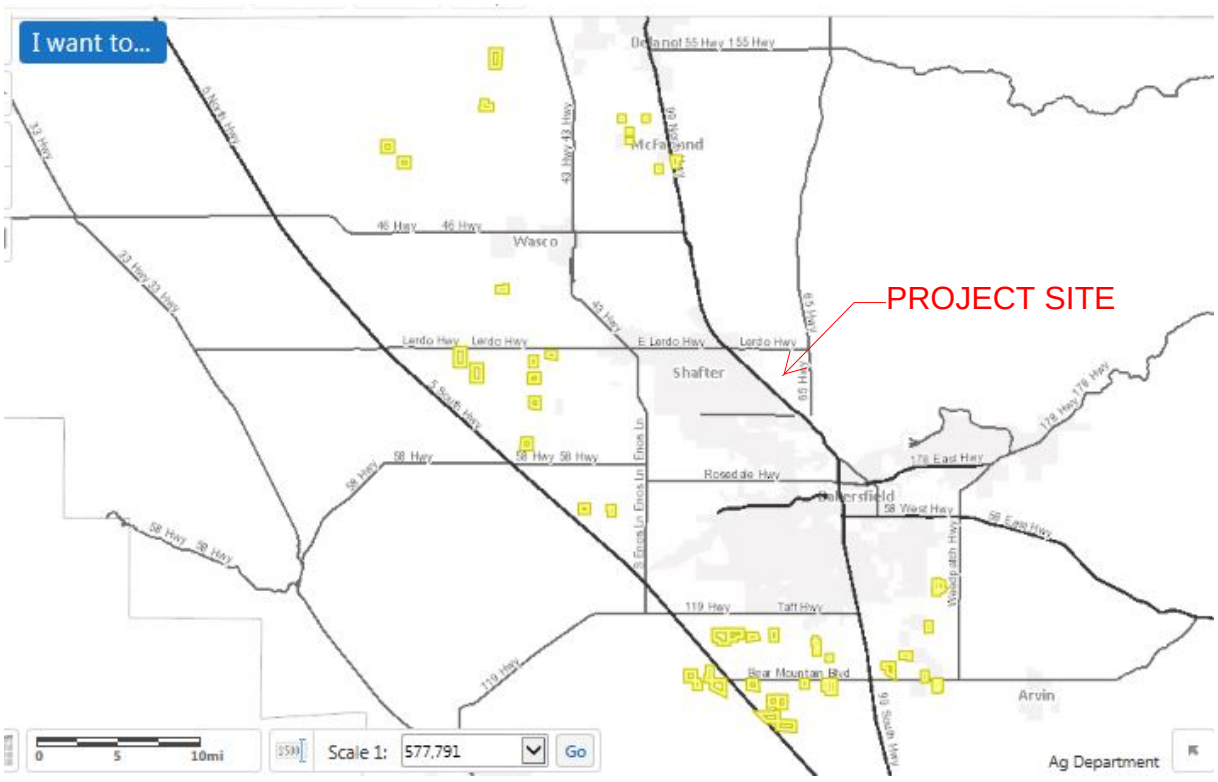
IMAGE 79 – LOOKING WEST, CULVERT CROSSING HWY 99 (CURRENTLY UNDERGOING REPAIRS)

Photo Index Point 'W'

Figure H-24

APPENDIX I

Figures



Kern County GIS Dairy Locations 2020

PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Dairy Location Map

Figure I-1

Kern County Dairy List

Existing Dairies (existing or under construction)

	Dairy Name	Location & Zone Map	Herd Size[1]	Mailing Address
1**	Affentranger & Sons Marie Affentranger & Sons	Sec. 8 T.29S.R.25E. (Zone Map 100) 18107 Kratzmeyer Rd.	1100 milk cows NO CUP - Predates zoning	18107 Kratzmeyer Bakersfield, CA 93312
2	AJB Ranch AJ Boss & John Boss	Sec. 32,T.29S.R.25E. (Zone Map 100) 28724 Stockdale Highway	3400 milk cows CUP 25 Map 100	100908 Ramsgate Bakersfield, CA 93311
3	Devries #3	Sec. 3, T.26S.R.25E. (Zone Map 33) 30586 Elmo Highway	930 milk cows CUP 2 Map 33	11265 Paulsen Way Bakersfield
4**	Ansonea Dairy (Echeverria Bros)	Sec. 2 T.31S.,R.28E. (Zone Map 143) 5250 Digorgio Road, Arvin	1500 milk cows NO CUP - Predates zoning	8762 Kimball Avenue Chino, CA 91710
5	Bear Mountain Dairies Ramon & Eduardo Echeverria	Sec. 26 T.31S.R.27E. (Zone Map 142) 4551 Bear Mountain Blvd.	2100 milk cows CUP 35 Map 142	8762 Kimball Avenue Chino, CA 91710
6**	Cardoza Dairy Franklin Cardoza	Sec. 4 T.26S., R.25E. (Zone Map 33) 12421 Melcher Rd., McFarland	380 milk cows NO CUP-Predates zoning	12421 Melcher Road McFarland, CA. 93250
7**	T & J Dairy (John Weistheim) *(Old Tjarda Dairy)*	Sec. 26 T.30S., R.28E. (Zone Map 124) 6219 East Panama Lane	1200 milk cows NO CUP - Predates zoning	14500 Chander Corona, CA 91720
8	H & P Dairy David Haagsma & Jack Pinheiro	Sec. 26 T.31S.R.27E. (Zone Map 143) 5021 E. Bear Mtn. Blvd.	1050 milk cows CUP 22 Map 143	5021 E. Bear Mtn. Blvd. Bakersfield, CA 93307
9**	T & W Dairy Brian Wynn/Maynard Troost	Sec. 13, T.31S.R.27E. (Zone Map 142) 5961 Houghton Road	720 milk cows NO CUP-Predates zoning	5962 Houghton Road Bakersfield, CA 93313
10	Peter De Boer Dairy #2. Peter De Boer	Sec. 26 T.30S., R.28E. (Zone Map 124) 7524 S. Fairfax Road	1600 milk cows CUP 32 Map 124	7524 S. Fairfax Rd. Bakersfield, CA 93307
11	J & R Dairy Javier Echeverria	Sec. 26 T.31S.R.27E. (Zone Map 142) 4403 Bear Mtn. Blvd.	2100 milk cows CUP 34 Map 142	4403 Bear Mtn. Blvd. Bakersfield, CA 93313

[1]Note: Herd size does not include support stock

** Designates dairy which predates zoning
* Designates dairy approved under "by right" provision

12**	Kootstra Dairy Dewey Kootstra	Sec. 16 T.31S.,R.28E. (Zone Map 143) 13628 Adobe Rd.	1650 milk cows NO CUP-Predates zoning	13628 Adobe Rd. Bakersfield, CA 93307
13**	Larsen_s Dairyland Norm Larsen	Sec. 33 T.29S.R.25E. (Zone Map 100) 25820 Stockdale Highway	970 milk cows NO CUP-Predates zoning	4949 Buckley Way, Suite 108 Bakersfield, CA 93309
14**	O & L Dairy	Sec. 10 T.26S., R.25E. (Zone Map 33) Heit Avenue, McFarland	560 milk cows NO CUP - predates zoning	Rt. 1 Box 238 McFarland, CA 93250
15**	McFarland Dairy Wes Verhoeven	Sec. 25 T.25S., R.25E. (Zone Map 33) 31348 Hanawalt Ave.	520 milk cows NO CUP	31348 Hanawalt Ave. McFarland, CA 93250
16**	O & L Dairy #3 *(Old Menodsa Dairy)*	Sec. 2 T.25S. R.25E. (Zone Map 33) w/ of Garzoli on Peterson	700 milk cows NO CUP - predates zoning	12750 Avenue 160 Tipton, CA 93272
17	Oasis Holsteins Pete DeJohn	Sec. 14 T.28S., R.24E. (Zone Map 78) 18041 Palm Avenue	1530 milk cows CUP 5 Map 78	18041 Palm Avenue Shafter, CA 93263
18**	Palla Rosa Dairy #1 Livio Palla	Sec. 10 T.31S. R.27E. (Zone Map 142) 4921 Houghton Rd	830 milk cows NO CUP - predates zoning	4921 Houghton Rd. Bakersfield, CA 93313
19**	Palla Rosa Dairy #2 Livio Palla	Sec. 22 T.31S. R.27E. (Zone Map 142) 4714 E. Bear Mtn. Blvd.	920 milk cows NO CUP - predates zoning	6404 Shafter Road Bakersfield, CA 93313
20	Palla Rosa Dairy #3 Livio Palla	Sec. 25 T.31S. R.26E. (Zone Map 141)	2200 milk cows CUP 5 Map 141	4921 Houghton Rd. Bakersfield, CA 93313
21	Petrissans Dairy Petrissans Brothers	Sec. 27 T.31S. R.27E. (Zone Map 142) 5111 Bear Mtn. Blvd.	1000 milk cows Map 142	3404 Sierra Meadows Bakersfield, CA 93313
22	Jer=Z-Boys II	Sec. 27, T.25S. R.25E. (Zone Map 9) 11699 Stradley Road McFarland	1000 milk cows CUP 1 Map 9	2412 Avenue 360 Kingsburg, CA 93631
23**	Riverbend Dairy Lance Mouw	Sec. 12 T.31 S. R.26E. (Zone Map 141) 11663 Buena Vista Rd.	2700 milk cows NO CUP - predates zoning	11663 Buena Vista Rd. Bakersfield, CA 93311
24	Ralph Te Velde Dairy Ralph & Carolyn TeValde	Sec. 28S. T.31S. R.27E. (Zone Map 142) 6921 Bear Mtn. Blvd.	1150 milk cows CUP 26 Map 142	5921 Bear Mtn. Blvd. Bakersfield, CA 93309
25**	Reyneveld Dairy Bill Reyneveld	Sec. 33 T.32S. R.29E. (Zone Map 162) 26101 Edison Rd.	800 milk cows NO CUP - predates zoning	26101 Edison Rd. Arvin, CA 93203

** Designates dairy which predates zoning
* Designates dairy approved under “by right” provision

26	Wasco Dairy Harvey Boschma	Sec. 7 T.26S., R.23E (APN 059-050-19) (Map 31) NW Corner McCoy & Sherwood	4785 milk cows NO CUP - predates zoning	13350 Haven Ontario, CA 91761
27	Richmar Farms Dairy	Sec. 26 T.31S. R.28E. (Zone Map 143) 5259 E. Bear Mtn. Blvd.	1500 milk cows Cup 22 Map 143	6848 Archibald Street Corona, CA 91720
28	Richmar Farms (New) Rich Tillema	Sec. 20 T.31S. R28E. (Zone Map 143) NE Corn. So Union & Bear Mtn.	2400 milk cows CUP 32 Map 143	6848 Archibald, Street Corona, CA 91720
29	Miersma Dairy *(Old Rodney Palla Farms)*	Sec. 26 T.30S R.28E (Zone Map 124) 5829 East Panama Lane	1700 milk cows No CUP - Predates zoning	5829 E. Panama Bakersfield, CA 93307
30**	V B Dairy Jes Visser & Sons	Sec. 18, T.26S., R.26E. (Zone Map 34)Taylor Avenue, McFarland (APN 201-200-10)	2200 milk cows NO CUP - predates zoning	Rt. 1 Box 168 McFarland, CA 93260
31**	Skyview Dairy Brian VanderPoel	Sec. 14 T.31S. R.27E. (Zone Map 142) 13714 Stine Road	900 milk cows NO CUP-"by right"	13714 Stine Rd. Bakersfield, CA 93313
32	Wilgenburg Dairy Ed Wilgenburg	Sec. 7, T.31S. R.26E. (Zone Map 141) 11701 Old River Rd.	2750 milk cows CUP 27 Map 142	11701 Old River Road Bakersfield, CA 93311
33	Maple Farms Dairy John Bos	Sec. 27 T.31S. R.26E. (Zone Map 141) S/si. Bear Mountain W/I-5	6000 milk cows CUP 9 Map 141	10908 Ramsgate Bakersfield, CA 93311
34	Goyenetche Dairy	Sec. 10, T.29S. R.24E. (Zone Map 99) Brandt & Sullivan	2600milk cows CUP 12, Map 99	11265 Paulsen Way Bakersfield, CA 93312
35	Newhouse Dairy Rodney Palla	Sec. 21 T.31S., R.26E. (Zone Map 141) N/si. Bear Mtn. Blvd. W/I-5	3200 milk cows CUP 7 Map 141	16130 Bear Mountain Blvd. Bakersfield 93311
36*	Tjaarda Dairy Perry Tjaarda	NE/4 Sec. 34, T.28S. R.24E. (Zone Map 78) W/si. Magnolia 1/2 mil n/Seventh Standard	2700 milk cows NO CUP - "By right"	19087 Magnolia Avenue Shafter, CA 93263
37*	Lewis Aukeman Lewis Aukeman	Sec. 15, T.28S., R.24E (Zone Map 78) NW Corner Riverside & Magnolia	2200 milk cows NO CUP-"by right"	12391 Schliesman Mira Loma, CA 91752
38*	Candido Costa Inland Empire Calf Company	Sec. 31 T.25S. R.24E. (Zone Map 8) SW corner Pond & Jumper	2300 milk cows NO CUP-"by right"	7316 Schaeffer Chino, CA 91719

** Designates dairy which predates zoning
* Designates dairy approved under "by right" provision

Kern County Planning Department
Dairy List - Rev 11/15/05

39* Whiteside Dairy (New) Jon VanderPoel	Sec. T.27S. R.24E. (Zone Map 55) S/Si. Schofield 1300' S/Kimberlina	1584 milk cows NO CUP-"by right"	16461 Scofield Wasco, CA.
40 Vermeer & Goedhart 088-160-15	Sec. 22 T28S R.24E (Zone Map 78) NW corner Burbank & Magnolia	3000 milk cows NO CUP-"by right"	Accomodators, Inc.
41 Western Sky Dairy	Sc. 31 T.31S R.27E. (Zone Map 141) NW Corner Millux & Old River	4500 milk cows CUP 47 Map 141	George Plangenga 6500 Hamner Ave Corona CA 91720
42 Poso Creek Family Dairy LLC 059-130-06	Sec. 17 T.26S. R.23E (Zone Map 31) Hanawalt Ave _ mi. W/of GunClubRd	4275 milk cows NO CUP-"by right"	Peter Bouma 99 North Tower Square Tulare, CA 93274
44* J & R Dairy 087-120-08	Sec. 24 T.28S. R.23E. (Zone Map 77) SW Corner Riverside & Wildwood	3400 milk cows NO CUP-"by right"	Javier Echeveria 8762 Kimball Ave. Chino CA 91710
45* West Star Dairy 088-170-13	Sec. 19 T.28S. R.24E. (Zone Map 78) SE Corner Riverside & Wildwood	4352 milk cows NO CUP-"by right"	Ben Slegers 10401 Riverside; Ontario CA 91761
46* CarlosEtcheverria&SonsDairy 295-080-22	Sec. 6 T.32S. R.27E. (Zone Map 160) W/si. Old River N/Herring	4320 milk cows NO CUP-"by right"	Felix Echeverria 14320 Cleveland Ave. Ontario, CA 91761
47* JDS Ranch	W/2 Sec. 17, T.25S.R.24E. (Zone Map 8) SE Corner Garces & Jumper	3822 milk cows NO CUP-"by right"	Harry Samarin 6225 Ridgetop Terrrace, Bakersfield 93306
48 Palla Rosa B.V. Dairy Dairy #2	Sec. 28 T.31S. R.26E (Zone Map 141) S/si. Bear Mtn.	3500 milk cows CUP 7 Map 141	Rodney Palla 6404 Shafter Rd. Bakersfield 93313
49 T & W Farms	Section 32, T.31S., R.27E. (Zone Map 142)	4000 milk cows CUP 48, Map 142	T & W Farms 8545 Pine Ave. Chino, CA 91710
50 James Borba	Sec. 10 T.31S. R.26E. (Zone Map 141) S/si. 119 E/si I-5	7000 milk cows CUP 13 Map141	Joseph & Doleen Borba 2339 N. Euclid Upland, CA 91784
51 George Borba	Sec. 2 T.31S. R.26E. (Zone Map 141) S/si. 119 1/mi. W/Buena Vista	7000 milk cows CUP 13 Map 141	George Borba and Son Dairy 7955 Eucalyptus Ave. Chino, CA 91710
52* Southern Cross Dairy 087-090-03	Sec. 13 T.28S.R.23E (Zone Map 77) Lerdo Hwy - 1 mi/E of Rowlee Rd.	6000 milk NO CUP-"by right"	George De Boer 9155 Riverside Drive; Ontario, CA 91761

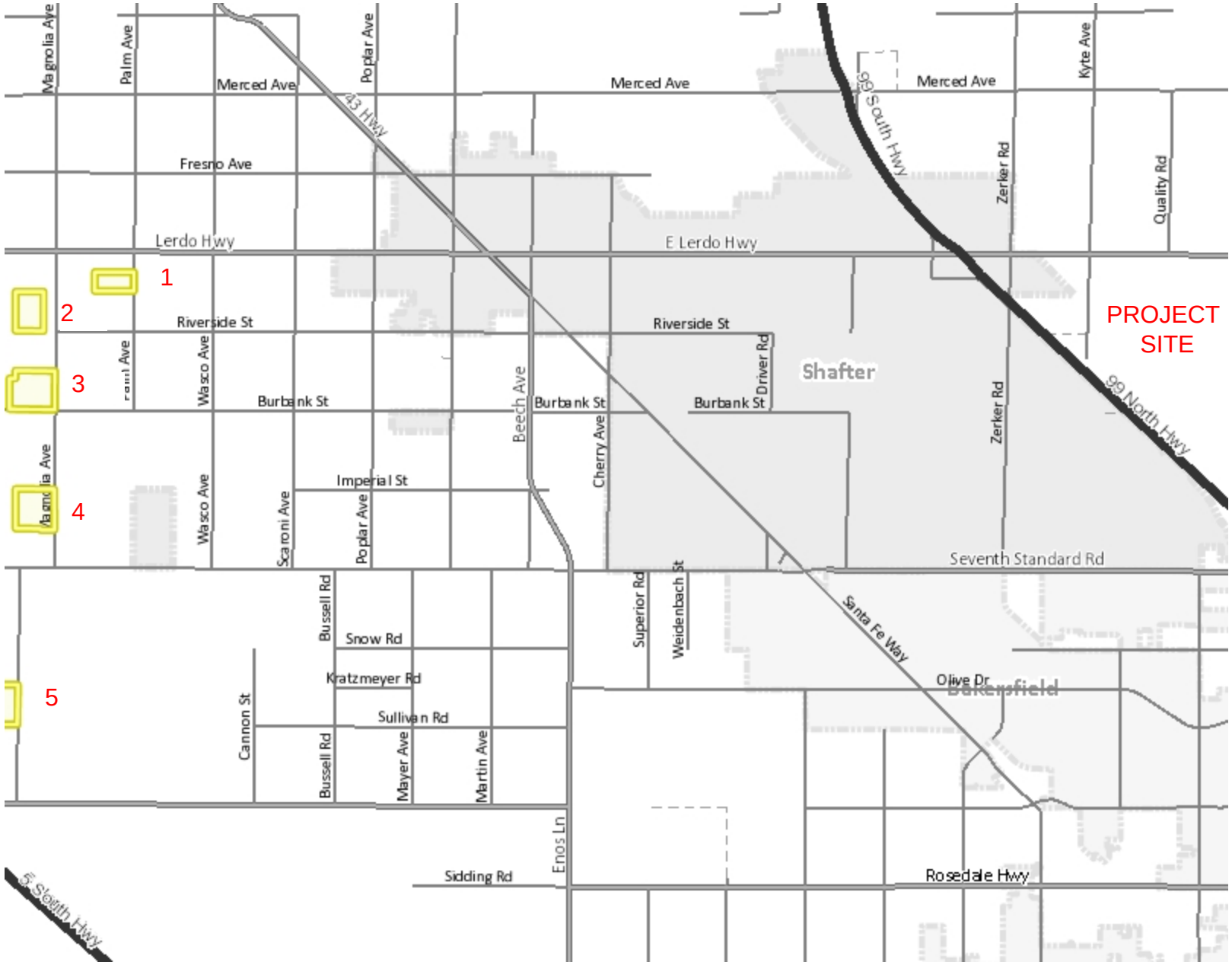
** Designates dairy which predates zoning
* Designates dairy approved under "by right" provision

53 Lakeview Dairy Dairy #3	Sec. 20 T.31S. R.26E (Zone Map 141) S/si. Bear Mtn.	3500 milk cows CUP 7 Map 141	Rodney Palla 6404 Shafter Rd. Bakersfield 93313
54 Bidart Dairy Michael Bidart	S/2 Sec. 5, T.32S., R.27E. (Zone Map 159) E/si Old River, South of Millux	7000 milk cows "By right"	Michael Bidart 640 Indian Hills Blvd., Claremont, CA 91711
55* J.G. Boswell 220-120-26	Sec. 16 T.32S. R.25E (Zone Map 158) 1 mi. n/Southlake Rd.	2400 milk cows NO CUP-"by right"	JG Boswell 101 W. Walnut - Pasadena CA 91103
56 Rodney Palla Farms Dairy #4	S/si. Bear Mtn (Zone Map 141) .Sec. 19 T.31S. R.26E	3500 milk cows CUP 7 Map 141	Rodney Palla 6404 Shafter Rd. Bakersfield 93313
57 Vanderham Dairy Corrie & Rick Vanderham	Sec. 24, T.28S., R.24E. (Zone Map 78)	1500+ milk cows CUP 9 Map 78 - **In litigation**	Rick Vanderham 4860 Wineville Mira Loma, CA 91752
58 Solo Farms	Sec. 20 T.25S. R.24E (Zone Map 8) SE Corner Garces & Wildwood	3822 milk cows NO CUP-"by right"	Harry Samarin 6225 Ridgetop Terrrace, Bakersfield 93306
59. Petrissans Dairy- Map 142 184-450-56	South of Bear Mtn. Blvd, 1/2 mi. west of Stine Rd. E/2 of the NW/4 of Sec. 27, T31S, R27E	1585 milk 3100 total CUP 50 Map 142	George & Marie Petrissans 3404 Sierra Meadow, BFL 93313

** Designates dairy which predates zoning
* Designates dairy approved under "by right" provision

Kern County
Online Mapping System

Existing Dairy Locations Near Project Site





Legend

Roads>100k-250k

- Freeway
- Highway
- Major
- Unpaved

County

City Incorporated 100k

- CITIES
- CITY OF BAKERSFIELD

1: 144,448

4.6 0 2.28 4.6 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

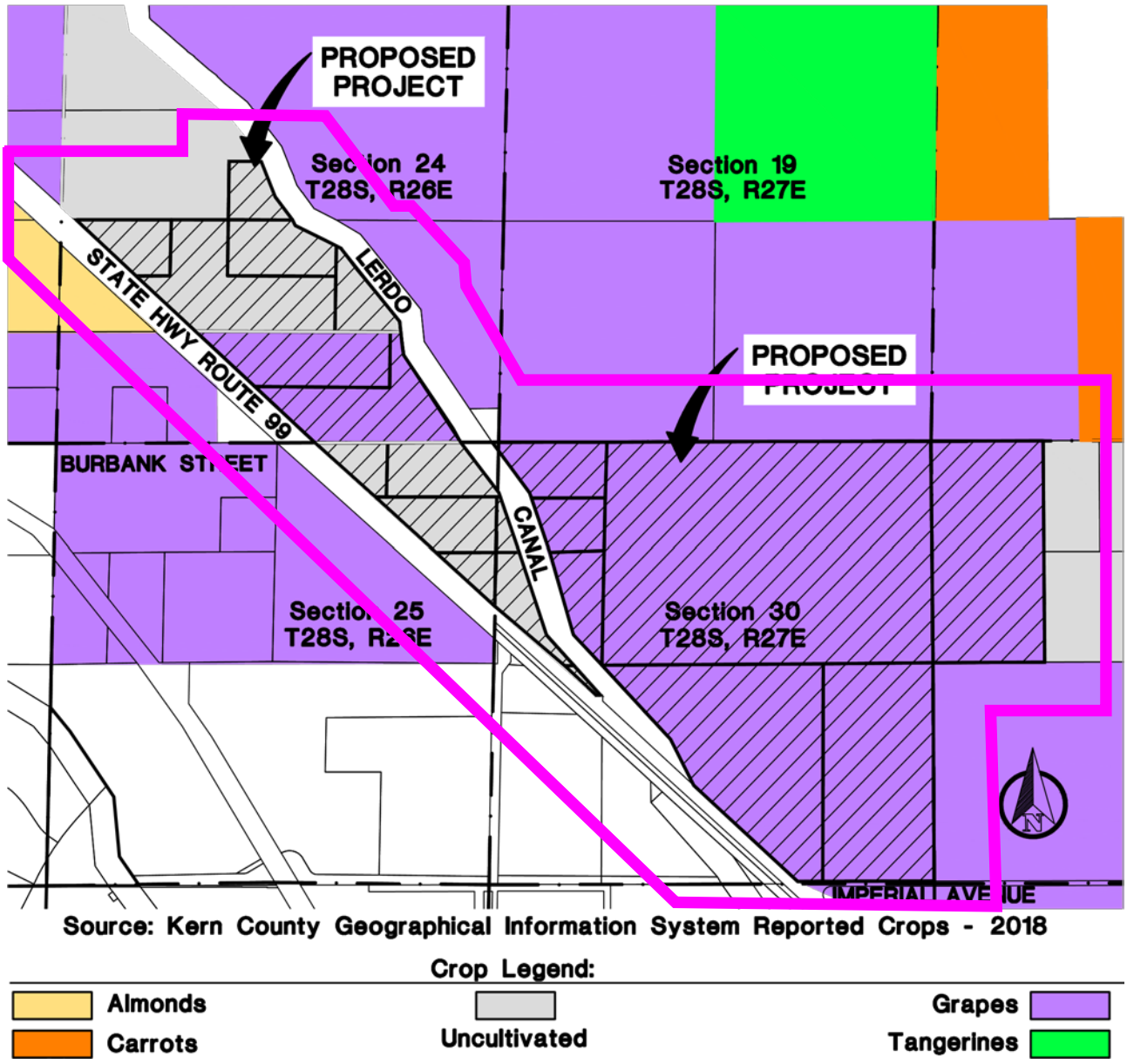
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Notes

APPENDIX J

Figures



PROPOSED PROJECT

Portions of Sections 24 & 25, Township 28 South, Range26 East &
Portions of Sections 29 & 30, Township 28 South, Range 27 East
County of Kern, State of California

Zone of Influence Boundary Map

Figure J-1

TABLE 8
FINAL LESA SCORESHEET

Factor Name	Factor Rating (0-100 Points)	Factor Weighting (Total=1.0)	Weighted Factor Rating
LAND EVALUATION			
Land Capability Classification	85.90	0.50	42.95
Storie Index Rating	-	-	-
SITE ASSESSMENT			
Project Size	100.00	0.15	15.00
Water Resource Availability	100.00	0.15	15.00
Surrounding Agricultural Lands	90.00	0.15	13.50
Protected Resource Lands	20.00	0.05	1.00
		Total LESA Score	87.45

TABLE 9
California LESA Model Scoring Thresholds

Total LESA Score	Scoring Decision
0 to 39 points	not considered significant
40 to 59 points	considered significant ONLY if LE AND SA subscore are each greater than or equal to 20 points
60 to 79 points	considered significant UNLESS either LE OR SA subscore is LESS than 20 points
80 to 100 points	considered significant

CALIFORNIA AGRICULTURAL

LAND EVALUATION AND SITE ASSESSMENT MODEL

Instruction Manual



For further information, please contact:

California Department of Conservation
Office of Land Conservation
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CALIFORNIA AGRICULTURAL

LAND EVALUATION AND SITE ASSESSMENT MODEL

Instruction Manual
1997

Department of Conservation
Office of Land Conservation

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EXECUTIVE SUMMARY

Land Evaluation and Site Assessment (LESA) is a term used to define an approach for rating the relative quality of land resources based upon specific measurable features. The formulation of a California Agricultural LESA Model is the result of Senate Bill 850 (Chapter 812 /1993), which charges the Resources Agency, in consultation with the Governor's Office of Planning and Research, with developing an amendment to Appendix G of the California Environmental Quality Act (CEQA) Guidelines concerning agricultural lands. Such an amendment is intended "to provide lead agencies with an optional methodology to ensure that significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process" (Public Resources Code Section 21095).

The California Agricultural LESA Model is composed of six different factors. Two Land Evaluation factors are based upon measures of soil resource quality. Four Site Assessment factors provide measures of a given project's size, water resource availability, surrounding agricultural lands, and surrounding protected resource lands. For a given project, each of these factors is separately rated on a 100 point scale. The factors are then weighted relative to one another and combined, resulting in a single numeric score for a given project, with a maximum attainable score of 100 points. It is this project score that becomes the basis for making a determination of a project's potential significance, based upon a range of established scoring thresholds. This Manual provides detailed instructions on how to utilize the California LESA Model, and includes worksheets for applying the Model to specific projects.

INTRODUCTION

Defining the LESA System

The Land Evaluation and Site Assessment (LESA) system is a point-based approach that is generally used for rating the relative value of agricultural land resources. In basic terms, a given LESA model is created by defining and measuring two separate sets of factors. The first set, Land Evaluation, includes factors that measure the inherent soil-based qualities of land as they relate to agricultural suitability. The second set, Site Assessment, includes factors that are intended to measure social, economic, and geographic attributes that also contribute to the overall value of agricultural land. While this dual rating approach is common to all LESA models, the individual land evaluation and site assessment factors that are ultimately utilized and measured can vary considerably, and can be selected to meet the local or regional needs and conditions for which a LESA model is being designed to address. In short, the LESA methodology lends itself well to adaptation and customization in individual states and localities. Considerable additional information on LESA may be found in *A Decade with LESA - the Evolution of Land Evaluation and Site Assessment* (8).

Background on LESA Nationwide

In 1981, the federal Natural Resources Conservation Service (NRCS), known then as the Soil Conservation Service, released a new system that was designed to provide objective ratings of the agricultural suitability of land compared to demands for nonagricultural uses of lands. The system became known as Land Evaluation and Site Assessment, or LESA. Soon after it was designed, LESA was adopted as a procedural tool at the federal level for identifying and addressing the potential adverse effects of federal programs (e.g., funding of highway construction) on farmland protection. The Farmland Protection Policy Act of 1981 (5) spells out requirements to ensure that federal programs, to the extent practical, are compatible with state, local, and private programs and policies to protect farmland, and calls for the use of LESA to aid in this analysis. Typically, staff of the NRCS is involved in performing LESA scoring analyses of individual projects that involve other agencies of the federal government.

Since its inception, the LESA approach has received substantial attention from state and local governments as well. Nationwide, over two hundred jurisdictions have developed local LESA methodologies (7). One of the attractive features of the LESA approach is that it is well suited to being modified to reflect regional and local conditions. Typical local applications of LESA include assisting in decision making concerning the sitting of projects, changes in zoning, and spheres of influence determinations. LESA is

also increasingly being utilized for farmland protection programs, such as the identification of priority areas to concentrate conservation easement acquisition efforts.

Because of the inherent flexibility in LESA model design, there is a broad array of factors that a given LESA model can utilize. Some LESA models require the measurement of as many as twenty different factors. Over the past 15 years, the body of knowledge concerning LESA model development and application has begun to indicate that LESA models utilizing only several basic factors can capture much of the variability associated with the determination of the relative value of agricultural lands. In fact, LESA models with many factors are increasingly viewed as having redundancies, with different factors essentially measuring the same features, or being highly correlated with one another. Additional information on the evolution and development of the LESA approach is provided in, A *Decade with LESA -The Evolution of Land Evaluation and Site Assessment* (8).

Development of the California Agricultural LESA Model

In 1990 the Department of Conservation commissioned a study to investigate land use decisions that affect the conversion of agricultural lands in California. The study, conducted by Jones and Stokes Associates, Inc., was prepared in response to concerns about agricultural land conversion identified in the *California Soil Conservation Plan* (1) (developed by the ad hoc Soil Conservation Advisory Committee serving the Department of Conservation in 1987). Among these concerns was the belief that there was inadequate information available concerning the socioeconomic and environmental implications of farmland conversions, and that the adequacy of current farmland conversion impact analysis under the California Environmental Quality Act (CEQA) was not fully known. The findings of this study are included in the publication, *The Impacts of Farmland Conversion in California* (2).

Currently, neither CEQA nor the State CEQA Guidelines contains procedures or specific guidance concerning how agencies should address farmland conversion impacts of projects. The only specific mention of agricultural issues is contained in Appendix G of the State CEQA Guidelines, which states that a project will normally have a significant effect on the environment if it will “convert prime agricultural land to non-agricultural use or impair the agricultural productivity of prime agricultural land”.

Among the conclusions contained in *The Impacts of Farmland Conversion in California* study was that the lack of guidance in how lead agencies should address the significance of farmland conversion impacts resulted in many instances of no impact analysis at all. A survey of environmental documents sent to the Governor's Office of Planning and Research (OPR) between 1986 and 1988 was performed. The survey

showed that among projects that affected at least 100 acres of land and for which agriculture was a project issue, nearly 30 percent received Negative Declarations, and therefore did not did not receive the environmental impact analysis that would be provided by an Environmental Impact Report (EIR).

Of those projects involving the conversion of agricultural lands and being the subject of an EIR, the study found a broad range of approaches and levels of detail in describing the environmental setting, performing an impact analysis, and providing alternative mitigation measures. The only agricultural impacts found to be significant in the EIRs were those involving the direct removal of prime agricultural lands from production by the project itself. The focus on prime farmland conversion in the projects surveyed was deemed to be related to the narrow direction provided in Appendix G of the State CEQA Guidelines.

The formulation of a California LESA Model is the result of Senate Bill 850 (Chapter 812 /1993), which charges the Resources Agency, in consultation with the Governor's Office of Planning and Research, to develop an amendment to Appendix G of the California Environmental Quality Act (CEQA) Guidelines. Such an amendment is intended "to provide lead agencies with an optional methodology to ensure that significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process" (Public Resources Code Section 21095). This legislation authorizes the Department of Conservation to develop a California LESA Model, which can in turn be adopted as the required amendment to Appendix G of the CEQA Guidelines.

Presentation of the California LESA Model

The California LESA Model is presented in this Manual in the following sections:

Section I. provides a listing of the information and tools that will typically be needed to develop LESA scores for individual projects.

Section II. provides step-by-step instructions for scoring each of the six Land Evaluation and Site Assessment factors that are utilized in the Model, with an explanation of the rationale for the use of each factor.

Section III. defines the assignment of weights to each of the factors relative to one another, and the creation of a final LESA score for a given project.

Section IV. assigns scoring thresholds to final LESA scores for the purpose of determining the significance of a given project under CEQA where the conversion of agricultural lands is a project issue.

Additionally:

Appendix A. provides an abridged set of step-by-step LESA scoring instructions that can be used and reproduced for scoring individual projects.

Appendix B. demonstrates the application of the California LESA Model to the scoring of a hypothetical project.

The California Agricultural LESA Model

Section I. Required Resources and Information

The California Land Evaluation and Site Assessment (LESA) Model requires the use and interpretation of basic land resource information concerning a given project. A series of measurements and calculations is also necessary to obtain a LESA score. Listed below are the materials and tools that will generally be needed to make these determinations.

Land Evaluation and Site Assessment calculations will require:

1. A calculator or other means of tabulating numbers

2. An accurately scaled map of the project area, such as a parcel map

3. A means for making acreage determinations of irregularly shaped map units. Options include, from least to most technical:

    - A transparent grid-square or dot-planimeter method of aerial measurement

    - A hand operated electronic planimeter

    - The automatic planimetry capabilities of a Geographic Information System (GIS)

4. A modern soil survey, generally produced by the USDA Natural Resources Conservation Service, which delineates the soil-mapping units for a given project. [Note: If modern soil survey information is not available for a given area of study, it may be necessary to draw upon the services of a professional soil scientist to perform a specific project survey].

5. Maps that depict land uses for parcels including and surrounding the project site, such as the Department of Conservation's Important Farmland Map series, the Department of Water Resources Land Use map series, or other appropriate information.

6. Maps or information that indicate the location of parcels including and surrounding the project site that are within agricultural preserves, are under public ownership, have conservation easements, or have other forms of long term commitments that are considered compatible with the agricultural use of a given project site.

Section II. Defining and Scoring the California Land Evaluation and Site Assessment Model Factors

This section provides detailed step-by-step instructions for the measurement and scoring of each of the Land Evaluation and Site Assessment factors that are utilized in the California Agricultural LESA Model, and is intended to serve as an introduction to the process of utilizing the Model. Once users are familiar with the Model, a more streamlined set of instructions and scoring sheets is available in Appendix A. In addition, the scoring of a hypothetical project is presented using these scoring sheets in Appendix B.

Scoring of Land Evaluation Factors

The California LESA Model includes two Land Evaluation factors that are separately rated:

1. The Land Capability Classification Rating
2. The Storie Index Rating

The information needed to make these ratings is typically available from soil surveys that have been conducted by the federal Natural Resources Conservation Service (formerly known as the Soil Conservation Service). Consultation should be made with NRCS staff (field offices exist in most counties) to assure that valid and current soil resource information is available for the project site. Copies of soil surveys are available at local field offices of the NRCS, and may also be available through libraries, city and county planning departments, the Cooperative Extension, and other sources. In addition, a Certified Professional Soil Scientist (CPSS) may also be consulted to obtain appropriate soil resource information for the project site. A directory of CPSS registered soil consultants is available through the Professional Soil Scientists Association of California, P.O. Box 3213, Yuba City, CA 95992-3213; phone: (916) 671-4276.

1) The USDA Land Capability Classification (LCC) - The LCC indicates the suitability of soils for most kinds of crops. Groupings are made according to the limitations of the soils when used to grow crops, and the risk of damage to soils when they are used in agriculture. Soils are rated from Class I to Class VIII, with soils having the fewest limitations receive the highest rating (Class I). Specific subclasses are also utilized to further characterize soils. An expanded explanation of the LCC is included in most soil surveys.

2) The Storie Index - The Storie Index provides a numeric rating (based upon a 100 point scale) of the relative degree of suitability or value of a given soil for intensive agriculture. The rating is based upon soil characteristics only. Four factors that represent the inherent characteristics and qualities of the soil are

considered in the index rating. The factors are: profile characteristics, texture of the surface layer, slope, and other factors (e.g., drainage, salinity).

In some situations, only the USDA Land Capability Classification information may be currently available from a given published soil survey. However, Storie Index ratings can readily be calculated from information contained in soil surveys by qualified soil scientists. Users are encouraged to seek assistance from NRCS staff or Certified Professional Soil Scientists to derive Storie Index information for the soils as well. If, however, limitations of time or resources restrict the derivation of Storie Index ratings for the soils within a region, it may be possible to adapt the Land Evaluation by relying solely upon the LCC rating. Under this scenario the LCC rating would account for 50 percent of the overall LESA factor weighting.

Identifying a Project's Soils

In order to rate the Land Capability Classification and Storie Index factors, the evaluator must identify the soils that exist on a given project site and determine their relative proportions. A **Land Evaluation Worksheet** (Table 1A.) is used to tabulate these figures, based upon the following:

Step 1.
Locate the project on the appropriate map sheet in the Soil Survey.

Step 2.
Photocopy the map sheet and clearly delineate the project boundaries on the map, paying close attention to the map scale.

Step 3.
Identify all of the soil mapping units existing in the project site (each mapping unit will have a different map unit symbol) and enter the each mapping unit symbol in **Column A** of the **Land Evaluation Worksheet** (Table 1A).

Step 4.
Calculate the acreage of each soil mapping unit present within the project site using any of the means identified in **Section 1**, **Required Resources and Information**, and enter this information in **Column B**.

Step 5.

Divide the acres of each soil mapping unit by the total project acreage to determine the proportion of each unit that comprises the project, and enter this information in Column C.

1. Land Evaluation - The Land Capability Classification Rating

Step 1.
In the Guide to Mapping Units typically found within soil surveys, identify the Land Capability Classification (LCC) designation (e.g., IV-e) for each mapping unit that has been identified in the project and enter these designations in **Column D** of the **Land Evaluation Worksheet** (Table 1A.).

Step 2.
From Table 2., **The Numeric Conversion of Land Capability Classification Units**, obtain a numeric score for each mapping unit, and enter these scores in **Column E**.

Step 3.
Multiply the proportion of each soil mapping unit (**Column C**) by the LCC points for each mapping unit (**Column E**) and enter the resulting scores in **Column F**.

Step 4.
Sum the LCC scores in **Column F** to obtain a single LCC Score for the project. Enter this LCC Score in **Line 1** of the **Final LESA Worksheet** (Table 8)

Table 2. Numeric Conversion of Land Capability Classification Units

Land Capability Classification	LCC Point Rating
I	100
IIe	90
IIs,w	80
IIIe	70
IIIs,w	60
IVe	50
IVs,w	40
V	30
VI	20
VII	10
VIII	0

Table 1A.
Land Evaluation Worksheet

Land Capability Classification (LCC) and Storie Index Scores

A	B	C	D	E	F	G	H
Soil Map Unit	Project Acres	Proportion of Project Area	LCC	LCC Rating	LCC Score	Storie Index	Storie Index Score
Totals		(Must Sum to 1.0)		***LCC Total***		***Storie Index Total***	

Table 1B.
Site Assessment Worksheet 1.

Project Size Score

	I	J	K
	LCC Class I - II	LCC Class III	LCC Class IV - VIII
Total Acres			
Project Size Scores			

Highest Project Size Score |

2. Land Evaluation - The Storie Index Rating Score

Step 1.
From the appropriate soil survey or other sources of information identified in Appendix C, determine the Storie Index Rating (the Storie Index Rating is already based upon a 100 point scale) for each mapping unit and enter these values in **Column G** of the **Land Evaluation Worksheet** (Table 1A.).

Step 2.
Multiply the proportion of each soil mapping unit found within the project (**Column C**) by the Storie Index Rating (**Column G**), and enter these scores in **Column H**.

Step 3.
Sum the Storie Index Rating scores in **Column H** to obtain a single Storie Index Rating score for the project. Enter this Storie Index Rating Score in **Line 2** of the **Final LESA Worksheet** (Table 8)

Scoring of Site Assessment Factors

The California LESA Model includes four Site Assessment factors that are separately rated:

1. **The Project Size Rating**
2. **The Water Resources Availability Rating**
3. **The Surrounding Agricultural Land Rating**
4. **The Surrounding Protected Resource Land Rating**

1. Site Assessment - The Project Size Rating

The Project Size Rating relies upon acreage figures that were tabulated under the Land Capability Classification Rating in Table 1A. The Project Size rating is based upon identifying acreage figures for three separate groupings of soil classes within the project site, and then determining which grouping generates the highest Project Size Score.

Step 1.
Using information tabulated in **Columns B** and **D** of the **Land Evaluation Worksheet** (Table 1A), enter acreage figures in **Site Assessment Worksheet 1. - Project Size** (Table 1B) using either **Column I, J,** or **K** for each of the soil mapping units in a given project.

Step 2.
Sum the entries in **Column I** to determine the total acreage of Class I and II soils on the project site.

Sum the entries in **Column J** to determine the total acreage of Class III soils on the project site.

Sum the entries in **Column K** to determine the total acreage of Class IV and lower rated soils on the project site.

Step 3.
For each of the three columns, apply the appropriate scoring plan provided in Table 3, **Project Size Scoring**, and enter the **Project Size Score** for each grouping in the **Site Assessment Worksheet 1. - Project Size** (Table 1B). Determine which column generates the highest score. The highest score becomes the overall **Project Size Score**. Enter this number in **Line 3** of the **Final LESA Scoresheet** (Table 8).

Table 3. Project Size Scoring

LCC Class I or II soils		LCC Class III soils		LCC Class IV or lower	
Acres	***Score***	***Acres***	***Score***	***Acres***	***Score***
80 or above	100	160 or above	100	320 or above	100
60-79	90	120-159	90	240-319	80
40-59	80	80-119	80	160-239	60
20-39	50	60-79	70	100-159	40
10-19	30	40-59	60	40-99	20
fewer than 10	0	20-39	30	fewer than 40	0
		10-19	10		
		fewer than 10	0		

Explanation of the Project Size Factor

The Project Size factor in the California Agricultural LESA Model was developed in cooperation with Nichols-Berman, a consulting firm under contract with the Department of Conservation. A thorough discussion of the development of this rating is presented by Nichols-Berman in a report to the Department entitled, *Statewide LESA Methodologies Report - Project Size and Water Resource Availability Factors* (3).

The inclusion of the measure of a project's size in the California Agricultural LESA Models is a recognition of the role that farm size plays in the viability of commercial agricultural operations. In general, larger farming operations can provide greater flexibility in farm management and marketing decisions. Certain economies of scale for equipment and infrastructure can also be more favorable for larger operations. In addition, larger operations tend to have greater impacts upon the local economy through direct employment, as well as impacts upon support industries (e.g., fertilizers, farm equipment, and shipping) and food processing industries.

While the size of a given farming operation may in many cases serve as a direct indicator of the overall economic viability of the operation, The California Agricultural LESA Model does not specifically consider the issue of economic viability. The variables of economic viability for a specific farm include such factors as the financial management and farming skills of the operator, as well as the debt load and interest rates being paid by an individual operator, which are issues that cannot readily be included in a statewide LESA model.

In terms of agricultural productivity, the size of a farming operation can be considered not just from its total acreage, but the acreage of different quality lands that comprise the operation. Lands with higher quality soils lend themselves to greater management and cropping flexibility and have the potential to provide a greater economic return per unit acre. For a given project, instead of relying upon a single acreage figure in the Project Size rating, the project is divided into three acreage groupings based upon the Land Capability Classification ratings that were previously determined in the Land Evaluation analysis. Under the Project Size rating, relatively fewer acres of high quality soils are required to achieve a maximum Project Size score. Alternatively, a maximum score on lesser quality soils could also be derived, provided there is a sufficiently large acreage present. Acreage figures utilized in scoring are the synthesis of interviews that were conducted statewide for growers of a broad range of crops. In the interviews growers were queried as to what acreage they felt would be necessary in order for a given parcel to be considered attractive for them to farm.

The USDA LCC continues to be the most widely available source of information on land quality. Project Size under this definition is readily measurable, and utilizes much of the same information needed to score a given project under the Land Evaluation component of the methodology. This approach also complements the LE determination, which, while addressing soil quality, does not account for the total acreage of soils of given qualities within a project.

This approach allows for an accounting of the significance of high quality agricultural land as well as lesser quality agricultural lands, which by virtue of their large area can be considered significant agricultural resources. In this way, no single acreage figure for a specific class of soils (e.g., soils defined as “prime”) is necessary.

2. Site Assessment - The Water Resources Availability Rating

The Water Resources Availability Rating is based upon identifying the various water sources that may supply a given property, and then determining whether different restrictions in supply are likely to take place in years that are characterized as being periods of drought and non-drought. **Site Assessment Worksheet 2. - Water Resources Availability Worksheet** (Table 4) is used to tabulate the score.

Step 1.
Identify the different water resource types that are used to supply the proposed project site (for example, irrigation district water, ground water, and riparian water are considered to be three different types of water resources). Where there is only one water source identified for the proposed project, skip to Step 4.

Step 2.
Divide the proposed project site into portions, with the boundaries of each portion being defined by the irrigation water source(s) supplying it. A site that is fully served by a single source of water will have a single portion, encompassing the entire site. A site that is fully served by two or more sources that are consistently merged together to serve a crop's needs would also have a single portion. (e.g., a portion of the proposed project may receive both irrigation district and groundwater). If the project site includes land that has no irrigation supply, consider this acreage as a separate portion as well. Enter the water resource portions of the project in **Column B** of Table 4, **Site Assessment Worksheet 2. - Water Resources Availability**.

[As an example, a hypothetical project site is determined to have four separate water supply portions:

Portion 1 is served by irrigation district water only;
Portion 2 is served by ground water only;
Portion 3 is served by *both* irrigation district water and ground water;
Portion 4 is not irrigated at all.**]**

Step 3.
Calculate the proportion of the total project area that is represented by each water resource portion, and enter these figures in **Column C** of **Site Assessment Worksheet 2. - Water Resources Availability**, verifying that the sum of the proportions equals 1.0.

Table 4. Site Assessment Worksheet 2. - Water Resources Availability

A	B	C	D	E
Project Portion	Water Source	Proportion of Project Area	Water Availability Score	Weighted Availability Score (C x D)
1				
2				
3				
4				
5				
6				
		(Must Sum to 1.0)	***Total Water Resource Score***	

Step 4.

For each water resource supply portion of the project site, determine whether irrigated and dryland agriculture is *feasible*, and if any *physical* or *economic restrictions* exist, during both *drought* and *non-drought* years. These italicized terms are defined below:

- A *physical restriction* is an occasional or regular interruption or reduction in a water supply, or a shortened irrigation season, that forces a change in agricultural practices -- such as planting a crop that uses less water, or leaving land fallow. (This could be from cutbacks in supply by irrigation and water districts, or by ground or surface water becoming depleted or unusable. Poor water quality can also result in a physical restriction -- for example by requiring the planting of salt-tolerant plants, or by effectively reducing the amount of available water.)

- An *economic restriction* is a rise in the cost of water to a level that forces a reduction in consumption. (This could be from surcharge increases from water suppliers as they pass along the cost of finding new water supplies, the extra cost of pumping more ground water to make up for losses in surface water supplies, or the extra energy costs of pumping the same amount of ground water from deeper within an aquifer.)

- Irrigated agricultural production is *feasible* when:

  1) There is an existing irrigation system on the project site that can serve the portion of the project identified in Step 2;

  2) *Physical* and/or *economic restrictions* are not severe enough to halt production; and

  3) It is possible to achieve a viable economic return on crops though irrigated production.

(A major question that should be considered is, if there is an irrigated crop that can be grown within the region, can it actually be grown on the project site? Depending upon the jurisdiction, some typical crops that have a large water demand may not be feasible to grow on the project site, while others that require less water are feasible. Information to aid in making this determination can be obtained from county agricultural commissioners, the UC Cooperative Extension, irrigation districts, and other sources.)

- *Dryland production* is *feasible* when rainfall is adequate to allow an economically viable return on a nonirrigated crop.

- A *drought year* is a year that lies within a defined drought period, as defined by the Department of Water Resources or by a local water agency. Many regions of the state are by their arid nature dependent upon imports of water to support irrigated agriculture. These regions shall not be considered under periods of drought unless a condition of drought is declared for the regions that typically would be providing water exports.

Step 5.
Each of the project's water resource supply portions identified in **Step 2** is scored separately. Water Resources Availability scoring is performed by identifying the appropriate condition that applies to each portion of the project, as identified in Table 5., **Water Resource Availability Scoring**. Using Table 5, identify the option that best describes the water resource availability for that portion and its corresponding water resource score. Option 1 defines the condition of no restrictions on water resource availability and is followed progressively with increasing restrictions to Option 14, the most severe condition, where neither irrigated nor dryland production is considered feasible. Enter each score into **Column D** of Table 4.

Step 6.
For each portion of the project site, determine the section's weighted score by multiplying the portion's score (**Column D**), by its proportion of the project area (**Column C**), and enter these scores in **Column E**, the weighted Water Availability Score. Sum the **Column E** scores to obtain the total Water Resource Availability Score, and enter this figure in **Line 4** of the **Final LESA Score Sheet** (Table 8).

Table 5. Water Resource Availability Scoring

Option	Non-Drought Years			Drought Years			WATER RESOURCE SCORE
	RESTRICTIONS			RESTRICTIONS			
	Irrigated Production Feasible?	Physical Restrictions ?	Economic Restrictions ?	Irrigated Production Feasible?	Physical Restrictions ?	Economic Restrictions ?	
1	YES	NO	NO	YES	NO	NO	100
2	YES	NO	NO	YES	NO	YES	95
3	YES	NO	YES	YES	NO	YES	90
4	YES	NO	NO	YES	YES	NO	85
5	YES	NO	NO	YES	YES	YES	80
6	YES	YES	NO	YES	YES	NO	75
7	YES	YES	YES	YES	YES	YES	65
8	YES	NO	NO	NO	-- --	-- --	50
9	YES	NO	YES	NO	-- --	-- --	45
10	YES	YES	NO	NO	-- --	-- --	35
11	YES	YES	YES	NO	-- --	-- --	30
12	Irrigated production not feasible, but rainfall adequate for dryland production in both drought and non-drought years						25
13	Irrigated production not feasible, but rainfall adequate for dryland production in non-drought years (but not in drought years)						20
14	Neither irrigated nor dryland production feasible						0

Explanation of the Water Resource Availability Rating

The Water Resource Availability factor in the California Agricultural LESA Model was developed in cooperation with Nichols-Berman, a consulting firm under contract with the Department of Conservation. A thorough discussion of the development of this rating is presented by Nichols-Berman in a report to the Department entitled, *Statewide LESA Methodologies Report - Project Size and Water Resource Availability Factors* (3). During the development of this factor it became apparent that certain conditions unique to California would need to be represented in this system.

First, it was decided to classify water reliability based upon the *effects* on agricultural production (such as being forced to change to lower-value crops, putting in groundwater pumps, or cutting back on the acreage farmed) rather than the actual *type* of limitation (such as a limitation on the quantity, frequency, or duration of water delivery). LESA systems have traditionally focused on the latter. However, it was found that the many types of limitations are too varied in California to adequately represent in the LESA system. In the Statewide LESA system, these effects are referred to as *restrictions*.

Second, the factor had to include an interrelation with cost. The historical shortages and unreliability of California water use has led to the establishment of various interconnected and dual systems. Probably more than any other state, reliability is related with cost -- a more reliable water supply can sometimes be obtained, but at a greater cost. Therefore, *restrictions* were classified into two major categories -- *physical* and *economic*. These are separated because, generally, a physical restriction is more severe than an economic restriction and this should be reflected in the LESA system.

Third, the factor had to include the effects of the drought cycle in California. During the drought of 1987 to 1992, many agricultural areas of the state experienced water shortages. The impact of these shortages resulted in a number of different actions. Some areas were able to avoid the worst effects of the drought simply by implementing water conservation measures. Other areas were able to obtain additional water supplies, such as by securing water transfers or simply pumping more groundwater, but at an increase in the overall price of water. Other options included shifting crops, replanting to higher value crops to offset the increase in water prices, or leaving land fallow. A project site that experiences restrictions during a drought year should not be scored as high as a similar project site that does not.

The easiest way to make determinations of irrigation feasibility and the potential restrictions of water sources is to investigate the cropping history of the project site. For instance, was the water supply to the project site reduced by the local irrigation district during the last drought? If the site has a ground water supply, do area ground water levels sometimes drop to levels that force markedly higher energy costs to pump the water?

If the history of the project site is unavailable (including when the site has recently installed an irrigation system), look at the history of the general area. However, remember that the project site may have different conditions than the rest of the region. For instance, the project site could have an older water right than others in the region. Although certain areas of the state had severe restrictions on water deliveries during the last drought, some parcels within these areas had very secure deliveries due to more senior water rights. If this was the case in the region of the project site, check the date of water right and compare it with parcels that received their total allotment during the last drought. The local irrigation district should have information on water deliveries.

The scoring of water resource availability for a project site should not just reflect the adequacies of water supply in the past -- it should be a *prediction* of how the water system will perform in the future. For instance, a local jurisdiction might find that the allocation of flows to stream and river systems has been recently increased for environmental reasons, which will decrease the future available surface water supply. In this case, the past history of the site is not an adequate representation of future water supply and water system performance.

3. Site Assessment - The Surrounding Agricultural Land Rating

Determination of the surrounding agricultural land use rating is based upon the identification of a project's "Zone of Influence" (ZOI), which is defined as that land near a given project, both directly adjoining and within a defined distance away, that is likely to influence, and be influenced by, the agricultural land use of the subject project site. The determination of the ZOI is described below, and is illustrated with an example in Figure 1.

Defining a Project's "Zone of Influence"

Step 1.
Locate the proposed project on an appropriate map and outline the area and dimensions of the proposed project site.

Step 2.
Determine the smallest rectangle that will completely contain the project site (Rectangle A).

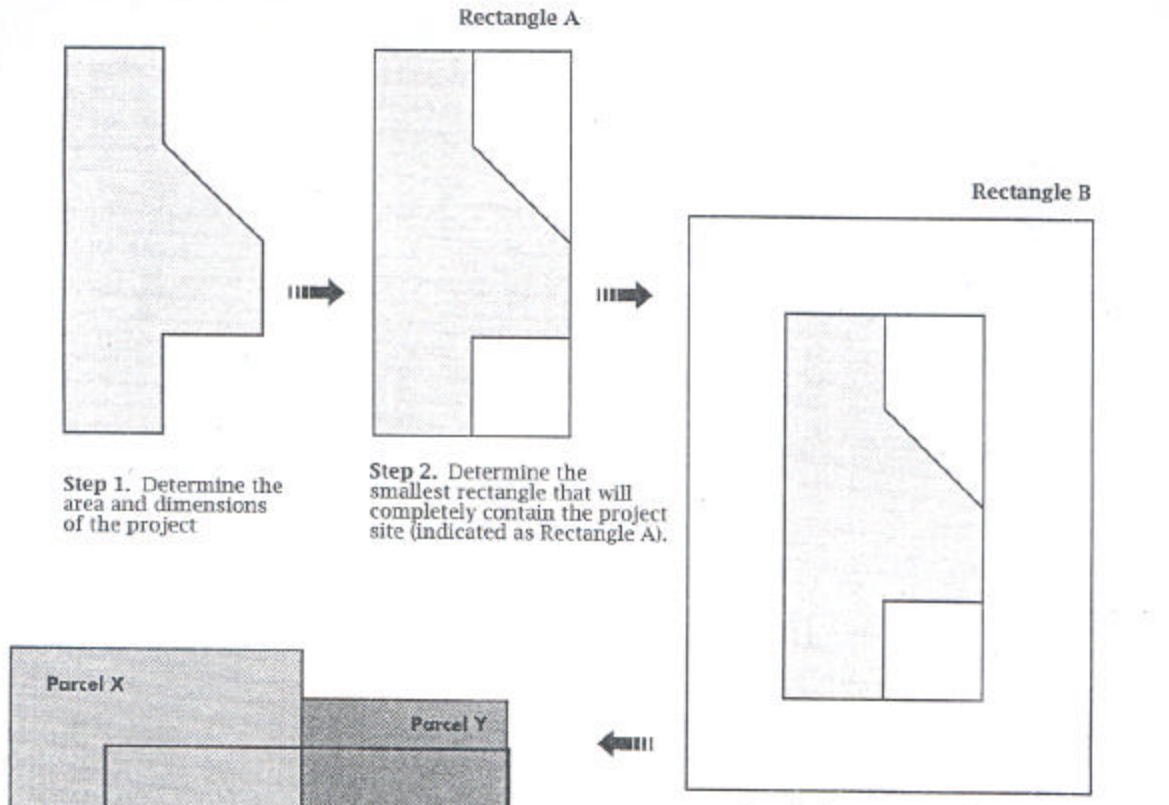
Step 3.
Create a second rectangle (Rectangle B) that extends 0.25 mile (1320 feet) beyond Rectangle A on all sides.

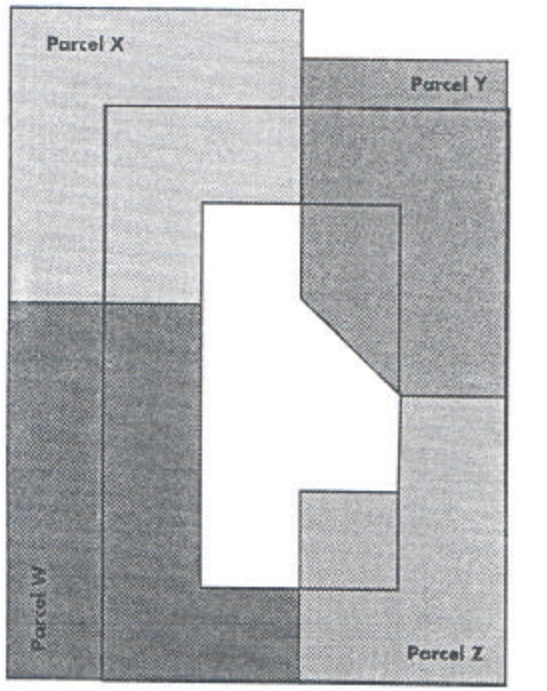
Step 4.
Identify all parcels that are within or are intersected by Rectangle B.

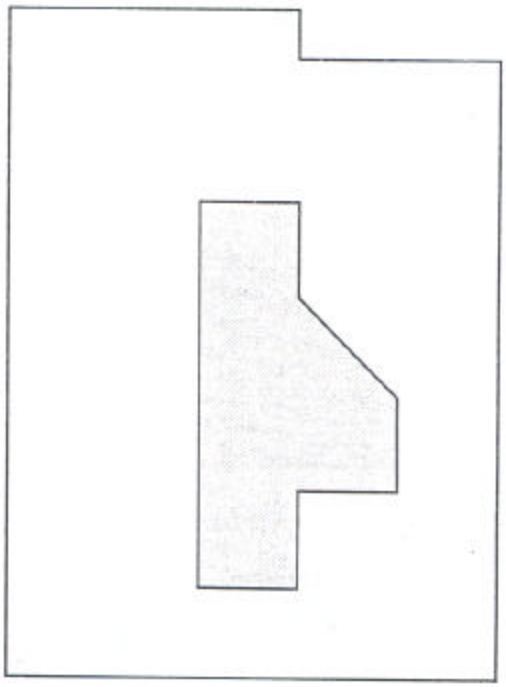
Step 5.
Define the project site's "zone of influence" as the entire area of all parcels identified in Step 4, less the area of the proposed project from Step 1.

[In the illustration provided in Figure 1, Parcels W, X, and Y extend beyond Rectangle B and are therefore included in their entirety in defining the project site's Zone of Influence.**]**

Figure 1: Defining a Project's Zone of Influence







Measuring Surrounding Agricultural Land

Step 1.
Calculate the percentage of the project's Zone of Influence that is currently producing agricultural crops. **[**This figure can be determined using information from the Department of Conservation's Important Farmland Map Series, the Department of Water Resources' Land Use Map Series, locally derived maps, or direct site inspection. For agricultural land that is currently fallowed, a determination must be made concerning whether the land has been fallowed as part of a rotational sequence during normal agricultural operations, or because the land has become formally "committed" to a nonagricultural use. Land that has become formally committed, whether fallow or not, should not generally be included in determining the proportion of the Zone of Influence that is agricultural land. For further information on the definition of Committed Land, refer to the following Explanation of the Surrounding Agricultural Land Rating.**]**

Step 2.
Based on the percentage of agricultural land in the ZOI determined in Step 1, assign a Surrounding Agricultural Land score to the project according to Table 6, and enter this score in **Line 5** of the **Final LESA Scoresheet** (Table 8) .

Table 6. Surrounding Agricultural Land Rating

Percent of Project's Zone of Influence in Agricultural Use	Surrounding Agricultural Land Score
90 - 100%	100 Points
80 - 89	90
75 - 79	80
70 - 74	70
65 - 69	60
60 - 64	50
55 - 59	40
50 - 54	30
45 - 49	20
40 - 44	10
40 <	0

Explanation of the Surrounding Agricultural Land Rating

The Surrounding Agricultural Land Rating is designed to provide a measurement of the level of agricultural land use for lands in close proximity to a subject project. The California Agricultural LESA Model rates the potential significance of the conversion of an agricultural parcel that has a large proportion of surrounding land in agricultural production more highly than one that has a relatively small percentage of surrounding land in agricultural production. The definition of a "Zone of Influence" that accounts for surrounding lands up to a minimum of one quarter mile from the project boundary is the result of several iterations during model development for assessing an area that will generally be a representative sample of surrounding land use. In a simple example, a single one quarter mile square project (160 acres) would have a Zone of Influence that is a minimum of eight times greater (1280 acres) that the parcel itself.

Land within a Zone of Influence that is observed to be fallow will require a case by case determination of whether this land should be considered agricultural land. The Department of Conservation's Important Farmland Maps may be of assistance in making this determination. In addition, land currently in agricultural production may be designated as being "committed" to future nonagricultural development. The Department of Conservation's Farmland Mapping and Monitoring Program has a land use designation of Land Committed to Nonagricultural Use, and is defined as "land that is permanently committed by local elected officials to nonagricultural development by virtue of decisions which cannot be reversed simply by a majority vote of a city council or county board of supervisors. The "committed" land must be so designated in an adopted local general plan, and must also meet the requirements of either (a) or (b) below:

(a). It must have received one of the following final discretionary approvals:

1. Tentative subdivision map (approved per the Subdivision Map Act);
2. Tentative or final parcel map (approved per the Subdivision Map Act);
3. Recorded development agreement (per Government Code §65864);
4. Other decisions by a local government which are analogous to items #1-3 above and which exhibit an element of permanence. Zoning by itself does <u>not</u> qualify as a permanent commitment.

<u>Or</u>

(b) It must be the subject of one of the final fiscal commitments to finance the capital improvements specifically required for future development of the land in question as shown below:

1. Recorded Resolution of Intent to form a district and levy an assessment;
2. Payment of assessment;
3. Sale of bonds;
4. Binding contract, secured by bonds, guaranteeing installation of infrastructure;
5. Other fiscal commitments which are analogous to items #1-4 above and exhibit an element of permanence."

Lead agencies are encouraged to identify Land Committed to Nonagricultural Use within a project's ZOI and make the determination whether this land, while still in agricultural production, be considered nonagricultural land for the purposes of the calculation performed here.

4. Site Assessment - The Surrounding Protected Resource Land Rating

The Surrounding Protected Resource Land Rating is essentially an extension of the Surrounding Agricultural Land Rating, and is scored in a similar manner. Protected resource lands are those lands with long term use restrictions that are compatible with or supportive of agricultural uses of land. Included among them are the following:

- Williamson Act contracted lands
- Publicly owned lands maintained as park, forest, or watershed resources
- Lands with agricultural, wildlife habitat, open space, or other natural resource easements that restrict the conversion of such land to urban or industrial uses.

Instructions for the Surrounding Protected Resource Land Rating

Step 1.
Utilizing the same "Zone of Influence" (ZOI) area calculated for a project under the Surrounding Agricultural Land Rating, calculate the percentage of the ZOI that is Protected Resource Land, as defined above.

Step 2.
Assign a Surrounding Protected Resource Land score to the project according to Table 7, and enter this score on **Line 6** of the **Final LESA Scoresheet** (Table 8).

Table 7. Surrounding Protected Resource Land Rating

Percent of Project's Zone of Influence Defined as Protected	Surrounding Protected Resource Land Score
90 - 100%	100 Points
80 - 89	90
75 - 79	80
70 - 74	70
65 - 69	60
60 - 64	50
55 - 59	40
50 - 54	30
45 - 49	20
40 - 44	10
40 <	0

Section III. Weighting of Factors and Final LESA Scoring

The California LESA Model is weighted so that 50 percent of the total LESA score of a given project is derived from the Land Evaluation factors, and 50 percent from the Site Assessment factors. Individual factor weights are listed below, with the sum of the factor weights required to equal 100 percent.

Land Evaluation Factors

Land Capability Classification	25%
Storie Index Rating	25%
Land Evaluation Subtotal	**50%**

Site Assessment Factors

Project Size	15%
Water Resource Availability	15%
Surrounding Agricultural Lands	15%
Surrounding Protected Resource Lands	5%
Site Assessment Subtotal	**50%**
Total LESA Factor Weighting	**100%**

Each factor is measured separately (each on 100 point scale) and entered in the appropriate line in **Column B** of the **Final LESA Scoresheet** (Table 8). Each factor's score is then multiplied by its respective factor weight, resulting in a weighted factor score in **Column D** as indicated in Table 8. The weighted factor scores are summed, yielding a Total LESA Score (100 points maximum) for a given project, which is entered in **Line 7** of **Column D**.

Table 8. Final LESA Scoresheet

A	B		C		D
Factor Name	Factor Rating (0-100 points)	X	Factor Weighting (Total = 1.00)	=	Weighted Factor Rating
<u>Land Evaluation</u>					
1. Land Capability Classification	<Line 1>_____	X	0.25	=	_____
2. Storie Index Rating	<Line 2>_____	X	0.25	=	_____
<u>Site Assessment</u>					
1. Project Size	<Line 3>_____	X	0.15	=	_____
2. Water Resource Availability	<Line 4>_____	X	0.15	=	_____
3. Surrounding Agricultural Lands	<Line 5>_____	X	0.15	=	_____
4. Protected Resource Lands	<Line 6>_____	X	0.05	=	_____
			Total LESA Score (sum of weighted factor ratings)		<Line 7>_____

Section IV. California Agricultural LESA Scoring Thresholds - Making Determinations of Significance Under CEQA

A single LESA score is generated for a given project after all of the individual Land Evaluation and Site Assessment factors have been scored and weighted as detailed in Sections 2 and 3. Just as with the scoring of individual factors that comprise the California Agricultural LESA Model, final project scoring is based on a scale of 100 points, with a given project being capable of deriving a maximum of 50 points from the Land Evaluation factors and 50 points from the Site Assessment factors.

The California Agricultural LESA Model is designed to make determinations of the potential significance of a project's conversion of agricultural lands during the Initial Study phase of the CEQA review process. Scoring thresholds are based upon both the total LESA score as well as the component LE and SA subscores. In this manner the scoring thresholds are dependent upon the attainment of a minimum score for the LE and SA subscores so that a single threshold is not the result of heavily skewed subscores (i.e., a site with a very high LE score, but a very low SA score, or vice versa). Table 9 presents the California Agricultural LESA scoring thresholds.

Table 9. California LESA Model Scoring Thresholds

Total LESA Score	Scoring Decision
0 to 39 Points	Not Considered Significant
40 to 59 Points	Considered Significant only if LE and SA subscores are each greater than or equal to 20 points
60 to 79 Points	Considered Significant unless either LE or SA subscore is less than 20 points
80 to 100 Points	Considered Significant

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Appendix D *(Part 1)*

Air Quality Impact Analysis and Appendices

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AIR QUALITY IMPACT ANALYSIS

Malibu Vineyards Industrial Parkway Project
Bakersfield, CA

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Project 190505.0209

Trinity Consultants

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1. EXECUTIVE SUMMARY

Trinity Consultants has completed an Air Quality Impact Analysis (AQIA) for the Malibu Vineyards Industrial Parkway Project. The Project site is located northwest of Bakersfield, California along the eastern side of Highway 99 between Imperial Street and the northern side of Burbank Street.

The Project will revise the existing land use and agricultural zoning (R-IA/A) in support of the General Plan Amendment (GPA) for the development of a light to medium industrial park (SI/M-2/PD) on approximately 739 gross acres. The Project will be developed in two phases with Phase 1 being the portion that is east of the Lerdo Canal and Phase 2 being west of the Lerdo Canal. The focus of the industrial development will be for distribution warehousing.

The proposed Project's construction would include the following criteria pollutant emissions: reactive organic gases (ROG), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and suspended particulate matter (PM_{10} and $PM_{2.5}$). Project operations would generate air pollutant emissions from mobile sources (vehicle activity from employees and distribution trucks), energy sources (natural gas usage), and area sources (incidental activities related to architectural coating, consumer products, and landscape maintenance). Project construction and operational activities would also generate greenhouse gas (GHG) emissions. Criteria and GHG emissions were estimated using the California Emissions Estimator Model (CalEEMod) version 2022.1 (California Air Pollution Control Officers Association (CAPCOA) 2022a), which is the most current version of the model approved for use by the San Joaquin Valley Air Pollution Control District (SJVAPCD).

Table 4-3 presents the Project's construction emissions and provides substantial evidence to support a *less than significant* air quality impact on the San Joaquin Valley Air Basin. Table 4-4 presents the Project's operations emissions and provides substantial evidence to support a *less than significant* air quality impact on the San Joaquin Valley Air Basin. Based on the foregoing conclusions, the Project is considered to have *less than significant* air quality impacts on the San Joaquin Valley Air Basin.

Cumulative impacts were also evaluated. A list of tentative development projects provided by the Kern County Planning Department identified tentative projects within a six-mile radius of the proposed Project. Cumulative emissions were not quantified because the details provided for these projects do not provide enough information to accurately estimate their potential emissions. Owing to the inherently cumulative nature of air quality impacts, the threshold for whether a project would make a cumulatively considerable contribution to a significant cumulative impact is simply whether the project would exceed project-level thresholds. As such, a qualitative evaluation of the cumulative projects supports a finding that the Project's contribution would not be cumulatively considerable because the proposed Project's incremental emissions would be less than significant.

2. INTRODUCTION

2.1 Purpose

This AQIA was prepared pursuant to the SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) (SJVAPCD 2015a), the Kern County Planning and Community Development Department's (KCPD) Air Quality Preparation Guidelines (KCPD 2006), and the California Environmental Quality Act (CEQA) Statute and Guidelines (CEQA 2025).

2.2 General Project Description

The Malibu Vineyards Industrial Parkway Project (Project) proposes to revise the existing land use and zoning (Agriculture) in support of the General Plan Amendment and Zone Change for the development of a light to medium industrial park (SI/M-2/PD) on approximately 739 gross acres containing a total of 8,907,446 square feet (sf) of unrefrigerated and refrigerated warehousing. The Project is located North of Imperial Avenue and generally East of State Route 99 with site access from Saco Road and Imperial Avenue, further described as a portion of Sections 24 & 25, T28S, R26E; and a portion of Sections 29 & 30, T28S, R27E, County of Kern, State of California. The Project will be developed in two phases. Phase 1 is East of the Lerdo Canal; Phase 2 is West of the Lerdo Canal. Assembly Bill 98 (AB 98) does not apply to this Project as the entitlement process began prior to September 30, 2024.

Figure 2-1 depicts the regional location and Figure 2-2 depicts an aerial view of the Project location. Construction of both phases is conservatively estimated to begin June 2025, with Phase 1 operations beginning 2050 and Phase 2 operations beginning in 2031. Defaults in the CalEEMod emissions model were applied to estimate a construction schedule based on the applicant's estimation of building 290,000 sf per year. The construction schedule conservative assumes that each Phase will start construction from the south most planning area.

Figure 2-1. Regional Location

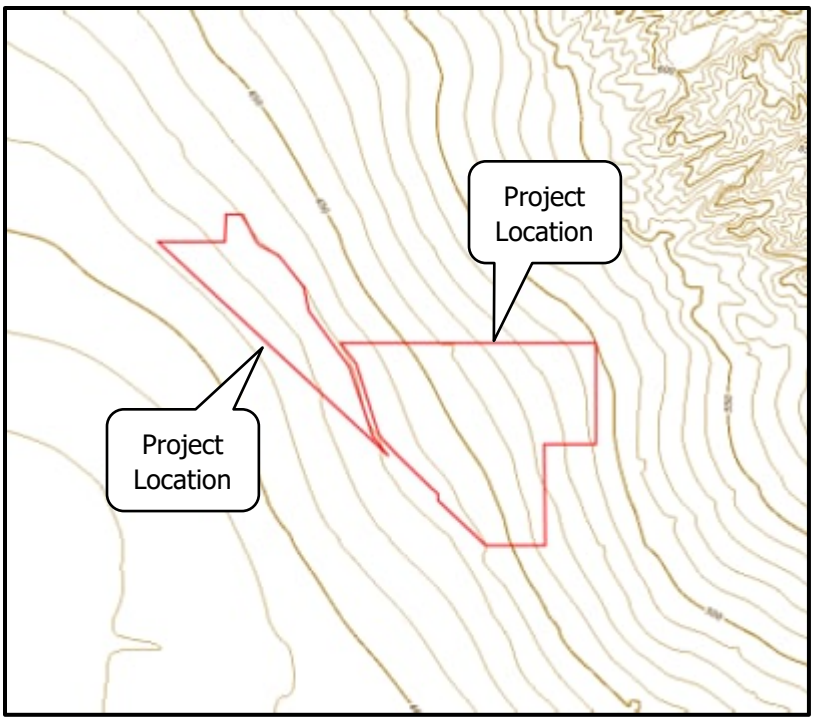


Figure 2-2. Project Location



Figure 2-3 depicts the Project site's topography based on Kern County GIS (2023). The Project site is located at an elevation of approximately 450 feet above mean sea level and is surrounded by agricultural land uses.

Figure 2-3. Project Site Topography



3. SETTING

Protection of the public health is maintained through the attainment and maintenance of ambient air quality standards for various atmospheric compounds and the enforcement of emissions limits for individual stationary sources. The Federal Clean Air Act requires that the U.S. Environmental Protection Agency (EPA) establish National Ambient Air Quality Standards (NAAQS) to protect the health, safety, and welfare of the public. NAAQS have been established for ozone (O_3), CO, NO_2, SO_2, PM_{10} and $PM_{2.5}$, and lead (Pb). California has also adopted ambient air quality standards (CAAQS) for these "criteria" air pollutants. CAAQS are more stringent than the corresponding NAAQS and include standards for hydrogen sulfide (H_2S), vinyl chloride (chloroethene), and visibility reducing particles. The U.S. Clean Air Act Amendments of 1977 required each state to identify areas that were in non-attainment of the NAAQS and to develop State Implementation Plans (SIP's) containing strategies to bring these non-attainment areas into compliance. NAAQS and CAAQS designation/classification for Kern County are presented in **Section 3.1** below.

Responsibility for regulation of air quality in California lies with the California Air Resources Board (CARB) and the 35 local air districts with oversight responsibility held by the EPA. CARB is responsible for regulating mobile source emissions, establishing CAAQS, conducting research, managing regulation development, and providing oversight and coordination of the activities of the 35 air districts. The air districts are primarily responsible for regulating stationary source emissions and monitoring ambient pollutant concentrations. CARB also determines whether air basins, or portions thereof, are "unclassified," in "attainment" or in "non-attainment" for the NAAQS and CAAQS relying on statewide air quality monitoring data.

3.1 Air Quality Standards

The Project area is located within Kern County's portion of the San Joaquin Valley Air Basin (SJVAB or Basin). Kern County is included among the eight counties that comprise the SJVAPCD. The SJVAPCD acts as the regulatory agency for air pollution control in the Basin and is the local agency empowered to regulate air pollutant emissions for the Project area. Table 3-1 provides the NAAQS and CAAQS.

Table 3-1. Federal & California Air Quality Standards

Pollutant	Averaging Time	NAAQS	CAAQS
		Concentration	
O_3	8-hour	0.070 ppm (137 µg/m^3)[a]	0.070 ppm (137 µg/m^3)
	1-hour		0.09 ppm (180 µg/m^3)
CO	8-hour	9 ppm (10 µg/m^3)	9 ppm (10 µg/m^3)
	1-hour	35 ppm (40 µg/m^3)	20 ppm (23 µg/m^3)
NO_2	Annual Average	53 ppb (100 µg/m^3)	0.030 ppm (57 µg/m^3)
	1-Hour	100 ppb (188.68 µg/m^3)	0.18 ppm (339 µg/m^3)
SO_2	3-Hour	0.5 ppm (1,300 µg/m^3)	
	24 Hour	0.14 ppm (365 µg/m^3)	0.04 ppm (105 µg/m^3)
	1-Hour	75 ppb (196 µg/m^3)	0.25 ppm (655 µg/m^3)
Particulate Matter (PM_{10})	Annual Arithmetic Mean		20 µg/m^3
	24-Hour	150 µg/m^3	50 µg/m^3
Fine Particulate Matter ($PM_{2.5}$)	Annual Arithmetic Mean	12 µg/m^3	9.0 µg/m^3
	24-Hour	35 µg/m^3	
Sulfates	24-Hour		25 µg/m^3
Pb[d]	Rolling Three-Month Average	0.15 µg/m^3	
	30 Day Average		1.5 µg/m^3
H_2S	1-Hour		0.03 ppm (42 µg/m^3)
Vinyl Chloride (chloroethene)	24-Hour		0.010 ppm (26 µg/m^3)
Visibility Reducing particles	8 Hour (1000 to 1800 PST)		[b]

ppm = parts per million
ppb = parts per billion
mg/m^3 = milligrams per cubic meter
µg/m^3 = micrograms per cubic meter

Source: CARB 2024

a. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm

b. In 1989, CARB converted both the general statewide 10-mile visibility standards and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Under the provisions of the U.S. Clean Air Act, the Kern County portion of the SJVAB has been classified as nonattainment/extreme, nonattainment/severe, nonattainment, attainment/unclassified, attainment, or unclassified under the established NAAQS and CAAQS for various criteria pollutants. Table 3-2 provides the SJVAB's designation and classification based on the various criteria pollutants under both NAAQS and CAAQS.

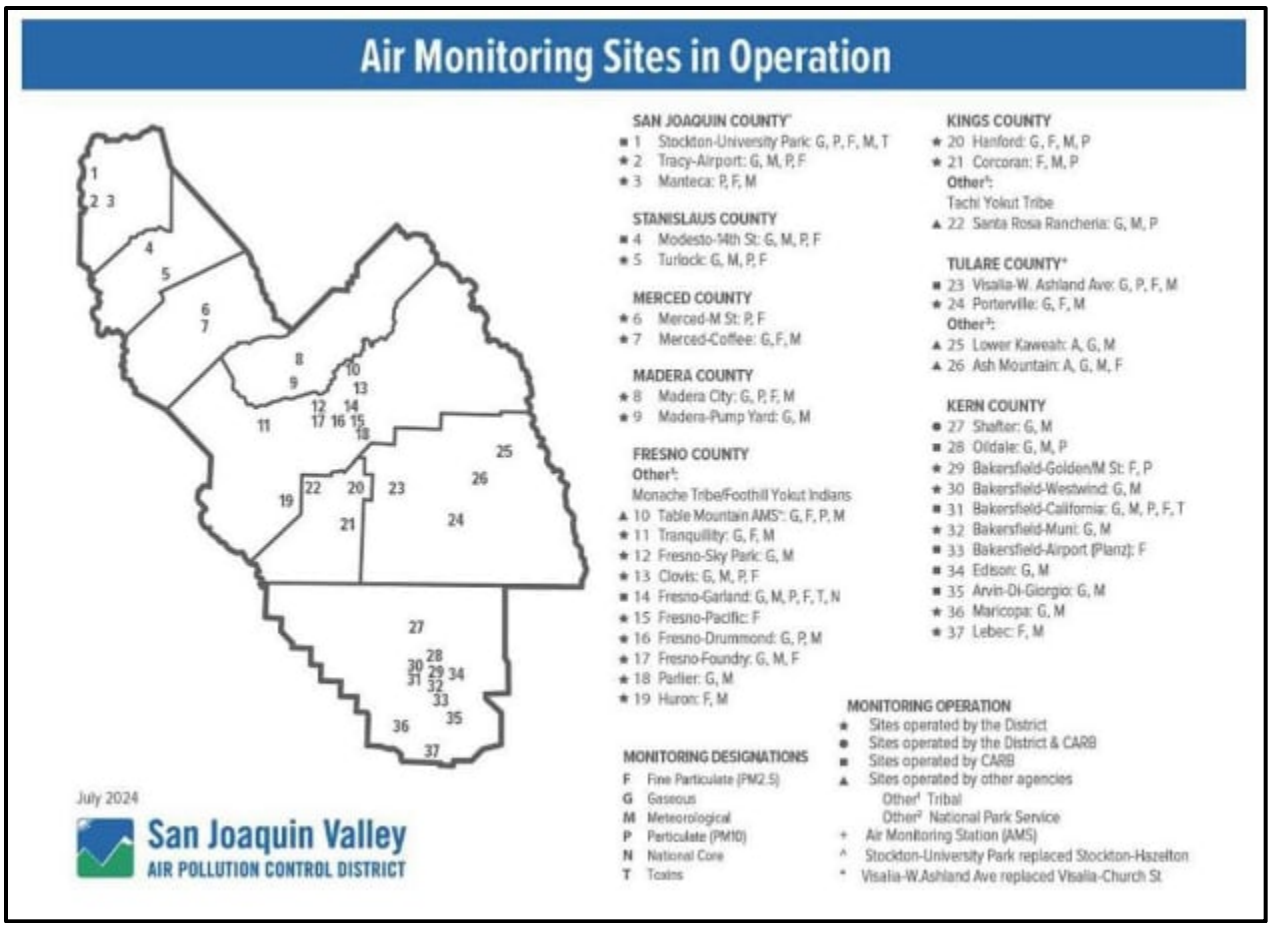
Table 3-2. SJVAB Attainment Status

Pollutant	NAAQS[a]	CAAQS[b]
O_3, 1-hour	No Federal Standard[f]	Nonattainment/Severe
O_3, 8-hour	Nonattainment/Extreme[e]	Nonattainment
PM_{10}	Attainment[c]	Nonattainment
$PM_{2.5}$	Nonattainment[d]	Nonattainment
CO	Attainment/Unclassified	Attainment/Unclassified
NO_2	Attainment/Unclassified	Attainment
SO_2	Attainment/Unclassified	Attainment
Pb (Particulate)	No Designation/Classification	Attainment
H_2S	No Federal Standard	Unclassified
Sulfates	No Federal Standard	Attainment
Visibility Reducing Particulates	No Federal Standard	Unclassified
Vinyl Chloride	No Federal Standard	Attainment

Source: SJVAPCD 2021a
Note:
a. See 40 CFR Part 81
b. See CCR Title 17 Sections 60200-60210
c. On September 25, 2008, EPA redesignated the San Joaquin Valley to attainment for the PM_{10} National Ambient Air Quality Standard (NAAQS) and approved the PM_{10} Maintenance Plan.
d. The Valley is designated nonattainment for the 1997 $PM_{2.5}$ NAAQS. EPA designated the Valley as nonattainment for the 2006 $PM_{2.5}$ NAAQS on November 13, 2009 (effective December 14, 2009).
e. Though the Valley was initially classified as serious nonattainment for the 1997 8-hour O_3 standard, EPA approved Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).
f. Effective June 15, 2005, the EPA revoked the federal 1-hour O_3 standard, including associated designations and classifications. EPA had previously classified the SJVAB as extreme nonattainment for this standard. EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan on March 8, 2010 (effective April 7, 2010). Many applicable requirements for extreme 1-hour O3 nonattainment areas continue to apply to the SJVAB.

The SJVAPCD, along with CARB, operates an air quality monitoring network that provides information on average concentrations of those pollutants for which Federal or State agencies have established NAAQS and CAAQS, respectively. The monitoring stations in the San Joaquin Valley are depicted in Figure 3-1.

Figure 3-1. SJVAPCD Monitoring Network



Source: SJVAPCD 2024a

3.2 Existing Air Quality

For the purposes of background data and this air quality analysis, this analysis relied on data collected in the last three years for the CARB monitoring stations that are located in the closest proximity to the project site. Table 3-3 provides the background concentrations for O_3, particulate matter of 10 microns (PM_{10}), particulate matter of less than 2.5 microns ($PM_{2.5}$), CO, NO_2, SO_2, and Pb. Information is provided for the Bakersfield-5558 California Avenue, Oildale-311 Manor Street, Bakersfield-Golden State Highway, and Shafter-Walker Street monitoring stations for 2021 through 2023. No data is available for H_2S, Vinyl Chloride or other toxic air contaminants in Kern County.

Table 3-3. Existing Air Quality Monitoring Data in Project Area

Pollutant and Monitoring Station Location	Maximum Concentration			Days Exceeding Standard		
	2021	2022	2023	2021	2022	2023
O_3 - 1-hour CAAQS (0.09 ppm)						
Bakersfield - 5558 California Ave	0.090	0.093	0.088	0	0	0
Oildale - 3311 Manor Street	0.107	0.106	0.089	6	4	0
Shafter - Walker Street	0.104	0.095	0.090	1	1	0
O_3 - 8-hour CAAQS (0.07 ppm)						
Bakersfield - 5558 California Ave	0.081	0.076	0.079	11	7	7
Oildale - 3311 Manor Street	0.095	0.091	0.083	46	54	14
Shafter - Walker Street	0.086	0.082	0.080	16	27	8
O_3 - 8-hour NAAQS (0.070 ppm)						
Bakersfield - 5558 California Ave	0.080	0.076	0.079	11	4	7
Oildale - 3311 Manor Street	0.095	0.090	0.082	43	51	13
Shafter - Walker Street	0.085	0.081	0.079	15	21	6
PM_{10} - 24-hour CAAQS (50 µg/m^3)						
Bakersfield - 5558 California Ave	439.3	133.0	180.2	124	135	106
Oildale - 3311 Manor Street	423.0	146.3	266.0	129	127	102
Bakersfield – Golden State Hwy	176.3	167.0	235.0	25	178	146
PM_{10} - 24-hour NAAQS (150 µg/m^3)						
Bakersfield-5558 California Ave	437.5	134.7	181.3	3	0	1
Oildale - 3311 Manor Street	421.4	149.4	270.4	2	0	1
Bakersfield - Golden State Hwy	175.0	64.7	236.3	1	0	1
$PM_{2.5}$ - 24-hour NAAQS (35 µg/m^3)						
Bakersfield - 5558 California Ave	72.3	58.1	63.7	40	34	9
Bakersfield - Golden State Hwy	78.5	58.6	58.0	43	33	9
CO - 8-Hour CAAQS & NAAQS (9.0 ppm)						
No data collected	*	*	*	*	*	*
NO_2 - 1-Hour CAAQS (0.18 ppm)						
Bakersfield - 5558 California Ave	0.057	0.053	0.057	0	0	0
Shafter - Walker Street	0.047	0.034	0.041	0	0	0
NO_2 - 1-Hour NAAQS (0.10 ppm)						
Bakersfield - 5558 California Ave	0.057	0.054	0.058	0	0	0
Shafter - Walker Street	0.048	0.035	0.042	0	0	0
SO_2 - 24-hour Concentration - CAAQS (0.04 ppm) & NAAQS (0.14 ppm)						
No data collected	*	*	*	*	*	*
Pb - Maximum 30-Day Concentration CAAQS (1500 ng/m^3)						
Bakersfield-5558 California Avenue	9.9	10.8	9.5	*	*	*

Source: CARB 2025a
Notes: ppm= parts per million
* There was insufficient (or no) data available to determine the value.

The following is a description of the criteria pollutants, typical sources, and health effects and the recently documented pollutant levels in the project vicinity.

3.2.1 Ozone (O_3)

The most severe air quality problem in the San Joaquin Valley is high concentrations of O_3. O_3 is not emitted directly into the atmosphere but is a secondary pollutant produced through photochemical reactions involving hydrocarbons and nitrogen oxides (NOx). Significant O_3 generation requires about one to three hours in a stable atmosphere with strong sunlight. For this reason, the months of April through October comprise the "ozone season." O_3 is a regional pollutant because O_3 precursors are transported and diffused by wind concurrently with the reaction process. The data contained in Table 3-3 shows that the Bakersfield, Oildale, and Shafter area exceeded the 1-hour average ambient O_3 CAAQS and the 8-hour average ambient O_3 NAAQS and CAAQS during the 2021 through 2023 period.

3.2.1.1 Ozone Health Impacts

High levels of O_3 cause eye irritation and can impair respiratory functions. O_3 can cause chest pain, coughing, shortness of breath, and throat irritation; it can also worsen chronic respiratory diseases such as asthma and compromise the ability of the body to fight respiratory infections. High levels of O_3 can also affect plants and materials. Grapes, lettuce, spinach and many types of garden flowers and shrubs are particularly vulnerable to O_3 damage.

3.2.2 Suspended Particulate Matter (PM_{10} and $PM_{2.5}$)

Both State and Federal particulate standards now apply to particulates under 10 microns (PM_{10}) rather than to total suspended particulate (TSP), which includes particulates up to 30 microns in diameter. Continuing studies have shown that the smaller-diameter fraction of TSP represents the greatest health hazard posed by the pollutant; therefore, EPA has recently established NAAQS for $PM_{2.5}$. The project area is classified as attainment for PM_{10} and non-attainment for particulates under 2.5 microns ($PM_{2.5}$) for NAAQS.

Particulate matter consists of particles in the atmosphere resulting from many kinds of dust and fume-producing industrial and agricultural operations, from combustion, and from atmospheric photochemical reactions. Natural activities also increase the level of particulates in the atmosphere; wind-raised dust and ocean spray are two sources of naturally occurring particulates. The largest sources of PM_{10} and $PM_{2.5}$ in Kern County are vehicle movement over paved and unpaved roads, demolition and construction activities, farming operations, and unplanned fires. PM_{10} and $PM_{2.5}$ are considered regional pollutants with elevated levels typically occurring over a wide geographic area. Concentrations tend to be highest in the winter, during periods of high atmospheric stability and low wind speed.

Table 3-3 shows that PM_{10} levels regularly exceeded the CAAQS but not the NAAQS at the Bakersfield and Oildale monitoring stations over the three-year period of 2021 through 2023. Table 3-3 shows that $PM_{2.5}$ NAAQS were exceeded from 2021 through 2023. Similar levels can be expected to occur in the vicinity of the Project site.

3.2.2.1 Suspended Particulate Matter Health Impacts

In the respiratory tract, very small particles of certain substances may produce injury by themselves or may contain absorbed gases that are injurious. Particulates of aerosol size suspended in the air can both scatter and absorb sunlight, producing haze and reducing visibility. They can also cause a wide range of damage to materials.

3.2.3 Carbon Monoxide (CO)

Ambient CO concentrations normally correspond closely to the spatial and temporal distributions of vehicular traffic. Relatively high concentrations of CO would be expected along heavily traveled roads and near busy intersections. Wind speed and atmospheric mixing also influence CO concentrations; however, under inversion conditions prevalent in the San Joaquin Valley, CO concentrations may be more uniformly distributed over a broad area.

Internal combustion engines, principally in vehicles, produce CO due to incomplete fuel combustion. Various industrial processes also produce CO emissions through incomplete combustion. Gasoline-powered motor vehicles are typically the major source of this contaminant. Table 3-3 reports no CO data is available for the three-year period from 2021 through 2023; historically, Bakersfield area data for CO has been below the CAAQS and NAAQS.

3.2.3.1 Carbon Monoxide Health Impacts

CO does not irritate the respiratory tract but passes through the lungs directly into the blood stream, and by interfering with the transfer of fresh oxygen to the blood, deprives sensitive tissues of oxygen, thereby aggravating cardiovascular disease, causing fatigue, headaches, and dizziness. CO is not known to have adverse effects on vegetation, visibility, or materials.

3.2.4 Nitrogen Dioxide (NO_2) and Hydrocarbons

Kern County has been designated as an attainment area for the NAAQS for NO_2. NO_2 is the "whiskey brown" colored gas readily visible during periods of heavy air pollution. Mobile sources and oil and gas production account for nearly all of the County's NOx emissions, most of which is emitted as NO_2. Combustion in motor vehicle engines, power plants, refineries and other industrial operations are the primary sources in the region. Railroads and aircraft are other potentially significant sources of combustion air contaminants. Oxides of nitrogen are direct participants in photochemical smog reactions. The emitted compound, nitric oxide, combines with oxygen in the atmosphere in the presence of hydrocarbons and sunlight to form NO_2 and O_3. NO_2, the most significant of these pollutants, can color the atmosphere at concentrations as low as 0.5 ppm on days of 10-mile visibility. NOx is an important air pollutant in the region because it is a primary receptor of ultraviolet light, which initiates the reactions producing photochemical smog. It also reacts in the air to form nitrate particulates.

Motor vehicles are the major source of reactive hydrocarbons in the basin. Other sources include evaporation of organic solvents and petroleum production and refining operations. Table 3-3 shows that the Federal and State NO_2 standards have not been exceeded at the monitoring stations over the three-year period of 2021 through 2023. Hydrocarbons are not currently monitored.

3.2.4.1 Nitrogen Dioxide and Hydrocarbons Health Impacts

Certain hydrocarbons can damage plants by inhibiting growth and by causing flowers and leaves to fall. Levels of hydrocarbons currently measured in urban areas are not known to cause adverse effects in humans. However, certain members of this contaminant group are important components in the reactions, which produce photochemical oxidants.

3.2.5 Sulfur Dioxide (SO_2)

Kern County has been designated as an attainment area for the NAAQS for SO_2. SO_2 is the primary combustion product of sulfur, or sulfur containing fuels. Fuel combustion is the major source of this pollutant, while chemical plants, sulfur recovery plants, and metal processing facilities are minor contributors. Gaseous fuels

(natural gas, propane, etc.) typically have lower percentages of sulfur containing compounds than liquid fuels such as diesel or crude oil. SO_2 levels are generally higher in the winter months. Decreasing levels of SO_2 in the atmosphere reflect the use of natural gas in power plants and boilers.

Table 3-3 shows no data has been reported over the three-year period in Kern County.

3.2.5.1 Sulfur Dioxide Health Impacts

At high concentrations, SO_2 irritates the upper respiratory tract. At lower concentrations, when respirated in combination with particulates, SO_2 can result in greater harm by injuring lung tissues. Sulfur oxides (SOx), in combination with moisture and oxygen, results in the formation of sulfuric acid, which can yellow the leaves of plants, dissolve marble, and oxidize iron and steel. SOx can also react to produce sulfates that reduce visibility and sunlight.

3.2.6 Lead (Pb) and Suspended Sulfate

Ambient Pb levels have dropped dramatically due to the increase in the percentage of motor vehicles that run exclusively on unleaded fuel. Ambient Pb levels in Bakersfield are well below the ambient standard and are expected to continue to decline; the data reported in Table 3-3 only shows the highest concentration as the number of days exceeding standards are not reported. Suspended sulfate levels have stabilized to the point where no excesses of the State standard are expected in any given year.

3.2.6.1 Lead and Suspended Sulfate Health Impacts

Pb affects most organs in the body, and children are most susceptible to the effects of Pb. In children, Pb can cause behavior and learning problems, slowed growth, anemia, and hearing problems. In adults, Pb can lead to decreased kidney function, reproductive problems, and cardiovascular effects, such as increased blood pressure and incidence of hypertension. Suspended sulfates are part of $PM_{2.5}$ and therefore have similar health effects. These health effects include reduced lung function, aggravated asthmatic symptoms, and increased risk of emergency department visits, hospitalizations, and death in people who have chronic heart or lung disease.

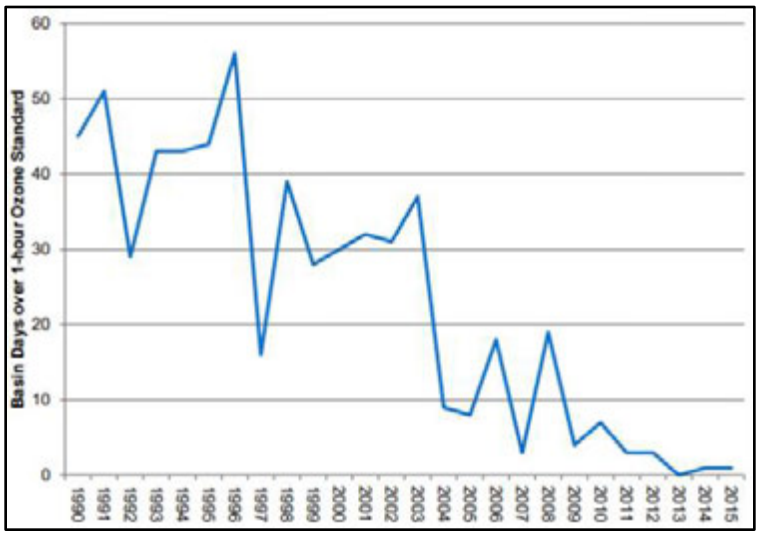
3.3 Regional Air Quality Trends

The Project is within the jurisdiction of the SJVAPCD. The SJVAPCD is made up of eight counties in California's Central Valley: San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare, and the western portion of Kern. This region makes up the SJVAB. The SJVAPCD is responsible for developing comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The SJVAPCD is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures. The SJVAPCD's air programs began development in the 1980s and has greatly improved the air quality in the San Joaquin Valley (Valley) (SJVAPCD 2024b). Emissions in the Valley have reduced drastically through clean air technology and emission control measures for stationary sources and area sources, while vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SJVAPCD is the lead agency charged with regulating air quality emission reductions for the entire SJVAB. SJVAPCD created various Air Quality Attainment Plans (AQAPs) which represent a regional blueprint for achieving healthful air in the Valley. Emissions of O_3, NOx, PM_{10}, and $PM_{2.5}$ have been decreasing in the Valley since 1980 and are project to continue to decrease despite challenging geography and meteorology that exacerbate the formation and retention of high levels of air pollution. In addition, the Valley is one of the fastest growing regions in California, with increasing population resulting in increasing

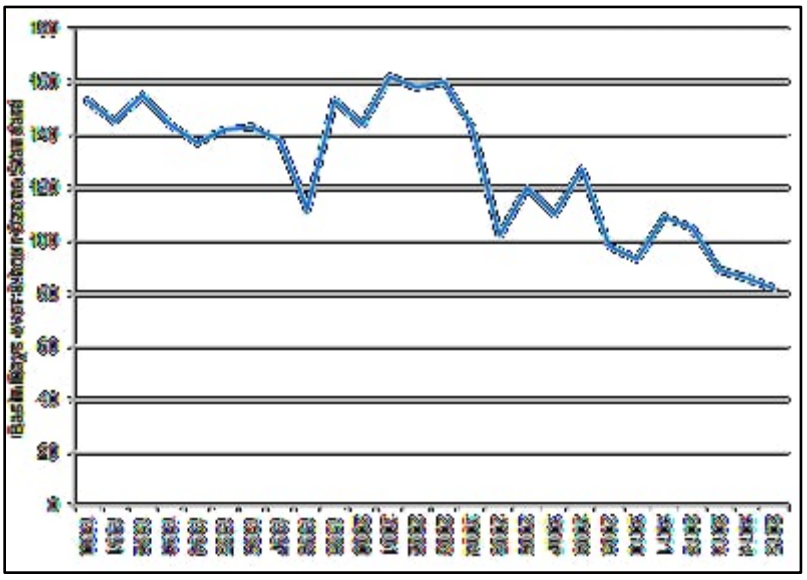
vehicle miles traveled (VMTs). Although vehicle miles traveled in the Valley continue to increase, NOx and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NOx emissions from electric utilities have also decreased due to the use of cleaner fuels and renewable energy. As shown in Figure 3-2 and 3-3, the total number of days exceeding federal O_3 1-hour and 8-hour standards (respectively) has significantly decreased since 1990.

Figure 3-2. Basin Days Exceeding O_3 1-Hour Standard



SJVAPCD 2016

Figure 3-3. Basin Days Exceeding O_3 8-Hour Standard

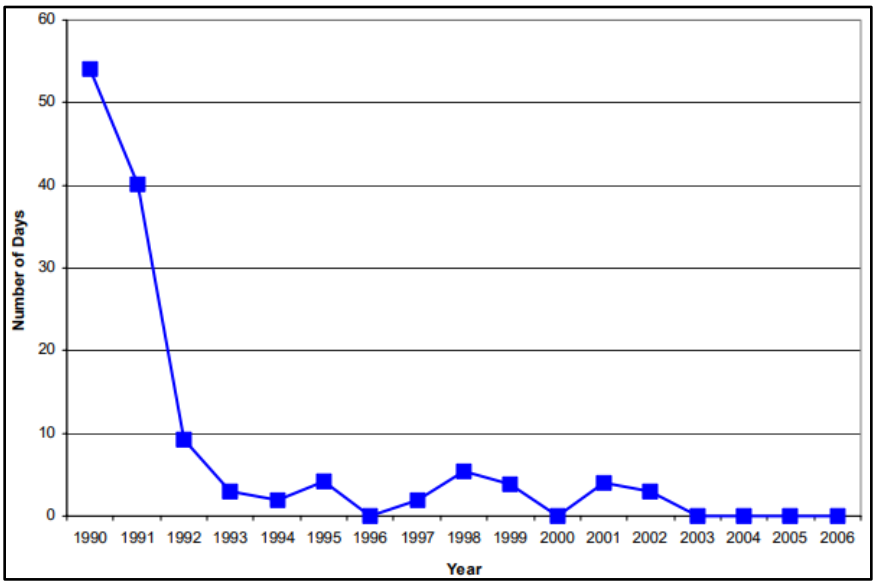


SJVAPCD 2016

The overall trends of PM_{10} and $PM_{2.5}$ levels in the air (not emissions) show an overall improvement since 1990. Area wide sources (fugitive dust from roads, consumer products, wood burning, and other sources) contribute the greatest amount of direct particulate matter emissions. PM_{10} levels in the Valley have improved greatly; San Joaquin Valley has not had a single 24-hour PM_{10} violation since 2003, as shown in Figure 3-4 (SJVAPCD 2007). $PM_{2.5}$ and NOx emissions have decreased significantly since 2000, as shown in Figure 3-5 and 3-6,

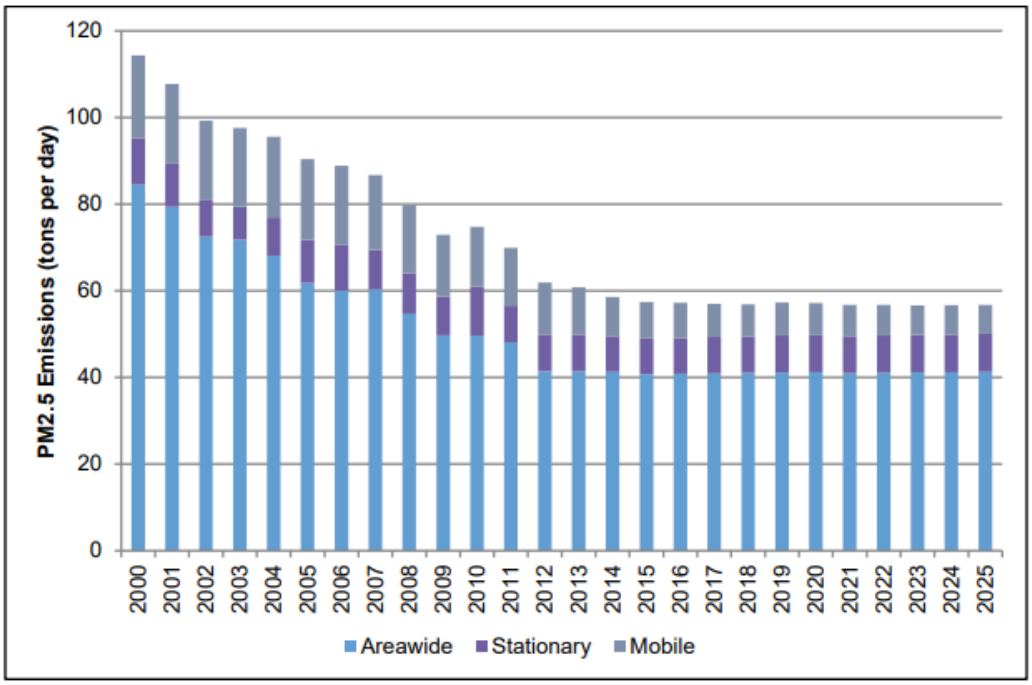
which also conservatively project emissions out to 2025. NOx is a significant $PM_{2.5}$ precursor, and the Valley is NOx-limited, so SJVAPCD relies heavily on NOx emissions to reduce $PM_{2.5}$ (SJVAPCD 2018). Figure 3-7 shows that average $PM_{2.5}$ concentrations have also decreased since 2000, despite low precipitation totals and increase in atmospheric stability, which provides evidence that the SJVAPCD and CARB efforts have been achieving permanent emissions reductions.

Figure 3-4. Number of Days Exceeding PM_{10} NAAQS



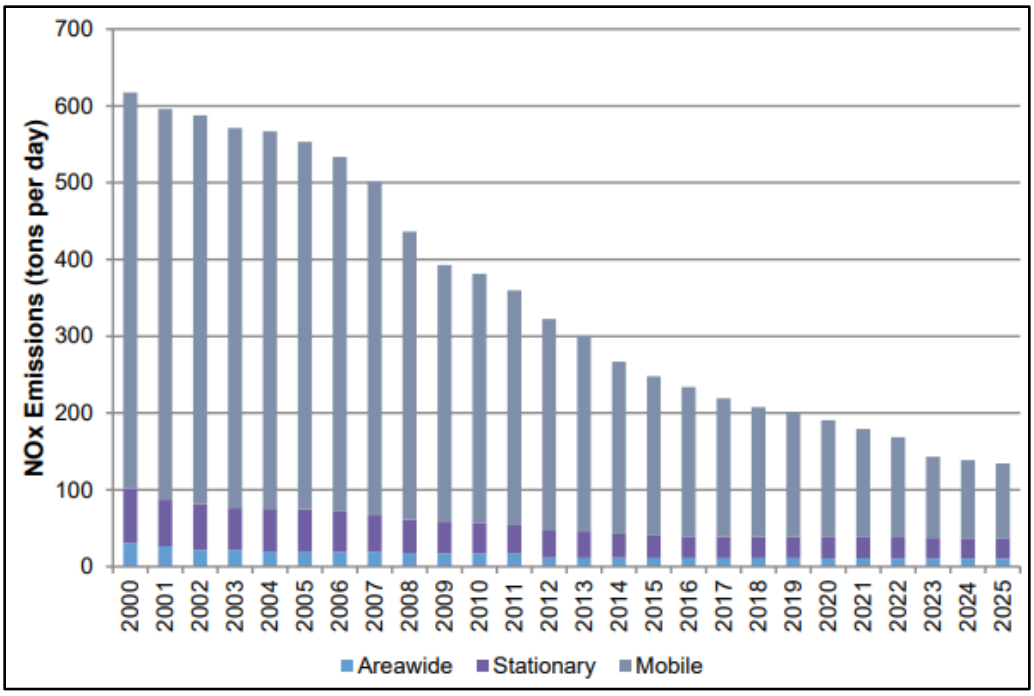
SJVAPCD 2018

Figure 3-5. Average Annual $PM_{2.5}$ Emissions



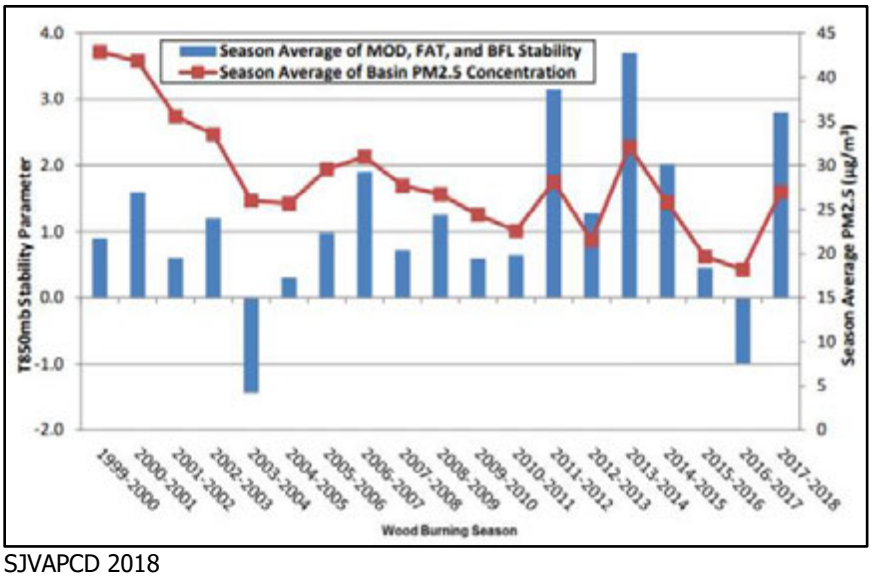
SJVAPCD 2018

Figure 3-6. Average Annual NOx Emissions



SJVAPCD 2018

Figure 3-7. Average $PM_{2.5}$ Concentrations

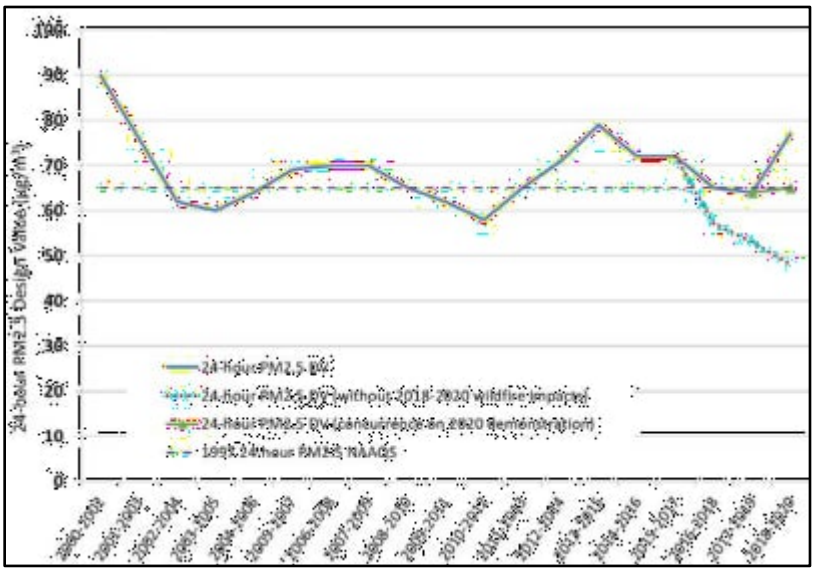


SJVAPCD 2018

California experienced its worst drought in over a century between 2011 and 2015. The lack of ample precipitation and extended periods of stagnation in the winter seasons overwhelmed the District's control measures and strategies, which contributed to higher than expected $PM_{2.5}$ concentrations in the Valley. In addition, the Valley experienced significant wildfire impacts as well as data collection issues at the Valley's peak air monitoring site in Bakersfield during the 2018-2020 period. Through the 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards (2018 $PM_{2.5}$ Plan), SJVAPCD submitted documentation to CARB and EPA to

demonstrate that the 1997 $PM_{2.5}$ 24-hour standard was met by the 2020 attainment target. The demonstration included documenting the severe wildfire impacts in 2020 as an "exceptional event". Figure 3-8 shows the Valley's 24-hour $PM_{2.5}$ design value through 2020, with trend lines for the design value including and excluding the exceptional event impacts. EPA formally approved the exceptional event in July 2021, so the Valley was able to demonstrate that it meets the 1997 $PM_{2.5}$ 24-hour standard (SJVAPCD 2021c).

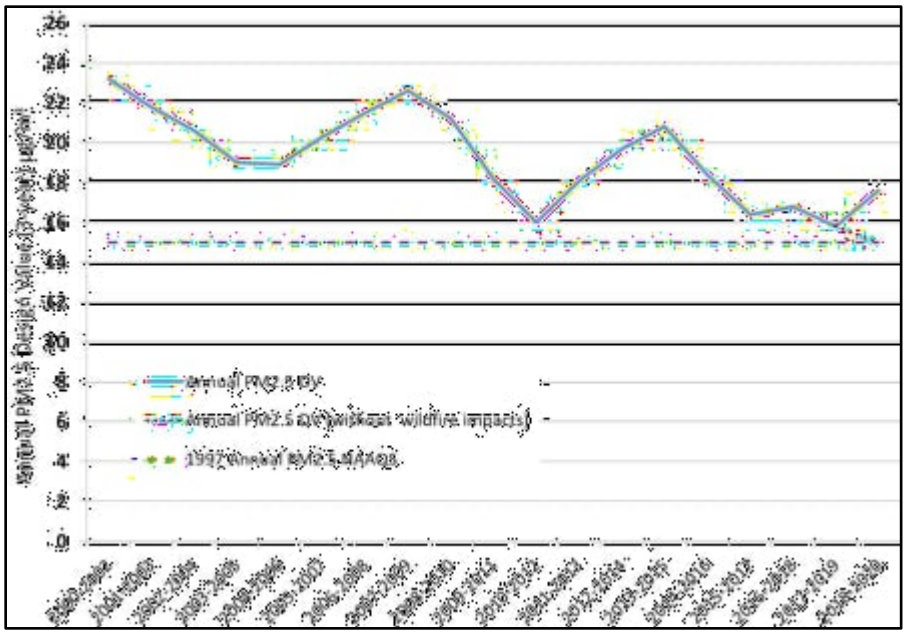
Figure 3-8. $PM_{2.5}$ 24-Hour Design Value Trend



SJVAPCD 2021c

Regarding the 1997 $PM_{2.5}$ annual standard, the Valley would have met the standard by 2020 if not for the significant wildfire impacts and the data collection issues. The annual $PM_{2.5}$ levels in the Valley have seen a continued steady decline, as shown in Figure 3-9. After excluding the exceptional event, only one Bakersfield monitoring site exceeded the annual standard due to the data collection issues. Due to this issue, SJVAPCD and CARB prepared an administrative revision to the 2018 $PM_{2.5}$ Plan to establish a new attainment target date for the 1997 annual $PM_{2.5}$ standard of December 31, 2023.

Figure 3-9. $PM_{2.5}$ Annual Average Design Value Trend



SJVAPCD 2021c

Through the combined efforts of SJVAPCD and CARB air programs, emissions of O_3, NOx, PM_{10}, and $PM_{2.5}$ in the Valley have decreased significantly. However, as the Valley is still in nonattainment for $PM_{2.5}$ and O_3, SJVAPCD continues to implement different strategies to meet the federal air quality standards.

3.4 Climate

The most significant single control on the weather pattern of the San Joaquin Valley is the semi-permanent subtropical high-pressure cell, referred to as the "Pacific High." During the summer, the Pacific High is positioned off the coast of northern California, diverting ocean-derived storms to the north. Hence, the summer months are virtually rainless. During the winter, the Pacific High moves southward allowing storms to pass through the San Joaquin Valley. Almost all of the precipitation expected during a given year occurs from December through April. During the summer, the predominant surface winds are out of the northwest. Air enters the Valley through the Carquinez strait and flows toward the Tehachapi Mountains. This up-valley (northwesterly) wind flow is interrupted in early fall by the emergence of nocturnal, down-valley (southeasterly) winds which become progressively more predominant as winter approaches. Wind speeds are generally highest during the spring and lightest in fall and winter. The relatively cool air flowing through the Carquinez strait is warmed on its journey south through the Valley. On reaching the southern end of the Valley, the average high temperature during the summer is nearly 100 degrees Fahrenheit (°F). Relative humidity during the summer is quite low, causing large diurnal temperature variations. Temperatures during the summer often drop into the upper 60s. In winter, the average high temperatures reach into the mid-50s and the average low drops to the mid-30s. In addition, another high-pressure cell, known as the "Great Basin High," develops east of the Sierra Nevada Mountain Range during winter. When this cell is weak, a layer of cool, damp air becomes trapped in the basin and extensive fog results. During inversions, vertical dispersion is restricted, and pollutant emissions are trapped beneath the inversion and pushed against the mountains, adversely affecting regional air quality. Surface-based inversions, while shallow and typically short-lived, are present most mornings. Elevated inversions, while less frequent than ground-based inversions, are typically longer lasting and create the more severe air stagnation problems. The winter season characteristically has the poorest conditions for vertical mixing of the entire year.

Meteorological data for various monitoring stations is maintained by the Western Regional Climate Center. Meteorological data for the Project site is expected to be similar to the data recorded at the Bakersfield AP monitoring station. This data is provided in Table 3-4, which contains average precipitation data recorded at the Bakersfield AP monitoring station. Over the 79-year period from October of 1937 through June of 2016 (the most recent data available), the average annual precipitation was 6.17 inches.

Table 3-4. Bakersfield AP Weather Data

Period of Record Monthly Climate Summary for the Period 10/01/1937 to 6/09/2016													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Avg. Maximum Temp (F)	57.4	63.3	69.0	75.7	84.2	92.1	98.6	96.7	91.0	80.5	67.3	57.8	77.8
Avg. Minimum Temp (F)	38.5	42.1	45.4	49.7	56.6	63.3	69.2	67.7	63.1	54.0	44.1	38.5	52.7
Average Total Precipitation (in.)	1.04	1.16	1.12	0.67	0.21	0.07	0.01	0.04	0.10	0.3	0.59	0.85	6.17
Average Snowfall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent of possible observations for period of record: Max. Temp.: 99.6% Min. Temp.: 99.6% Precipitation: 99.7% Snowfall: 92.4% Snow Depth: 92.2%													

Source: Western Regional Climate Center, 2023.

3.5 Climate Change and Greenhouse Gases

3.5.1 Global Climate Change

"Global climate change" refers to change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms, lasting for decades or longer. The term "global climate change" is often used interchangeably with the term "global warming," but "global climate change" is preferred by some scientists and policy makers to "global warming" because it helps convey the notion that in addition to rising temperatures, other changes in global climate may occur. Climate change may result from the following influences:

- Natural factors, such as changes in the sun's intensity or slow changes in the Earth's orbit around the sun;
- Natural processes within the climate system (e.g., changes in ocean circulation); and/or
- Human activities that change the atmosphere's composition (e.g., through burning fossil fuels) and the land surface (e.g., deforestation, reforestation, urbanization, and desertification).

As determined from worldwide meteorological measurements between 1990 and 2005, the primary observed effect of global climate change has been a rise in the average global tropospheric temperature of 0.36 degree Fahrenheit (°F) per decade. Climate change modeling shows that further warming could occur, which could induce additional changes in the global climate system during the current century. Changes to the global climate system, ecosystems, and the environment of California could include higher sea levels, drier or wetter weather, changes in ocean salinity, changes in wind patterns or more energetic aspects of extreme weather (e.g., droughts, heavy precipitation, heat waves, extreme cold, and increased intensity of tropical cyclones). Specific effects from climate change in California may include a decline in the Sierra Nevada snowpack, erosion of California's coastline, and seawater intrusion in the Sacramento-San Joaquin River Delta.

Natural earth systems and human activities, including fossil fuel combustion and land use changes, both release carbon dioxide (CO_2) and other compounds cumulatively termed greenhouse gases (GHGs). GHGs are effective at trapping radiation that would otherwise escape the atmosphere. This trapped radiation warms the atmosphere, the oceans, and the earth's surface (USGCRP, 2014). Many scientists believe "most of the warming observed over the last 50 years is attributable to human activities" (IPCC, 2017). The increased amount of CO_2 and other GHGs in the atmosphere is the alleged primary result of human-induced warming.

GHGs are present in the atmosphere naturally, released by natural sources, or formed from secondary reactions taking place in the atmosphere. They include CO_2, methane (CH_4), nitrous oxide (N_2O), and O_3. In the last 200 years, substantial quantities of GHGs have been released into the atmosphere, primarily from fossil fuel combustion. These human-induced emissions are increasing GHG concentrations in the atmosphere, therefore enhancing the natural greenhouse effect. The GHGs resulting from human activity are believed to be causing global climate change. While human-made GHGs include CO_2, CH_4, and N_2O, some (like chlorofluorocarbons [CFCs]) are completely new to the atmosphere. GHGs vary considerably in terms of Global Warming Potential (GWP), the comparative ability of each GHG to trap heat in the atmosphere. The GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and the length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant GHG. The definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of "CO_2 equivalents" (CO_2e).

Methane is produced when organic matter decomposes in environments lacking sufficient oxygen. Natural sources of CH_4 production include wetlands, termites, and oceans. Human activity accounts for an estimated 50-65% of combined methane emissions of the approximately 500 million metric tons of CH_4 emitted annually (U.S. EPA, n.d.). These anthropogenic sources include the mining and burning of fossil fuels; digestive processes in ruminant livestock such as cattle; rice cultivation; and the decomposition of waste in landfills. The major removal process for atmospheric CH_4, the chemical breakdown in the atmosphere, cannot keep pace with source emissions; therefore, CH_4 concentrations in the atmosphere are rising.

Worldwide emissions of GHGs in 2008 were 30.1 billion metric tons of CO_2e and have increased considerably since that time (United Nations, 2011). It is important to note that the global emissions inventory data are not all from the same year and may vary depending on the source of the data (U.S. EPA, 2019). Emissions from the top five emitting countries and the European Union accounted for approximately 70% of total global anthropogenic GHG emissions in 2014. Of these anthropogenic emissions, the United States was the number two producer of GHG emissions behind China. The primary GHG emitted by human activities was CO_2, representing approximately 78.8% of total global anthropogenic GHG emissions (U.S. EPA, 2022).

In 2020, the United States emitted approximately 5,981.4 million metric tons of CO_2e. Of the six major sectors nationwide (transportation, electric power industry, industry, agriculture, commercial, and residential), the transportation and electric power industry sectors combined account for approximately 52% of the US anthropogenic GHG emissions; the majority of the electrical power industry and all of the transportation emissions are generated from direct fossil fuel combustion. Between 1990 and 2020, total United States GHG emissions have decreased by approximately 7.3% (U.S. EPA, 2022).

Worldwide, energy-related CO_2 emissions are expected to increase at an average rate of 0.6% annually between 2018 and 2050, compared with the average growth rate of 1.8% per year from 1990 to 2018. Much of the increase in these emissions is expected to occur in the developing world where emerging economies, such as China and India, fuel economic development and advance overall standard of living with fossil fuel energy. Developing countries' emissions are expected to grow above the world average at a rate of

approximately 1% annually between 2018 and 2050 and surpass emissions of industrialized countries by 2025 (U.S. EIA, 2019).

CARB is responsible for developing and maintaining the California GHG emissions inventory. This inventory estimates the amount of GHGs emitted into and removed from the atmosphere by human activities within the state of California and supports the Assembly Bill (AB) 32 Climate Change Program. CARB's current GHG emission inventory covers the years 2000 through 2017 and is based on fuel use, equipment activity, industrial processes, and other relevant data (e.g., housing, landfill activity, and agricultural lands).

In 2019, emissions from statewide emitting activities were 418.2 million metric tons of CO_2 equivalent (MMT CO_2e), which is 7 MMT CO_2e lower than 2018 levels. 2019 emissions have decreased since peak levels in 2004 and are 13 MMT CO_2e below the 1990 emissions level and the State's 2020 GHG limit. Per capita GHG emissions in California have dropped from a 2001 peak of 14.1 tonnes per person to 10.5 tonnes per person in 2019, a 25% decrease (CARB 2021a).

CARB estimates that transportation was the source of approximately 40% of California's GHG emissions in 2017, followed by electricity generation at 15%. Other sources of GHG emissions were industrial sources at 21%, residential plus commercial activities at 11%, and agriculture at 8% (CARB 2021a).

CARB has projected the estimated statewide GHG emissions for the year 2020, which represent the emissions that would be expected to occur with reductions anticipated from Pavley I and the Renewables Electricity Standard (30 MMT CO_2e total), will be 509 MMT of CO_2e (CARB, 2014). GHG emissions from the transportation and electricity sectors as a whole are expected to increase at approximately 36% and 20% of total CO_2e emissions, respectively, as compared to 2009. The industrial sector consists of large stationary sources of GHG emissions and the percentage of the total 2020 emissions is projected to be 18% of total CO_2e emissions. The remaining sources of GHG emissions in 2020 are high global warming potential gases at 6%, residential and commercial activities at 10%, agriculture at 7%, and recycling and waste at 2%.

3.5.2 Effects of Global Climate Change

Changes in the global climate are assessed using historical records of temperature changes that have occurred in the past. Climate change scientists use this temperature data to extrapolate a level of statistical significance specifically focusing on temperature records from the last 150 years (the Industrial Age) that differ from past climate changes in rate and magnitude.

The Intergovernmental Panel on Climate Change (IPCC) constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. In its Fifth Assessment Report, the IPCC predicted that the global mean temperature change from 1990 to 2100 could range from 1.1 degree Celsius (°C) to 6.4 °C (8 to 10.4 °Fahrenheit) (IPCC, 2013). Global average temperatures and sea levels are expected to rise under all scenarios (IPCC, 2014). The IPCC concluded that global climate change was largely the result of human activity, mainly the burning of fossil fuels. However, the scientific literature is not consistent regarding many of the aspects of climate change, the actual temperature changes during the 20th century, and contributions from human versus non-human activities.

Effects from global climate change may arise from temperature increases, climate sensitive diseases, extreme weather events, and degradation of air quality. There may be direct temperature effects through increases in average temperature leading to more extreme heat waves and less extreme cold spells. Those living in warmer climates are likely to experience more stress and heat-related problems. Heat-related problems include heat rash and heat stroke, drought, etc. In addition, climate-sensitive diseases may increase, such as those spread by mosquitoes and other disease-carrying insects. Such diseases include malaria, dengue fever, yellow fever,

and encephalitis. Extreme events such as flooding and hurricanes can displace people and agriculture. Global warming may also contribute to air quality problems from increased frequency of smog and particulate air pollution.

According to the 2006 California Climate Action Team (CAT) Report, several climate change effects can be expected in California over the course of the next century (CalEPA, 2006). These are based on trends established by the IPCC and are summarized below.

- A diminishing Sierra snowpack declining by 70% to 90%, threatening the state's water supply.
- A rise in sea levels, resulting in the displacement of coastal businesses and residences. During the past century, sea levels along California's coast have risen about seven inches. If emissions continue unabated and temperatures rise into the higher anticipated warming range, sea level is expected to rise an additional 22 to 35 inches by the end of the century. Sea level rises of this magnitude would inundate coastal areas with salt water, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. (Note: This condition would not affect the Proposed Project area, as it is a significant distance away from coastal areas.)
- An increase in temperature and extreme weather events. Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in California. More heat waves can exacerbate chronic disease or heat-related illness.
- Increased risk of large wildfires if rain increases as temperatures rise. Wildfires in the grasslands and chaparral ecosystems of southern California are estimated to increase by approximately 30% toward the end of the 21st century because more winter rain will stimulate the growth of more plant fuel available to burn in the fall. In contrast, a hotter, drier climate could promote up to 90% more northern California fires by the end of the century by drying out and increasing the flammability of forest vegetation.
- Increasing temperatures from 8 to 10.4 °F under the higher emission scenarios, leading to a 25% to 35% increase in the number of days that ozone pollution levels are exceeded in most urban areas (see below).
- Increased vulnerability of forests due to forest fires, pest infestation, and increased temperatures.
- Reductions in the quality and quantity of certain agricultural products. The crops and products likely to be adversely affected include wine grapes, fruit, nuts, and milk.
- Exacerbation of air quality problems. If temperatures rise to the medium warming range, there could be 75 to 85% more days with weather conducive to ozone formation in Los Angeles and the San Joaquin Valley, relative to today's conditions. This is more than twice the increase expected if rising temperatures remain in the lower warming range. This increase in air quality problems could result in an increase in asthma and other health-related problems.
- A decrease in the health and productivity of California's forests. Climate change can cause an increase in wildfires, an enhanced insect population, and establishment of non-native species.
- Increased electricity demand, particularly in the hot summer months.
- Increased ground-level ozone formation due to higher reaction rates of ozone precursors.

3.5.3 Global Climate Change Regulatory Issues

In 1988, the United Nations established the Intergovernmental Panel on Climate Change to evaluate the impacts of global warming and to develop strategies that nations could implement to curtail global climate change. In 1992, the United Nations Framework Convention on Climate Change established an agreement with the goal of controlling GHG emissions, including methane. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs. Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of

compounds that deplete O_3 in the stratosphere (chlorofluorocarbons [CFCs], halons, carbon tetrachloride, and methyl chloroform) were phased out by 2000 (methyl chloroform was phased out by 2005).

On September 27, 2006, Assembly Bill 32 (AB32), the California Global Warming Solutions Act of 2006 (the Act) was enacted by the State of California. The legislature stated, "Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California." The Act caps California's GHG emissions at 1990 levels by 2020. The Act defines GHG emissions as all of the following gases: carbon dioxide (CO_2), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. This agreement represents the first enforceable statewide program in the U.S. to cap all GHG emissions from major industries that includes penalties for non-compliance. While acknowledging that national and international actions will be necessary to fully address the issue of global warming, AB32 lays out a program to inventory and reduce GHG emissions in California and from power generation facilities located outside the state that serve California residents and businesses.

AB32 charges CARB with responsibility to monitor and regulate sources of GHG emissions in order to reduce those emissions. CARB has adopted a list of discrete early action measures that can be implemented to reduce GHG emissions. CARB has defined the 1990 baseline emissions for California and has adopted that baseline as the 2020 statewide emissions cap. CARB is conducting rulemaking for reducing GHG emissions to achieve the emissions cap by 2020. In designing emission reduction measures, CARB must aim to minimize costs, maximize benefits, improve and modernize California's energy infrastructure, maintain electric system reliability, maximize additional environmental and economic co-benefits for California, and complement the state's efforts to improve air quality.

Subsequent legislation by the California legislature has included Senate Bill (SB) 32, which expanded upon AB32 to reduce GHG emissions to 40% below the 1990 levels by 2030; AB197 which increased the legislative oversight of the CARB by adding two legislatively appointed non-voting members to the CARB Board and provided additional protection to disadvantaged communities; SB350, which increased California's renewable energy electricity procurement goal and SB100, which established a landmark policy requiring renewable energy and zero-carbon resources to supply 100 percent of electrical retail sales to end use customers and 100 percent of electricity procured to serve state agencies by 2045.

Global warming and climate change have received substantial public attention for more than 20 years. For example, the United States Global Change Research Program was established by the Global Change Research Act of 1990 to enhance the understanding of natural and human-induced changes in the Earth's global environmental system, to monitor, understand, and predict global change, and to provide a sound scientific basis for national and international decision-making. Even so, the analytical tools have not been developed to determine the effect on worldwide global warming from a particular increase in GHG emissions, or the resulting effects on climate change in a particular locale. The scientific tools needed to evaluate the impacts that a specific project may have on the environment are even farther in the future.

The California Supreme Court's CEQA decision on the Newhall Ranch development case, Center for Biological v. California Department of Fish and Wildlife (November 30, 2015, Case No. 217763), determined that the project's Environmental Impact Report (EIR) did not substantiate the conclusion that the GHG cumulative impacts would be less than significant. The EIR determined that the Newhall Ranch development project would reduce GHG emissions by 31 percent from business as usual (BAU). This reduction was compared to the California's target of reducing GHG emissions statewide by 29 percent from business as usual. The Court determined that "the EIR's deficiency stems from taking a quantitative comparison method developed by the Scoping Plan as a measure of the greenhouse gas reduction effort required by the state as a whole, and attempting to use that method, without adjustments, for a purpose very different from its original design." In the Court's final ruling it offered suggestions that were deemed appropriate use of the BAU methodology:

1. Lead agencies can use the comparison to BAU methodology if they determine what reduction a particular project must achieve in order to comply with statewide goals,
2. Project design features that comply with regulations to reduce emissions may demonstrate that those components of emissions are less that significant, and
3. Lead agencies could also demonstrate compliance with locally adopted climate plans or could apply specific numerical thresholds developed by some local agencies.

Kern County, the Lead CEQA agency for this Project, has not developed specific thresholds for GHGs. As discussed in Section 4.1, the SJVAPCD, a CEQA Trustee Agency for this Project, has developed thresholds to determine significance of a proposed project – either implement Best Performance Standards or achieve a 29% reduction from BAU (a specific numerical threshold). However, the SJVAPCD has established their BAU and baseline emissions based on the years 2002-2004 and 2020, respectively. The 2020 projected baseline has passed, and at this time, no new guidance has been approved for determining BAU and projected baseline for the next target year. Therefore, the 29% reduction from BAU cannot be applied to the subject Project in order to determine significance. Additionally, a Best Performance Standards threshold has not been established. For this Project, compliance with locally adopted climate plans will be used to determine level of significance for GHG. Therefore, the GHG analysis for this Project follows the suggestions from the Court's ruling on the Newhall Ranch development project in order to determine significance using the project design features.

4. IMPACT ASSESSMENT

4.1 Significance Criteria

To determine whether a proposed Project could create a potential CEQA impact, local, State, and Federal agencies have developed various means by which a project's impacts may be measured and evaluated. Such means can generally be categorized as follows:

- Thresholds of significance adopted by air quality agencies to guide lead agencies in their evaluation of air quality impacts under the CEQA.
- Regulations established by air districts, CARB and EPA for the evaluation of stationary sources when applying for Authorities to Construct, Permits to Operate and other permit program requirements (e.g., New Source Review).
- Thresholds utilized to determine if a project would cause or contribute significantly to violations of the ambient air quality standards or other concentration-based limits.
- Regulations applied in areas where severe air quality problems exist.

Summary tables of these emission-based and concentration-based thresholds of significance for each pollutant are provided below along with a discussion of their applicability.

4.1.1 Thresholds Adopted for the Evaluation of Air Quality Impacts under CEQA

In order to maintain consistency with CEQA, the SJVAPCD (2015) adopted guidelines to assist applicants in complying with the various requirements. According to the SJVAPCD's GAMAQI, a project would have potentially significant air quality impacts when the project:

- Creates a conflict with or obstructs implementation of the applicable air quality plan;
- Causes a violation of any air quality standard or generates substantial contribution towards exceeding an existing or projected air quality standard;
- Results in a cumulatively considerable net increase of any criteria pollutant for which the project region is designated non-attainment under a NAAQS and CAAQS (including emissions which exceed quantitative thresholds for O_3 precursors);
- Exposes sensitive receptors to substantial pollutant concentrations; or
- Creates objectionable odors that affect a substantial number of people.

The SJVAPCD GAMAQI thresholds are designed to implement the general criteria for air quality emissions as required in the CEQA Guidelines, Appendix G, Paragraph III (Title 14 of the California Code of Regulations §15064.7) and CEQA (California Public Resources Code Sections 21000 et. al). SJVAPCD's specific CEQA air quality thresholds are presented in Table 4-1.

Table 4-1. SJVAPCD CEQA Thresholds of Significance

Criteria Pollutant	Significance Level		
	Construction	Operational (Permitted Equipment)	Operational (Non-Permitted Equipment)
CO	100 tons/yr	100 tons/yr	100 tons/yr
NOx	10 tons/yr	10 tons/yr	10 tons/yr
ROG	10 tons/yr	10 tons/yr	10 tons/yr
SOx	27 tons/yr	27 tons/yr	27 tons/yr
PM_{10}	15 tons/yr	15 tons/yr	15 tons/yr
$PM_{2.5}$	15 tons/yr	15 tons/yr	15 tons/yr
Source: SJVAPCD 2015a			

4.1.2 Thresholds for Ambient Air Quality Impacts

CEQA Guidelines – Appendix G (Environmental Checklist) states that a project that would "violate any air quality standard or contribute substantially to an existing or projected air quality violation" would be considered to create significant impacts on air quality. Therefore, an AQIA should determine whether the emissions from a project would cause or contribute significantly to violations of the NAAQS or CAAQS (presented above in Table 3-1) when added to existing ambient concentrations.

The EPA has established the Federal Prevention of Significant Deterioration (PSD) program to determine what comprises "significant impact levels" (SIL) to NAAQS attainment areas. A project's impacts are considered less than significant if emissions are below PSD SIL for a particular pollutant. When a SIL is exceeded, an additional "increment analysis" is required. As the Project would not include modification to the stationary source under NSR, it would not be subject to either PSD or NSR review. The PSD SIL thresholds are used with ambient air quality modeling for a CEQA project to address whether the Project would "violate any air quality standard or contribute substantially to an existing or projected air quality violation." Ambient air quality emissions estimates below the PSD SIL thresholds would result in less than significant ambient air quality impacts for both a project and cumulative CEQA impact analysis. The SJVAB is classified as non-attainment for the O_3 NAAQS and, as such, is subject to "non-attainment new source review" (NSR). PSD SILs and increments are more stringent than the CAAQS or NAAQS and represent the most stringent thresholds of significance.

4.1.3 Thresholds for Hazardous Air Pollutants

The SJVAPCD's GAMAQI states, "From a health risk perspective there are basically two types of land use projects that have the potential to cause long-term public health risk impacts:

- Type A Projects: Land use projects that will place new toxic sources in the vicinity of existing receptors.
- Type B Projects: Land use projects that will place new receptors in the vicinity of existing toxics sources" (SJVAPCD 2015a).

Table 4-2 presents the thresholds of significance used with toxic air contaminants when evaluating hazardous air pollutants (HAPs).

Table 4-2. Measures of Significance - Toxic Air Contaminants

Agency	Level	Description
Significance Thresholds Adopted for the Evaluation of Impacts Under CEQA		
SJVAPCD	Carcinogens	Maximally Exposed Individual risk **equals or exceeds** 20 in one million.
	Non-Carcinogens	**Acute**: Hazard Index **equals or exceeds** 1 for the Maximally Exposed Individual.
		Chronic: Hazard Index **equals or exceeds** 1 for the Maximally Exposed Individual.
Source: SJVAPCD 2015b		

4.1.4 Cumulative Impacts Threshold of Significance

Attachment A of Kern County's Guidelines for Preparing an Air Quality Assessment for Use in Environmental Impact Reports states "the following threshold are defined for purposes of determining cumulative effects as the baseline for "considerable". "Projects in the San Joaquin Valley Air Pollution Control District…will be subject to the following significance thresholds". The thresholds outlined in the guidelines mirror the individual project significance thresholds of 15 tons per year for PM_{10} and 10 tons per year for NO_X and ROG. Therefore, owing to the inherently cumulative nature of air quality impacts, the threshold for whether a project would make a

cumulatively considerable contribution to a significant cumulative impact is simply whether the project would exceed project-level thresholds.

4.1.5 Global Climate Change Thresholds of Significance

On December 17, 2009, SJVAPCD adopted Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA (SJVAPCD 2009); which outlined the SJVAPCD's methodology for assessing a project's significance for GHGs under CEQA. The following criteria was outlined in the document to determine whether a project could have a significant impact:

- Projects determined to be exempt from the requirements of CEQA would be determined to have a less than significant individual and cumulative impact for GHG emissions and would not require further environmental review, including analysis of project specific GHG emissions. Projects exempt under CEQA would be evaluated consistent with established rules and regulations governing project approval and would not be required to implement BPS.
- Projects complying with an approved GHG emission reduction plan or GHG mitigation program which avoids or substantially reduces GHG emissions within the geographic area in which the project is located would be determined to have a less than significant individual and cumulative impact for GHG emissions. Such plans or programs must be specified in law or approved by the lead agency with jurisdiction over the affected resource and supported by a CEQA compliant environmental review document adopted by the lead agency. Projects complying with an approved GHG emission reduction plan or GHG mitigation program would not be required to implement BPS.
- Projects implementing Best Performance Standards would not require quantification of project specific GHG emissions. Consistent with CEQA Guidelines, such projects would be determined to have a less than significant individual and cumulative impact for GHG emissions.
- Projects not implementing Best Performance Standards would require quantification of project specific GHG emissions and demonstration that project specific GHG emissions would be reduced or mitigated by at least 29%, compared to Business-as-Usual (BAU), including GHG emission reductions achieved since the 2002-2004 baseline period. Projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less than significant individual and cumulative impact for GHG.
- Notwithstanding any of the above provisions, projects requiring preparation of an Environmental Impact Report for any other reason would require quantification of project specific GHG emissions. Projects implementing BPS or achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less than significant individual and cumulative impact for GHG.

Kern County, the Lead CEQA agency for this Project, has not developed specific thresholds for GHGs. As discussed in Section 4.1, the SJVAPCD, a CEQA Trustee Agency for this Project, has developed thresholds to determine significance of a proposed project – either implement Best Performance Standards or achieve a 29% reduction from BAU (a specific numerical threshold). However, the SJVAPCD has established their BAU and baseline emissions based on the years 2002-2004 and 2020, respectively. The 2020 projected baseline has passed, and at this time, no new guidance has been approved for determining BAU and projected baseline for the next target year. Therefore, the 29% reduction from BAU cannot be applied to the subject Project in order to determine significance. Additionally, a Best Performance Standards threshold has not been established. For this Project, compliance with locally adopted climate plans will be used to determine level of significance for GHG. Therefore, the GHG analysis for this Project follows the suggestions from the Court's ruling on the Newhall Ranch development project in order to determine significance using the project design features.

4.2 Project Related Emissions

This document was prepared pursuant to the SJVAPCD's GAMAQI. The GAMAQI identifies separate thresholds for a project's short-term (construction) and long-term (operational) emissions.

Project emissions were estimated for the following project development stages:

- Short-term (Construction and Demolition) – Construction emissions of the proposed Project were estimated in CalEEMod using the proposed construction schedule and defaults for construction equipment for the development of 8,462,074 square feet of distribution warehousing and 445,372 square feet of refrigerated warehousing on 739 gross acres.
- Long-term (Operations) – Long term emissions were also estimated in CalEEMod using model defaults for operations of 8,462,074 square feet of unrefrigerated warehousing and 445,372 square feet of refrigerated warehousing. Vehicle trip rates were revised per the Project Trip Generation data provided in the Traffic Impact Study (Ruettgers and Schuler 2022). The trip generation is provided in Appendix B. The commercial-nonwork (C-NW) trip distance was revised to a standard 50-mile distance for distribution warehousing. Transportation Refrigeration Unit (TRU) emissions were calculated separately from CalEEMod using data from CARB's Off-Road Web Query (v1.1.0)(CARB 2021b).

4.2.1 Short-Term Emissions

The Project applicant did not provide a list of specific construction equipment but provided a construction schedule of approximately 290,000 sf per year; the construction emissions were, therefore, based on the default CalEEMod equipment list for the proposed Project's land use type and development intensity and applying model defaults as well as a conservative analysis approach. Construction emissions were estimated under the assumption that both phases will begin construction June 2025. The dates entered into the CalEEMod program represent the earliest construction timeline, which would estimate the worst-case emissions as construction equipment technology and emissions improve over time; therefore, all estimated emission totals are conservative and reflect a reasonable and legally sufficient estimate of potential impacts.

SJVAPCD's required measures for all projects were also applied:

- Water exposed areas 3 times per day; and
- Reduce vehicle speed to less than 15 miles per hour.

Table 4-3 presents the maximum annual emissions for the Project's short-term construction period. A detailed breakdown of the annual construction emissions is provided in Appendix B, and the CalEEMod reports are provided in Appendix C.

Table 4-3. Short-Term Project Emissions

Emissions Source	Pollutant (tons/year)					
	ROG	NOX	CO	SO_2	PM_{10}	$PM_{2.5}$
Unmitigated						
Maximum Annual Emissions	2.64	3.78	6.50	0.01	1.16	0.51
Mitigated						
Maximum Annual Emissions	2.64	3.78	6.50	0.01	0.98	0.33
Significance Threshold	**10**	**10**	**100**	**27**	**15**	**15**
Is Threshold Exceeded After Mitigation?	No	No	No	No	No	No

Source: Trinity Consultants 2025

As calculated with CalEEMod, the estimated short-term construction-related emissions for criteria pollutants would not exceed SJVAPCD significance threshold levels during any given year and would therefore be *less than significant*.

4.2.2 Long-Term Operations Emissions

Long-term emissions are caused by operational mobile, area, and energy sources. Long-term emissions would consist of the following components:

4.2.2.1 Fugitive Dust Emissions

Operation of the Project site at full build-out is not expected to present a substantial source of fugitive dust (PM_{10}) emissions. The main source of PM_{10} emissions would be from vehicular traffic associated with the Project site. CalEEMod calculates off-site road dust emissions according to the methodology described in USEPA's AP-42, Section 13.2.1, *Paved Roads*, and Section 13.2.2, *Unpaved Roads*. The calculations include the following parameters: road silt loading, average vehicle weight (tons), material silt content, material moisture content, and mean vehicle speed (mph). CalEEMod assumes 100% paved road travel based on the Project location.

PM_{10}, on its own as well as in combination with other pollutants, creates a health hazard. The SJVAPCD's Regulation VIII establishes required controls to reduce and minimize fugitive dust emissions. The following SJVAPCD Rules and Regulations apply to the proposed Project (and all projects):

- Rule 4102 – Nuisance – prohibits a facility from posing as a nuisance to surrounding receptors and can impose penalties for nuisance issues such as dust, smoke, excess emissions, etc. Compliance with this rule ensures that the area around the Project site will not be adversely impacted by such issues.
- Regulation VIII – Fugitive PM_{10} Prohibitions – a series of regulations to reduce and/or eliminate generation of particulate matter (PM) that can adversely impact visibility as well as the health and safety of people on-site or in the vicinity of the Project.
  - Rule 8011 – General Requirements – this rule is to reduce ambient concentrations of fine particulate matter (PM_{10}) by requiring actions to prevent, reduce or mitigate anthropogenic (human-caused) fugitive dust emissions.
  - Rule 8021 – Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities – restricts generation of airborne dust and visibility impacts from these activities. Places limits on opacity and equipment operation under certain adverse weather conditions.
  - Rule 8041 – Carryout and Trackout – requires that equipment and vehicles leaving the construction site control the amount of dirt, soil or mud that is tracked offsite and onto public roadways. This helps eliminate or minimize dust generation and opacity degradation.

- Rule 8051 – Open Areas – limits fugitive dust from open areas, i.e., areas on a construction site that are not actively being constructed upon but may generate wind-blown dust.

The Project would comply with applicable SJVAPCD Rules and Regulations, the local zoning codes, and additional emissions reduction measures recommended later in this analysis, in Section 7, Mitigation and Other Recommended Measures.

4.2.2.2 Exhaust Emissions

Project-related transportation activities from employees and consumers would generate mobile source ROG, NOx, SOx, CO, PM_{10}, and $PM_{2.5}$ exhaust emissions. Exhaust emissions would vary substantially from day to day but would average out over the course of an operational year. The variables factored into estimating total Project emissions include level of activity, site characteristics, weather conditions, and number of visitors. As the Project is not expected to generate an adverse change in current activity levels, substantial emissions are not anticipated.

The fleet mix used in CalEEMod was adjusted to reflect Project-specific estimates. The traffic study (Ruettgers and Schuler, 2022) provided daily trip rates for trucks and passenger vehicles, broken down by phase. The trip generation table is provided in Appendix B. Based on traffic estimates, 62% of the truck trips are expected to be heavy heavy duty (HHD) trucks. HHD truck trips were entered into CalEEMod as 62%, with the remaining 38% of truck trips distributed across the remaining truck types. The fleet mix for the passenger vehicles was also adjusted in CalEEMod to use a weighted ratio across the three passenger vehicle types. The trip rate adjustment is provided in Appendix B.

Since 5% of the land use is anticipated to be refrigerated warehousing, it is assumed that 5% of all trucks will have TRU units. TRU emissions were calculated separately from CalEEMod using data from CARB's Off-Road Web Query (v1.1.0).

4.2.2.3 Consumer Products

CalEEMod calculates fugitive VOC emissions from three types of consumer products (non-industrial solvents): general category, pesticides/fertilizers, and parking degreasers (CAPCOA 2022b). As specified by Appendix C of the CalEEMod User Guide, the general category emission factor is used for the warehousing land use types, and the parking degreaser emission factor is used for the Parking land use type. The parking degreasing emission factor is based on CARB's California Emissions Projection Analysis Model (CEPAM2019v1.03). The general category emission factor is based on statewide VOC emissions data collected by CARB's Consumer Product Emission Inventory. The general category emission factor is based on a combination of commercial, residential, and industrial usage. A revised general category emission factor was calculated for specifically industrial usage based on the data available from Appendix E of the CalEEMod User Guide. The calculation is provided in Appendix B.

4.2.2.4 Architectural Coatings

CalEEMod calculates VOC off-gassing emissions that result from evaporation of solvents contained in surface coatings such as in paints and primers. A ten percent (10%) reapplication rate per year (full reapplication every 10 years) is assumed in the model, along with SJVAPCD specific nonresidential exterior and non-residential interior VOC emission factors. CalEEMod calculates the building surface area as two times the building square footage for non-residential land use; 75% of the building surface area is assumed to be the interior, and the remaining 25% is assumed to be the exterior. For Parking land use, CalEEMod calculates surface area as 0.05 times the lot square footage; 90% of the lot surface area is assumed to be the interior, and the remaining 10% is assumed to be the exterior.

4.2.2.5 Landscape Equipment

The Project site is estimated to be developed with up to landscaped areas that would require periodic management with the use of landscape equipment that would generate air pollutant emissions. CalEEMod calculates fuel combustion emissions from landscape maintenance, which includes equipment such as lawn mowers, shredders/grinders, leaf blowers, and equipment associated with snow removal. CalEEMod uses emission factors developed through CARB's Small Off-Road Engines Model v1.1 (SORE2020) to calculate landscape equipment emissions. The emission factor for commercial landscape equipment is based on the total square footage of non-residential building space and is used for all non-residential land uses. The emission factor is then multiplied by the number of snow days and the number of summer days for the project location. Winter in the Sierra is cold and wet, with over 70 percent of the year's precipitation falling between November and March, usually as snow (National Park Service, 2021). The number of snow days and summer days is based on the CalEEMod default for Kern County, San Joaquin portion (0 days and 180 days, respectively). Although some portion of landscape equipment would be expected to be electric powered; this analysis conservatively assumes that all landscape equipment would be gas powered.

4.2.2.6 Energy Emissions

CalEEMod calculates criteria pollutant and GHG emissions from electricity and natural gas usage. CalEEMod generates default electricity and natural gas consumption based on the Electricity Demand Forecast Zone (EDFZ), which is defined by the project location, and the land use types and building square footage. CalEEMod differentiates between electricity usage subject to Title 24 standards, which is generally building usage, and electricity usage not subject to Title 24 standards. CalEEMod's default ratio of Title 24 to non-Title 24 electricity usage was applied to the Project's total estimated electricity usage. CalEEMod only calculates GHG emissions associated with electricity usage; the GHG emission factors are specific to the electric utility, which CalEEMod determines based on project location.

4.2.2.7 Water Supply and Wastewater Treatment Emissions

CalEEMod calculates indirect GHG emissions from the electricity used to supply, distribute, and treat water and wastewater generated by land use development projects (CAPCOA 2022b). CalEEMod calculates outdoor and indoor water consumption by land use type and uses default water energy-intensity factors based on a study published by the Pacific Institute (CAPCOA 2022b). The factors, which are reported in kilowatt hours per million gallons of water used (kWh/MG), represent the electricity need to supply and convey water from the source, treat the water to usable standards, and distribute the water to the individual user. The report calculated the energy intensity factors based on the hydrologic region of the project. These factors assume water is supplied from the source, which involves groundwater pumping and water delivery.

For wastewater treatment emissions, CalEEMod has default emission factors for the type of treatment process: septic tank, aerobic, or facultative lagoons. The percentage of each treatment process type is based on the project location.

4.2.2.8 Solid Waste Emissions

CalEEMod calculates the indirect GHG emissions associated with waste that is disposed of at a landfill. The model uses annual waste disposal rates from the California Department of Resources Recycling and Recovery (CalRecycle) data for individual land use types (CAPCOA 2022b). CalEEMod quantifies the GHG emissions associated with the decomposition of solid waste.

4.2.2.9 Projected Emissions

The proposed Project is expected to have long-term air quality impacts as shown in Table 4-4. The output from the CalEEMod runs are available in Appendix C, and the TRU calculations are available in Appendix B.

Table 4-4. Post-Project (Operational) Emissions

Emissions Source	Pollutant (tons/year)					
	ROG	NOX	CO	SOx	PM_{10}	$PM_{2.5}$
Unmitigated Operational Emissions						
Phase 1						
Mobile Emissions	2.56	48.94	47.08	0.54	36.09	9.96
Mobile Emissions – TRU	0.30	2.33	0.28	0.00	0.08	0.07
Aera Emissions	6.55	0.24	28.67	0.00	0.05	0.04
Energy Emissions	0.10	1.88	1.58	0.01	0.14	0.14
Phase 1 Total	*9.51*	*53.40*	*77.61*	*0.55*	*36.36*	*10.21*
Phase 2						
Mobile Emissions	0.86	13.62	13.52	0.14	8.26	2.31
Aera Emissions	1.50	0.05	6.52	0.00	0.01	0.01
Energy Emissions	0.02	0.44	0.37	0.00	0.03	0.03
Phase 2 Total	*2.39*	*14.11*	*20.40*	*0.15*	*8.30*	*2.35*
Total	**11.90**	**67.51**	**98.01**	**0.70**	**44.66**	**12.56**
Mitigated Operational Emissions (Mitigated with VERA[1])						
Final Operational Emissions	*0*	*0*	*98.01*	*0.70*	*0*	*0*
SJVAPCD Threshold	**10**	**10**	**100**	**27**	**15**	**15**
Is Threshold Exceeded After Mitigation?	No	No	No	No	No	No

Source: Trinity Consultants 2025
1. See Section 7.4 for discussion on VERA.

As shown in Table 4-4, operation-related emissions, as calculated by CalEEMod (see Appendix C), would be less than the SJVAPCD significant threshold levels for CO, SOx, and $PM_{2.5}$ but would exceed significant threshold levels for ROG, NOx, and PM_{10}, prior to additional mitigation. However, ROG, NOx, and PM_{10} (and $PM_{2.5}$ as a result of PM_{10}) emissions will be mitigated by implementation of a Voluntary Emissions Reduction Agreement (VERA). Therefore, the proposed Project would have a *less than significant impact* during Project operations.

4.3 Potential Impact on Sensitive Receptors

Sensitive receptors are defined as locations where young children, chronically ill individuals, the elderly, or people who are more sensitive than the general population reside, such as schools, hospitals, nursing homes, and daycare centers. There are five non-residential sensitive receptors within 2 miles of the Project site shown below in Table 4-5. Per discussion with KCPD, no potential or planned sensitive receptors have been identified within the 2-mile radius.

Table 4-5. Sensitive Receptors Located < 2 Miles from Project

Receptor	Type of Facility	Distance from Project (Miles)	Direction from Project
Train Park	Park	0.42	S/SW
Farm Park	Park	0.46	S/SW
Flight Park	Park	0.83	S/SW
Triangle Park	Park	1.07	S/SW
Norris Middle School	Junior High School	2.00	S

Additionally, the City of Shafter has been designated as an Assembly Bill (AB) 617 disadvantaged community. Figure 4-1 below shows the disadvantaged community boundary in purple and its proximity to the Project, outlined in red. The Project is located a little over 6 miles away from the disadvantaged community boundary.

Figure 4-1. City of Shafter Disadvantaged Community Boundary



4.4 Potential Impacts to Visibility to Nearby Areas

Visibility impact analyses are intended for stationary sources of emissions which are subject to the Prevention of Significant Deterioration (PSD) requirements in 40 CFR Part 60; they are not usually conducted for area sources. Because the Project's PM_{10} emissions increase is predicted to be less than the PSD threshold levels, an impact at any Class 1 area or military/airspace operation within 100 kilometers of the Project (including San Rafael Wilderness, Domeland Wilderness, Edwards Air Force Base, China Lake Naval Weapons Station, and the entire R-2508 Airspace Complex) is extremely unlikely. Therefore, based on the Project's predicted less-than significant PM_{10} emissions, the Project would be expected to have a less than significant impact to visibility at any Class 1 area or military/airspace operation.

4.5 Potential Impacts from Carbon Monoxide

Ambient CO concentrations normally correspond closely to the spatial and temporal distributions of vehicular traffic. Relatively high concentrations of CO would be expected along heavily traveled roads and near busy intersections. CO concentrations are also influenced by wind speed and atmospheric mixing. CO concentrations may be more uniformly distributed when inversion conditions are prevalent in the valley. Under certain meteorological conditions, CO concentrations along a congested roadway or intersection may reach unhealthful levels for sensitive receptors, e.g. children, the elderly, hospital patients, etc. This localized impact can result in elevated levels of CO, or "hotspots" even though concentrations at the closest air quality monitoring station may be below NAAQS and CAAQS.

The localized Project impacts depend on whether ambient CO levels in the Project vicinity would be above or below NAAQS. If ambient levels are below the standards, a project is considered to have significant impacts if a project's emissions would exceed one or more of these standards. If ambient levels already exceed a state standard, a project's emissions are considered significant if they would increase one-hour CO concentrations by 10 ppm or more or eight-hour CO concentrations by 0.45 ppm or more. There are two criteria established by the SJVAPCD's GAMAQI by which CO "Hot Spot" modeling is required:

1. A traffic study for the project indicates that the Level of Service (LOS) on one or more streets or at one or more intersections in the project vicinity would be reduced to LOS E or F; or
2. A traffic study indicates that the project would substantially worsen an already existing LOS F on one or more streets or at one or more intersections in the project vicinity.

A traffic study was completed for this Project (Ruettgers & Schuler, 2022). According to the traffic study, impacted intersections and roadway segments are not anticipated to operate at a LOS of C or better, even with mitigation. However, CO "Hotspot" Modeling was not conducted for this Project because CO emissions for this Project are below significance thresholds. Therefore, no concentrated excessive CO emissions are expected to be caused once the proposed Project is completed.

4.6 Predicted Health Risk Impacts

The GAMAQI recommends that Lead Agencies consider situations wherein a new or modified source of HAPs is proposed for a location near an existing residential area or other sensitive receptor when evaluating potential impacts related to HAPs.

The proposed Project would result in emissions of Hazardous Air Pollutants (HAPs) and would be located near existing residents; therefore, an assessment of the potential risk to the population attributable to emissions of hazardous air pollutants from the proposed Project is required.

To predict the potential health risk to the population attributable to emissions of HAPs from the proposed Project, ambient air concentrations were predicted with dispersion modeling to arrive at a conservative estimate of increased individual carcinogenic risk that might occur as a result of continuous exposure over a 70-year lifetime. Similarly, predicted concentrations were used to calculate non-cancer chronic and acute hazard indices (HIs), which are the ratio of expected exposure to acceptable exposure. The basis for evaluating potential health risk is the identification of sources with increased HAPs. HAP emissions from anticipated construction equipment during construction and from anticipated heavy heavy duty (HHD) trucks during operations of the Project were evaluated.

4.6.1 Air Dispersion Modeling (AERMOD)

Air dispersion modeling is used to estimate off-site air concentrations of chemicals associated with facility emissions. Developed to replace the Industrial Source Complex Short-Term Version 3 (ISCST3) model, AERMOD is a steady-state Gaussian plume model that can be used to assess ground level pollutant concentrations from a wide variety of sources (point, line, area, or volume) for distances up to approximately 50 km, including urban and rural terrains. AERMOD can calculate ground level concentrations for various averaging periods, such as acute short-term exposures (1-hour averaging), chronic long term exposures (annual averages), or other required meteorological data periods (i.e., 3-hour, 8-hour, 24-hour). The assumptions used for this model are listed below.

- AERMOD — Version 24142
- Projection — Universal Transverse Mercator (UTM)
- Datum — World Geodetic System (WGS84)
- UTM — Zone 11
- Hemisphere — Northern
- Selection — Hourly and Period
- AERMOD File — .AMI and .AMZ
- AERMOD Output File — Plot File by Source
- Use Regulatory Default? — Yes
- Urban or Rural? — Rural
- Building Downwash? — Yes

Health risk is determined using the Hotspots Analysis and Reporting Program (HARP2) software distributed by the CARB; HARP2 requires peak 1-hour emission rates and annual-averaged emission rates for all pollutants for each modeling source (CARB 2015). Assumptions used to calculate the emission rates for the proposed Project are outlined below.

4.6.1.1 Sources

To assess health risk impacts associated with Project construction emissions, combustion emissions from diesel on-site construction equipment and heavy heavy duty (HHD) trucks from hauling and vendor trips were modeled as an area source for on-site construction activity on the property. A unit emission rate of 1 grams/second (g/sec) was input to AERMOD as a normalized emission rate. This normalized emission rate generates a file that contains the partial contribution of each source to the total air concentration in units of micrograms per cubic meter (g/m^3) at each receptor. This AERMOD output file is then used as an input file into HARP2, which is discussed in Section 4.6.2.

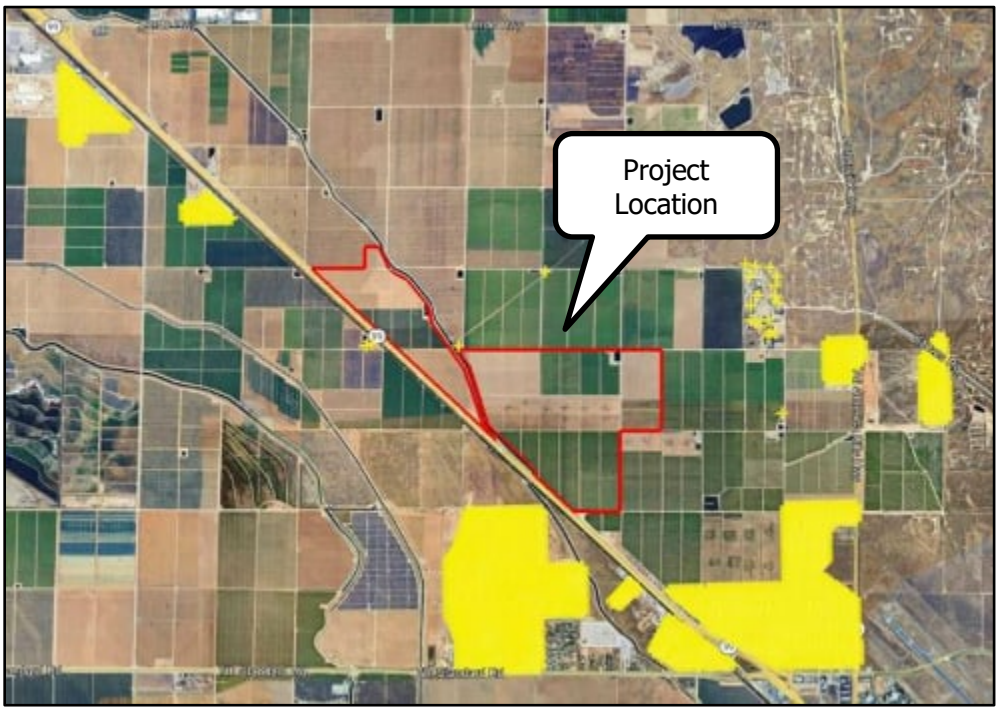
For operational health impacts, diesel combustion emissions from diesel HHD trucks making 14,378 trips per week were modeled as volume line sources for a quarter mile of off-site travel in addition to on-site travel following the most impactful route of travel. HHD truck idling emissions were modeled as a point source with fifteen minutes of idling per trip. Since 5% of the land use is anticipated to be refrigerated warehousing, it is assumed that 5% of all trucks will have TRU units. TRU emissions for off-site and on-site traveling are modeled similarly to the HHD trucks. For idling, TRUs were modeled as point sources with 30 minutes of idling per trip per SJVAPCD guidance[1].

[1] General email correspondence with Diana DeSouza at SJVAPCD

4.6.1.2 Receptors

Discrete receptors were placed on residences and businesses within close proximity of the Project site. A total of 6,449 discrete off-site receptors analyzed. The receptors are shown below in Figure 4-2. Elevated terrain options were employed even though there is not complex terrain in the Project area.

Figure 4-2. Receptors Analyzed for Health Risk



4.6.1.3 Meteorological Data

SJVAPCD-provided, AERMET UStar processed meteorological datasets for the Bakersfield monitoring station, calendar years 2018 through 2022 was input to AERMOD (SJVAPCD 2023). This was the most recent available dataset available at the time the modeling was conducted. Rural dispersion parameters were used because the operation and the majority of the land surrounding the facility is considered "rural" under the Auer land use classification method (Auer 1978).

4.6.2 HARP2

Plot files generated by AERMOD were uploaded to the Air Dispersion Modeling and Risk Assessment Tool (ADMRT) program in the Hotspots Analysis and Reporting Program Version 2 (HARP2) (CARB 2015). ADMRT post-processing was used to assess the potential for excess cancer risk and chronic non-cancer effects using the most recent health effects data from the California EPA Office of Environmental Health Hazard Assessment (OEHHA).

4.6.2.1 Toxic Emissions Quantification

Diesel particulate matter was calculated based on the CalEEMod output of PM_{10} for on-site construction equipment. It is conservatively assumed that all PM_{10} exhaust from CalEEMod is diesel particulate matter. For operations, PM_{10} emission factors for HHD truck travel and HHD truck idling were pulled from EMFAC for Kern County, year 2050, annual (CARB 2025c). PM_{10} emissions from TRUs while traveling were calculated using

data from CARB's Off-Road Web Query (v1.1.0). TRU idling PM_{10} emissions were calculated based on SJVAPCD guidance, which is derived from CARB's TRU database 1085_v1. The model conservatively assumes all PM_{10} emissions from diesel combustion are diesel particulate matter.

Since each year of construction has different emissions, the HARP2 analysis was conducted for each year of construction based on the output emissions for that year. The results of each construction year were then summed to get the total health risk across the full construction timeline.

4.6.2.1.1 Health Impacts of Diesel Particulate Matter (DPM)

Short term exposure to high concentrations to DPM can cause headache, dizziness, and irritation of the eye, nose, and throat. Long term exposure can increase the risk of cardiovascular, cardiopulmonary and respiratory disease, and lung cancer.

4.6.2.2 Exposure

HARP2 site parameters were set for the mandatory minimum pathways (inhalation, soil ingestion, dermal, and mother's milk) and homegrown produce. For the construction analysis, the start age was shifted by one year for each consecutive construction year per discussion with SJVAPCD (2025 start age – 3rd trimester, 2026 start age – 1 year, etc.). As required by SJVAPCD, time away from home adjustments were not applied in HARP2. Risk reports were generated using the derived OEHHA analysis method for carcinogenic risk and non-carcinogenic chronic and acute risk. Site parameters are included in the HARP2 output files. Total cancer risk was predicted for each receptor. A hazard index was computed for chronic non-cancer health effects for each applicable endpoint and each receptor. A hazard index for acute non-cancer health effects was not computed since DPM does not have a risk exposure level for acute risk.

4.6.3 Health Risk Results

SJVAPCD has set the level of significance for carcinogenic risk at twenty in one million, which is understood as the possibility of causing twenty additional cancer cases in a population of one million people. The level of significance for chronic non-cancer risk is a hazard index of 1.0. For construction-related exposure, all receptors were modeled as residential receptors with a 27-year exposure for construction. For operational-related exposure, residential receptors were modeled with an additional 70-year exposure for operation, while worker receptors were modeled with an additional 40-year exposure.

The carcinogenic risk and the health hazard index (HI) for chronic non-cancer risk at the maximum exposed individual resident (MEIR) and maximum exposed individual worker (MEIW) do not exceed the significance levels of twenty in one million (20×10^{-6}) and 1.0, respectively for the proposed Project. The MEIR and MEIW are identified by receptor location and risk and provided in Table 4-6. The MEIW for this project has been identified as a potential nearby worksite. The electronic AERMOD and HARP2 output files are provided in Appendix D.

Table 4-6. Potential Maximum Impacts Predicted by HARP2

	Value	UTM East	UTM North
Maximum Exposed Individual Resident (MEIR)			
Excess Cancer Risk - Total	**4.49 in a million**	308580.2	3925662.8
Construction	0.57 in a million		
Operations	3.92 in a million		
Chronic Hazard Index - Total	**0.0028**	306913.4	3927356.2
Construction	0.0026		

Operations	0.0002		
Maximum Exposed Individual Worker (MEIW)			
Excess Cancer Risk - Total	**3.40 in a million**	307781	3927318
Construction	3.01 in a million		
Operations	0.39 in a million		
Chronic Hazard Index - Total	**0.0080**		
Construction	0.0072		
Operations	0.0008		

As shown above in Table 4-6, the maximum predicted cancer risk for the proposed Project is 4.49 in a million. The maximum chronic non-cancer hazard index for the proposed Project is 0.0080.

The potential health risk attributable to the proposed Project is determined to be *less than significant* based on the following conclusions:

1. Potential carcinogenic risk from the proposed Project is below the significance level of twenty in a million at each of the modeled receptors; and
2. The hazard index for the potential chronic non-cancer risk from the proposed Project is below the significance level of 1.0 at each of the modeled receptors.
3. The hazard index for the potential acute non-cancer risk was not calculated since there is no acute risk associated with DPM emission; therefore, the proposed Project is considered below the significance level.

Therefore, potential risk to the population attributable to emissions of HAPs from the proposed Project would be less than significant.

4.7 Potential Impacts from Valley Fever

The proposed project has the potential to generate fugitive dust and suspend Valley Fever spores with the dust that could then reach nearby sensitive receptors. It is possible that onsite workers could be exposed to Valley Fever spores as fugitive dust is generated during construction. In order to mitigate potential risk, the proposed Project would provide training and personal protective respiratory equipment to construction workers and provide information to all construction personnel and visitors about Valley Fever. Therefore, the exposure to Valley Fever would be minimized. With the implementation of the mitigation measures, dust from the construction of the proposed project would not add significantly to the existing exposure level of people to this fungus, including construction workers, and impacts would be reduced to less-than-significant levels.

4.8 Potential Impacts from Asbestos

Naturally occurring asbestos can be released from serpentinite and ultramafic rocks when the rock is broken or crushed. At the point of release, the asbestos fibers may become airborne, causing air quality and human health hazards. These rocks have been commonly used for unpaved gravel roads, landscaping, fill projects, and other improvement projects in some localities. Asbestos may be released to the atmosphere due to vehicular traffic on unpaved roads, during grading of development projects, and at mining operations.

Serpentinite and/or ultramafic rock are known to be present in 44 of California's 58 counties. These rocks are particularly abundant in the counties associated with the Sierra Nevada foothills, the Klamath Mountains, and Coast Ranges. However, according to information provided by the Department of Conservation Division of Mines and Geology, the project site is not located in an area where naturally occurring asbestos is likely to be present (CDCDMG, 2000). Therefore, impacts associated with exposure of construction workers and nearby sensitive receptors to asbestos would be less than significant.

4.9 Odor Impacts and Mitigation

The SJVAPCD's GAMAQI states "An analysis of potential odor impacts should be conducted for both of the following two situations:

1. Generators – projects that would potentially generate odorous emissions proposed to locate near existing sensitive receptors or other land uses where people may congregate, and
2. Receivers – residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources." (SJVAPCD 2015a).

The GAMAQI also states, "The District has identified some common types of facilities that have been known to produce odors in the San Joaquin Valley Air Basin. These are presented in Table 6 (Screening Levels for Potential Odor Sources), along with a reasonable distance from the source within which, the degree of odors could possibly be significant. [Table 6] can be used as a screening tool to qualitatively assess a project's potential to adversely affect area receptors." (SJVAPCD 2015a). Because the Project is warehousing and the anticipated activities for the Project site are not listed in Table 6 of the GAMAQI as a source that would create objectionable odors, the Project is not expected to be a source of objectionable odors.

Based on the provisions of the SJVAPCD's GAMAQI, the proposed Project would not exceed any screening trigger levels to be considered a source of objectionable odors or odorous compounds (SJVAPCD, 2015). Furthermore, there does not appear to be any significant source of objectionable odors in close proximity that may adversely impact the Project site when it is in operation. Additionally, the Project emissions estimates indicate that it would not be expected to adversely impact surrounding receptors. As such, the proposed Project would not be a source of any odorous compounds nor would it likely be impacted by any odorous source.

4.10 Impacts to Ambient Air Quality

An ambient air quality analysis was performed to determine if the proposed Project has the potential to impact ambient air quality through a violation of the ambient air quality standards or a substantial contribution to an existing or projected air quality standard. As stated in the GAMAQI (2015, p 96-97), SJVAPCD has developed screening levels for determining whether an Ambient Air Quality Analysis (AAQA) is required for a project. The SJVAPCD recommends that an AAQA be performed for all criteria pollutants when emissions of any criteria pollutant resulting from project construction or operational activities exceed the 100 pounds per day screening level, after compliance with Rule 9510 requirements and implementation of all enforceable mitigation measures. As shown in Table 4-7 below, average daily emissions for operational activities associated with this Project exceeds 100 pounds per day. Therefore, an AAQA was completed for the operations of the Project.

Table 4-7. Average Daily Emissions

Emission Source	Pollutant (Pounds/Day)					
	ROG	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$
Construction Emissions						
Average Daily (Max) Emissions	14.47	20.70	35.64	0.06	6.35	2.78
AAQA Threshold	100	100	100	100	100	100
Is Threshold Exceeded?	No	No	No	No	No	No
Operational Emissions						
Average Daily (Max) Emissions	65.19	369.93	537.05	3.84	244.70	68.80
AAQA Threshold	100	100	100	100	100	100
Is Threshold Exceeded?	No	Yes	Yes	No	Yes	No

The maximum off-site ground level concentration of each pollutant for the 1-hour, 3-hour, 8-hour, 24-hour, and annual periods was predicted using the most recent version of EPA's AMS/EPA Regulatory Model (AERMOD) dispersion software under the BREEZE AERMOD interface. SJVAPCD-approved, AERMET-processed UStar meteorological datasets for calendar years 2018 through 2022 was input to AERMOD (SJVAPCD 2023). This was the most recent available dataset available at the time the modeling runs were conducted. All of the regulatory default AERMOD model keyword parameters were employed. The CalEEMod selection criteria is based on trip distances to the project site while the AERMOD selection criteria is based on the majority of the land use surrounding the facility. The majority of the land surrounding the project site is considered "rural" under the Auer land use classification method (Auer 1978).

Emissions were evaluated for each pollutant on a short-term (correlating to pollutant averaging period) and long-term (annual) basis, with the exception of CO that was evaluated only for short-term exposures since there are no long-term significance thresholds for CO.

Most mobile emissions predicted by CalEEMod will occur beyond the project boundary because of vehicle trips. In order to determine the on-site vehicle emissions, an estimated on-site trip distance was determined by using the center of the Project to the corner of the Project. The on-site estimated trip distance for the Project was determined to be 0.795 miles for Phase 1 and 0.670 miles for Phase 2. The on-site estimated trip distance was then multiplied by annual vehicle trips to calculate an on-site vehicle miles traveled (VMT). The on-site VMTs were then divided by the annual VMTs calculated in CalEEMod for each phase in order to determine the on-site to off-site mobile emissions ratio. The total mobile emissions calculated by CalEEMod for the Project were then reduced by the ratio to estimate the mobile on-site emissions used for ambient air quality modeling.

CalEEMod area emissions are estimated for landscaping activities as well as volatile organic compound (VOC) off-gassing emissions. CalEEMod estimates fuel combustion emissions from the landscaping maintenance activities, accounting for equipment like lawn mowers, shredders/grinders, and leaf blowers. The VOC off-gassing emissions from the evaporation of solvents in surface coatings, such as paints and primers. Are estimated for three categories of consumer products (non-industrial solvents): general-use products, pesticides/fertilizers, and parking lot degreasers (CAPCOA 2022a). Since VOC does not have an ambient air quality standard, the VOC emissions were omitted from this AAQA.

CalEEMod also calculates criteria pollutant emissions from electricity and natural gas usage. CalEEMod does not quantify criteria pollutant emissions for electricity as the emissions do not occur onsite. The criteria pollutant emissions that are identified under the Energy category in CalEEMod are for usage of natural gas. These emissions were included in the AAQA.

A fence-line coordinate grid of receptor points was constructed and consisted of a 25-meter fence-line spacing and three receptor tiers. The first tier had 25-meter tier spacing extending a distance of 100 meters with initial receptors starting 25 meters from the facility boundary. The second tier had 50-meter tier spacing extending a distance of 150 meters. The third tier had 100-meter tier spacing extending a distance of 250 meters. The fourth tier had 250-meter tier spacing extending a distance of 500 meters. The fifth tier had 500-meter tier spacing extending a distance of 1000 meters. Elevated terrain options were employed even though there is not complex terrain in the Project area.

For each pollutant and averaging period modeled, a "total" concentration was estimated by adding the maximum measured background air concentration to the maximum predicted Project impacts. The maximum measured background air concentrations used in this analysis were calculated from measured concentrations at the nearest monitoring stations.

The results of the air dispersion modeling, presented in Table 4-8, demonstrate that the maximum impacts attributable to the Project, when considered in addition to the existing background concentrations, are below the applicable ambient air quality standard for NOx, SO_2, and CO. The electronic AERMOD output files are provided in Appendix E.

Table 4-8. Predicted Ambient Air Quality Impacts

Pollutant	Averaging Period	Background ($\mu g/m^3$)	Project ($\mu g/m^3$)	Project + Background ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	CAAQS ($\mu g/m^3$)
Operation						
NO_2	1-hour	115.10	36.51	151.61	188.68	338
	Annual	18.63	1.25	19.88	100	56
CO	1-hour	2,097.00	339.33	2,436	40,000	23,000
	8-hour	1,048.50	124.98	1,173	10,000	10,000
SO_2	1-hour	28.50	0.31	28.81	196	655
	3-hour	25.65	0.19	25.84	1,300	---
	24-hour	5.86	0.05	5.91	365	105
	Annual	1.55	0.01	1.56	---	---
PM_{10}	24-hour	129.00	2.60	131.60	150	50
	Annual	39.30	0.64	39.94	---	20
$PM_{2.5}$	24-hour	71.90	0.73	72.63	35	---
	Annual	12.70	0.18	12.88	9	12
*0.00 could represent less than 0.00						

Pre-Project concentrations of PM_{10} and $PM_{2.5}$ exceed their respective ambient air quality standards. Therefore, these averaging periods for $PM_{2.5}$ and PM_{10} are evaluated in accordance with the Prevention of Significant Deterioration (PSD) procedure in Title 40, Code of Federal Regulations (CFR), Part 52.21. It is EPA's policy to use significant impact levels (SIL) to determine whether a proposed new or modified source will cause or contribute significantly to an AAQS or PSD increment violation. Over 99% of the project's predicted PM_{10} and $PM_{2.5}$ concentrations are attributable to fugitive emissions; therefore, SJVAPCD SILs are applicable to this project. If a source's maximum impacts are below the SIL, the source is judged to not cause or contribute significantly to an AAQS or increment violation.

A comparison of the proposed impact from the Project to the District SIL values is provided in Table 4-9. Because the Project's modelled PM_{10} and $PM_{2.5}$ are below the SJVAPCD's significance levels for 24-hour and annual concentrations, the Project's contribution to potential violations of ambient air quality standards would be *less-than-significant*.

Table 4-9. Comparison of Maximum Modeled Project Impacts with Significance Thresholds

Pollutant	Averaging Period	Predicted Concentration ($\mu g/m^3$)	SIL ($\mu g/m^3$)
Operation Emissions			
PM_{10}	24-hour	2.60	10.4
	Annual	0.64	2.08
$PM_{2.5}$	24-hour	0.73	2.5
	Annual	0.18	0.63

4.11 Impacts to Greenhouse Gases and Climate Change

Since SJVAPCD established the GAMAQI, several new laws and executive orders were adopted that require additional reductions in years after 2020. For instance, Senate Bill 32 (Lara, 2016) requires that GHG emissions be 40% less than 1990 levels by 2030. Furthermore, Senate Bill 100 (de Leon, 2018) requires 100% zero-carbon electricity by 2045. On the day SB 100 was signed into law, the Governor also signed Executive Order B-55-18 which commits California to total, economy-wide carbon neutrality by 2045. While GHG emissions from an individual project may not have a detectable impact on global climate change, it may contribute to a significant cumulative problem (BAAQMD 2022). Therefore, as climate change is a global issue, it no longer makes sense to evaluate GHG emissions on a project-level.

For these reasons, Project GHG emissions levels presented in Table 4-10 are primarily for disclosure purposes because impact analysis for the Project follows the approach certified by South Coast AQMD in the Final Negative Declaration for the Phillips 66 Los Angeles Refinery Carson Plant – Crude Oil Storage Capacity Project on December 12, 2014 (South Coast AQMD, 2014). The approach used by South Coast AQMD to assess GHG impacts from that project recognizes that consumers of electricity and transportation fuels are, in effect, regulated by requiring providers and importers of electricity and fuel to participate in the GHG Cap-and-Trade Program and other Programs (e.g., low carbon fuel standard, renewable portfolio standard, etc.). Each such sector-wide program exists within the framework of AB 32 and its descendant laws the purpose of which is to achieve GHG emissions reductions consistent with the AB 32 Scoping Plan.

In summary, the Project would generate GHGs from electricity use and combustion of gasoline/diesel fuels, each of which is regulated near the top of the supply-chain. As such, each citizen of California (including the operator of the Project) will have no choice but to purchase electricity and fuels produced in a way that is acceptable to the California market. Thus, Project GHG emissions will be consistent with the relevant plan (i.e., AB 32 Scoping Plan). The Project would meet its fair share of the cost to mitigate the cumulative impact of global climate change because the Project would be purchasing energy from the California market. Thus, the Project would have a less than significant impact on applicable GHG reduction plans.

Nonetheless, GHG emissions impacts from implementing the Project were calculated at the Project-specific level for construction and operations as explained in the previous paragraphs. Impact analysis for the Project follows the approach certified by South Coast AQMD in the Final Negative Declaration for the Phillips 66 Los Angeles Refinery Carson Plant – Crude Oil Storage Capacity Project on December 12, 2014 (South Coast AQMD, 2014). In summary, this approach takes into account the cumulative nature of the energy industry and recognizes that consumers of electricity and diesel fuel are in effect regulated by higher level emissions restrictions on the producers of these energy sources. Therefore, the Project's contribution to cumulative global climate change impacts would *not be cumulatively considerable*.

Table 4-10. Estimated Annual GHG Emissions (MT/Year)

Source	CO_2	CH_4	N_2O	Refrigerant	CO_2e
Mitigated Construction Emissions					
Total	23,241	0.54	1.15	7.69	23,604
Mitigated Operational Emissions					
Mobile Emissions	65,121	0.49	7.40	14.72	67,353
Area Emissions	131	0.01	0.00	-	132
Energy Emissions	12,517	1.84	0.20	-	12,623
Water Emissions	1,448	67.76	1.62	-	3,626
Waste Emissions	754	75.37	-	-	2,638
Refrigerant Emissions	-	-	-	1,965	1,965

Total Project Operational Emissions	*79,971*	*145.46*	*9.22*	*1,980*	*88,337*
Annualized Construction Emissions[1]	775	0.02	0.04	0.26	787
Project Emissions	**80,746**	**145.48**	**9.26**	**1,980**	**89,124**
*Note: 0.000 could represent <0.000 Per South Coast AQMD's Methodology					

The Project will not result in the emissions of hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), or sulfur hexafluoride (SF_6), the other gases identified as GHG in AB32. The proposed Project will be subject to any regulations developed under AB32 as determined by CARB.

4.11.1 Feasible and Reasonable Mitigation Relative to Global Warming

CEQA requires that all feasible and reasonable mitigation be applied to the project to reduce the impacts from construction and operations on air quality. The SJVAPCD's "Non-Residential On-Site Mitigation Checklist" was utilized in preparing the mitigation measures presented in Section 7. These measures include using controls that limit the exhaust from construction equipment and using alternatives to diesel when possible. Additional reductions would be achieved through the regulatory process of the air district and CARB as required changes to diesel engines are implemented which would affect the product delivery trucks and limits on idling.

Because climate change is a global issue, a development project like the proposed Project, in an individual basis does not have a reasonable potential to result in a measurable significant impact on global warming or climate change. However, the Project would contribute to cumulative GHG emissions that cumulatively result in environmental and health effects associated with climate change across California, the country, and the world. The Project's emissions would only be a very small fraction of the statewide GHG emissions. Regardless, given the position of the legislature in AB32 which states that global warming poses serious detrimental effects, and the requirements of CEQA for the lead agency to determine if a project would have a cumulatively considerable contribution, the effect of the Project's CO_2 contribution may be considered cumulatively considerable. This determination is "speculative," given the lack of clear scientific evidence or other criteria for determining the significance of the Project's contribution of GHG to the air quality in the SJVAB.

The strategies currently being implemented by CARB may help in reducing the Project's GHG emissions and are summarized in the table below.

Table 4-11. Select CARB GHG Emission Reduction Strategies

Strategy	Description of Strategy
Vehicle Climate Change Standards	AB 1493 (Pavley) required the state to develop and adopt regulations that achieve the maximum feasible and cost-effective reduction of climate change emissions emitted by passenger vehicles and light duty trucks. Regulations were adopted by CARB in Sept. 2004.
Diesel Anti-Idling	In July 2004, CARB adopted a measure to limit diesel-fueled retail motor vehicle idling to 5 minutes or less.
Other Light-Duty Vehicle Technology	New standards would be adopted to phase in beginning in the 2017 model year.
Alternative Fuels: Biodiesel Blends	CARB would develop regulations to require the use of 1% to 4% Biodiesel displacement of California diesel fuel.
Alternative Fuels: Ethanol	Increased use of ethanol fuel.
Heavy-Duty Vehicle Emission Reduction Measures	Increased efficiency in the design of heavy-duty vehicles and an educational program for the heavy-duty vehicle sector.

Not all of these measures are currently appropriate or applicable to the proposed Project. While future legislation could further reduce the Project's GHG footprint, the analysis of this is speculative and in accordance with CEQA Guidelines Section 15145, will not be further evaluated in this AQIA.

CEQA Guidelines Section 15130 notes that sometimes the only feasible mitigation for cumulative impacts may involve the adoption of ordinances or regulations rather than the imposition of conditions on a project-by-project basis. Global climate change is this type of issue. The causes and effects may not be just regional or statewide, they may also be worldwide. Given the uncertainties in identifying, let alone quantifying the impact of any single project on global warming and climate change, and the efforts made to reduce emissions of GHGs from the Project through design, in accordance with CEQA Section 15130, any further feasible emissions reductions would be accomplished through CARB regulations adopted pursuant to AB32.

5. CUMULATIVE IMPACTS

By its very nature, air pollution has a cumulative impact. The District's nonattainment status is a result of past and present development within the SJVAB. Furthermore, attainment of ambient air quality standards can be jeopardized by increasing emissions-generating activities in the region. No single project would be sufficient in size, by itself, to result in nonattainment of the regional air quality standards. Instead, a project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development within the San Joaquin Valley Air Basin. When assessing whether there is a new significant cumulative effect, the Lead Agency shall consider whether the incremental effects of the project are 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, the effects of other current projects, and the effects of probable future projects [CCR §15064(h)(1)]. Per CEQA Guidelines §15064(h)(3) a Lead Agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project will comply with the requirements in a previously approved plan or mitigation program, including, but not limited to an air quality attainment or maintenance plan that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area in which the project is located. (SJVAPCD 2015a)

Attachment A of Kern County's *Guidelines for Preparing an Air Quality Assessment for Use in Environmental Impact Reports* states "The following threshold are defined for purposes of determining cumulative effects as the baseline for "considerable". Projects in the San Joaquin Valley Air Pollution Control District…will be subject to the following significance thresholds". The thresholds outlined in the guidelines mirror the individual project significance thresholds of 15 tons per year for PM_{10} and 10 tons per year for NO_X and ROG. Therefore, owing to the inherently cumulative nature of air quality impacts, the threshold for whether a project would make a cumulatively considerable contribution to a significant cumulative impact is simply whether the project would exceed project-level thresholds. Based on the analysis conducted for this Project, it is individually *less than significant*. This AQIA, however, also considered impacts of the proposed Project in conjunction with the impacts of other projects previously proposed in the area. The following cumulative impacts were considered:

- Cumulative O_3 Impacts (ROG and NOx) from numerous sources within the region including transport from outside the region. O_3 is formed through chemical reactions of ROG and NOx in the presence of sunlight.
- Cumulative CO Impacts produced primarily by vehicular emissions.
- Cumulative PM_{10} Impacts from within the region and locally from the various projects. Such projects may cumulatively produce a significant amount of PM10 if several projects conduct grading or earthmoving activities at the same time.
- Hazardous Air Pollutant (HAP) Impacts on sensitive receptors.

5.1 Cumulative Regional Air Quality Impacts

The most recent, certified SJVAB Emission Inventory data available from the SJVAPCD is based on data gathered for the 2025 annual inventory[2]. Table 5-1 provides a comparative look at the impacts proposed by the proposed Project on the SJVAB Emissions Inventory.

[2] SJVAPCD Emissions for Aggregated Stationary, Area-Wide, Mobile, and Natural Sources

Table 5-1. Comparative Analysis Based on SJV Air Basin 2025 Inventory - Tons per Year

	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
Kern County - 2025	20,878	9,892	31,171	511	13,651	3,614
SJVAB - 2025	106,434	46,428	189,691	2,263	95,265	21,572
Proposed Project	11.90	67.51	98.01	0.70	44.66	12.56
Proposed Project's % of Kern	0.057%	0.683%	0.314%	0.137%	0.327%	0.347%
Proposed Project's % of SJVAB	0.011%	0.145%	0.052%	0.031%	0.047%	0.058%
Note: This is the latest inventory available as of May 2025. Source: CARB 2025b						

As shown in Table 5-1**,** the proposed Project does not pose a substantial increase to basin emissions, as such basin emissions would be essentially the same if the Project is approved.

Table 5-2, 5-3, and 5-4 provide CARB Emissions Inventory projections for the year 2030 for both the SJVAB and the Kern County portion of the air basin. Looking at the SJVAB Emissions predicted by the CARB year 2030 emissions inventory, the Kern County portion of the air basin is a moderate source of the emissions. The proposed Project produces a small portion of the total emissions in both Kern County and the entire SJVAB.

Table 5-2. Emission Inventory SJVAB 2030 Projection - Tons per Year

	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
Total Emissions	104,390.0	38,033.0	168,958.5	2,226.5	99,280.0	21,754.0
Percent Stationary Sources	29.97%	15.55%	4.43%	78.69%	4.30%	11.41%
Percent Area-Wide Sources	55.77%	6.05%	21.47%	8.20%	91.43%	77.01%
Percent Mobile Sources	14.27%	78.50%	74.10%	13.11%	4.26%	11.74%
Total Stationary Source Emissions	31,280.5	5,913.0	7,482.5	1,752.0	4,270.5	2,482.0
Total Area-Wide Source Emissions	58,217.5	2,299.5	36,281.0	182.5	90,775.5	16,753.5
Total Mobile Source Emissions	14,892.0	29,857.0	125,195.0	292.0	4,234.0	2,555.0
Source: CARB 2025b Note: Total may not add due to rounding						

Table 5-3. Emission Inventory SJVAB - Kern County Portion 2030 Projection - Tons per Year

	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
Total Emissions	20,330.5	8,358.5	27,849.5	438.0	14,746.0	3,613.5
Percent Stationary Sources	49.91%	22.27%	9.83%	86.67%	8.66%	27.27%
Percent Area-Wide Sources	36.98%	4.37%	7.34%	4.17%	86.14%	61.62%
Percent Mobile Sources	13.11%	72.93%	82.83%	10.00%	5.20%	11.11%
Total Stationary Source Emissions	10,147.0	1,861.5	2,737.5	379.6	1,277.5	985.5
Total Area-Wide Source Emissions	7,519.0	365.0	2,044.0	18.3	12,702.0	2,226.5
Total Mobile Source Emissions	2,664.5	6,095.5	23,068.0	43.8	766.5	401.5
Source: CARB 2025b Note: Total may not add due to rounding						

Table 5-4. 2030 Emissions Projections - Proposed Project, Kern County, and SJVAB

	ROG	NOx	PM_{10}
Proposed Project	11.90	67.51	44.66
Kern County	20,331	8,359	14,746
SJVAB	104,390	38,033	99,280
Proposed Project Percent of Kern County	0.059%	0.808%	0.303%
Proposed Project Percent of SJVAB	0.011%	0.178%	0.045%
Kern County Percent of SJVAB	19.48%	21.98%	14.85%
Source: CARB 2025b			

As shown above, the regional contribution of O_3 and PM_{10} would be negligible, and additionally, the Project would not exceed cumulatively considerable thresholds since the Project would be less than thresholds outlined in Kern County's *Guidelines for Preparing an Air Quality Assessment for Use in Environmental Impact Reports*. Therefore, this Project would not be considered cumulatively considerable in its contribution to regional O_3 and PM_{10} impacts.

5.2 Cumulative Local Air Quality Impacts

Kern County provided a list of tentative development maps within a six-mile radius of the proposed Project area in Table 3-5 of the DEIR; however, the details provided for these projects do not provide enough information to accurately estimate their potential emissions. The cumulative projects are typically listed only as geographical reference to demonstrate the construction activity within a six-mile radius of the proposed Project. The number and sizes of these projects are of no particular significance since the cumulative considerable thresholds established by Kern County are based on Project specific thresholds which are inherently cumulative in nature.

As details regarding the various cumulative projects were not readily available, emissions estimates were not calculated. As these projects are either currently under construction or, at a minimum, approved by the planning department for consistency with applicable regulation, for the purposes of this analysis, it is assumed that they are in conformance with the regional AQAP.

The cumulative projects are already approved or pending approval it is assumed that these projects are in conformance with the regional AQAP. Additionally, the proposed Project would generate less-than-significant impacts to criteria air pollutants, the Project's incremental contribution to cumulative air quality impacts would not be cumulatively considerable. (CEQA Guidelines Section 15064(h)(3); (SJVAPCD 2015).

5.3 Cumulative Hazardous Air Pollutants

The GAMAQI also states that when evaluating potential impacts related to HAPs, "*impacts of local pollutants (CO, HAPs) are cumulatively significant when modeling shows that the combined emissions from the project and other existing and planned projects will exceed air quality standards*." Because the Project would not be a significant source of HAPs, the proposed Project would also *not be expected to pose a significant cumulative CO or HAPs impact*.

5.4 Cumulative Carbon Monoxide (CO) – Mobile Sources

The SJVAPCD's GAMAQI has identified CO impacts from impacted traffic intersections and roadway segments as being potentially cumulatively considerable. Traffic increases and added congestion caused by a project can combine to cause a violation of the SJVAPCD's CO standard also known as a "Hotspot". There are two criteria established by the GAMAQI by which CO "Hot Spot" modeling is required:

- A traffic study for the project indicates that the Level of Service (LOS) on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F; or
- A traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at one or more intersections in the project vicinity.

A traffic study was completed for this Project (Ruettgers & Schuler 2022). According to the traffic study, impacted intersections and roadway segments are not anticipated to operate at a LOS of C or better, even with mitigation. However, CO "Hotspot" Modeling was not conducted for this Project because CO emissions for this Project are below significance thresholds. Therefore, no concentrated excessive CO emissions are expected to be caused once the proposed Project is completed.

6. CONSISTENCY WITH THE AIR QUALITY ATTAINMENT PLAN

Air quality impacts from proposed projects within the City of Bakersfield are controlled through policies and provisions of the SJVAPCD and the Kern County General Plan (KCPD, 2009). In order to demonstrate that a proposed project would not cause further air quality degradation in either the SJVAPCD's plan to improve air quality within the air basin or the federal requirements to meet certain air quality compliance goals, each project should also demonstrate consistency with the SJVAPCD's adopted Air Quality Attainment Plans (AQAP) for O_3 and PM_{10}. The SJVAPCD is required to submit a "Rate of Progress" document to CARB that demonstrates past and planned progress toward reaching attainment for all criteria pollutants. The California Clean Air Act (CCAA) requires air pollution control districts with severe or extreme air quality problems to provide for a 5% reduction in non-attainment emissions per year. The AQAP prepared for the San Joaquin Valley by the SJVAPCD complies with this requirement. CARB reviews, approves or amends the document and forwards the plan to the EPA for final review and approval within the SIP.

Air pollution sources associated with stationary sources are regulated through the permitting authority of the SJVAPCD under the New and Modified Stationary Source Review Rule (SJVAPCD Rule 2201). Owners of any new or modified equipment that emits, reduces, or controls air contaminants, except those specifically exempted by the SJVAPCD, are required to apply for an Authority to Construct and Permit to Operate (SJVAPCD Rule 2010). Additionally, best available control technology (BACT) is required on specific types of stationary equipment and are required to offset both stationary source emission increases along with increases in cargo carrier emissions if the specified threshold levels are exceeded (SJVAPCD Rule 2201, 4.7.1). Through this mechanism, the SJVAPCD would ensure that all stationary sources within the project area would be subject to the standards of the SJVAPCD to ensure that new developments do not result in net increases in stationary sources of criteria air pollutants.

6.1 Required Evaluation Guidelines

State CEQA Guidelines and the Federal Clean Air Act (Sections 176 and 316) contain specific references on the need to evaluate consistencies between the proposed project and the applicable AQAP for the project site. To accomplish this, CARB has developed a three-step approach to determine project conformity with the applicable AQAP:

1. *Determination that an AQAP is being implemented in the area where the project is being proposed*. The SJVAPCD has implemented the current, modified AQAP as approved by CARB.
2. *The proposed project must be consistent with the growth assumptions of the applicable AQAP*. The proposed Project land use type was not anticipated in the current growth assumptions. Therefore, growth assumptions in the Kern County General Plans will be modified with the approval of the proposed Project.
3. *The project must contain in its design all reasonably available and feasible air quality control measures*. The proposed project incorporates various policy and rule-required implementation measures that will reduce related emissions.

The CCAA and AQAP identify transportation control measures as methods to further reduce emissions from mobile sources. Strategies identified to reduce vehicular emissions such as reductions in vehicle trips, vehicle use, vehicle miles traveled, vehicle idling, and traffic congestion, in order to reduce vehicular emissions, can be implemented as control measures under the CCAA as well. Additional measures may also be implemented through the building process such as providing electrical outlets on exterior walls of structures to encourage use of electrical landscape maintenance equipment or measures such as electrical outlets for electrical systems on diesel trucks to reduce or eliminate idling time.

As the growth represented by the proposed Project will be updated in the Bakersfield and Kern County General Plans and incorporated into the AQAP, conclusions may be drawn from the following criteria:

1. That, by definition, the proposed emissions from the Project are below the SJVAPCD's established emissions impact thresholds;
2. That the primary source of emissions from the Project will be motor vehicles that are licensed through the State of California and whose emissions are already incorporated into CARB's San Joaquin Valley Emissions Inventory.

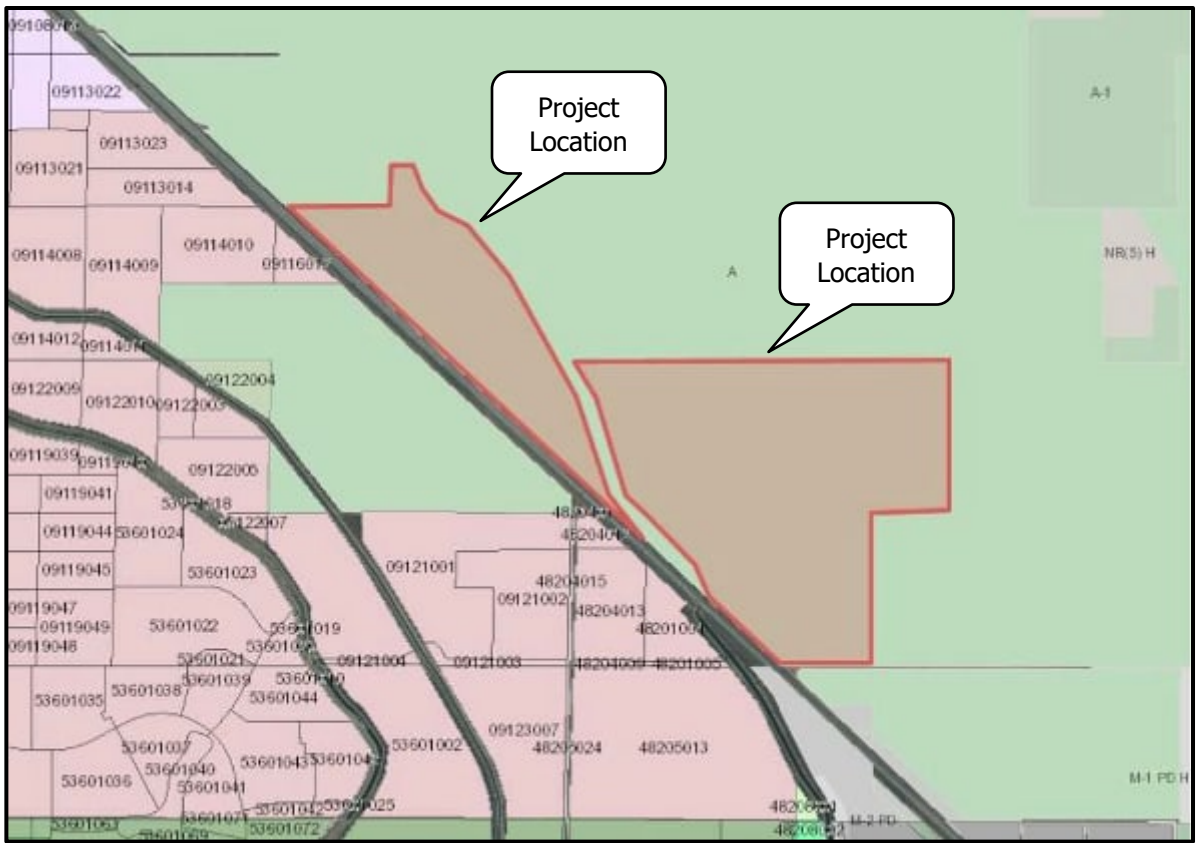
Based on these factors, the Project appears to be *consistent with the AQAP*.

6.2 Consistency with the Kern County Council of Government's Regional Conformity Analysis

The Kern Council of Governments (Kern COG) Regional Conformity Analysis (Kern COG 2018) Determination demonstrates that the regional transportation expenditure plans (Destination 2042 Regional Transportation Plan and Federal Transportation Improvement Program) in the Kern County portion of the San Joaquin Valley air quality attainment areas would not hinder the efforts set out in CARB's SIP for each area's non-attainment pollutants (CO, O_3, and PM_{10}). The analysis uses an adopted regional growth forecast, governed by both the adopted Kern COG Policy and Procedure Manual and a Memorandum of Understanding between the County of Kern and Kern COG (representing itself and outlying municipal member agencies).

The Kern COG Regional Conformity Analysis considers General Plan Amendments (GPA) and zone changes that were enacted at the time of the analysis as projected growth within the area based on land use designations incorporated within the Kern County General Plan. Land use designations that are altered based on subsequent GPAs that were not included in the Regional Conformity Analysis were not incorporated into the Kern COG analysis. Consequently, if a proposed project is not included in the regional growth forecast using the latest planning assumptions, it may not be said to conform to the regional growth forecast. Under the current City of Bakersfield Zoning, the Project site is designated as "C-2/P.C.D. Combining" and "C-2 Commercial" (see Figure 6-1).

Figure 6-1. Kern County Zoning



Item 2 under Section 3 – Model Maintenance Procedure, of the Kern COG Regional Transportation Modeling Policy and Procedure Manual states "*Land Use Data – General Plan land capacity data or "Build -out capacity" is used to distribute the forecasted County totals, and may be updated as new information becomes available, and is revised in regular consultation with local planning departments.*"

Under current policies, only after a General Plan Amendment (GPA) is approved, can housing and employment assumptions be updated to reflect the capacity changes. Since the proposed development does require a GPA and zone change, the existing growth forecast will be modified to reflect these changes. In order to determine whether the forecasted growth for the Project area is sufficient to account for the projected increases in employment, an analysis based on Kern COG regional forecast was conducted.

The adopted growth forecast for the project site is distributed to Traffic Analysis Zones (TAZ) (see Figure 6-2). In order to evaluate the impacts to the proposed Project area, a half-mile radius around each phase analysis was conducted that included TAZs 754, 1755, 1768, 1770, 2242, 2379, and 2442. This places the Project site at the center of the analysis area and provides a conservative evaluation of the TAZ data. Kern COG has predicted an increase in growth in housing (1851%) and an increase in employment (10%) between 2020 and 2035. Employment forecast for the TAZ analysis area appears to be sufficient to account for 100% of the planned employment growth attributed to the proposed Project. In order to be considered "consistent" and, therefore, in conformance with the AQAP, these increases would need to occur over the same time as the adopted growth forecast. From 2020 through 2046, 326 new jobs are forecast to be added to the analysis area.

Figure 6-2. TAZ Analysis Map

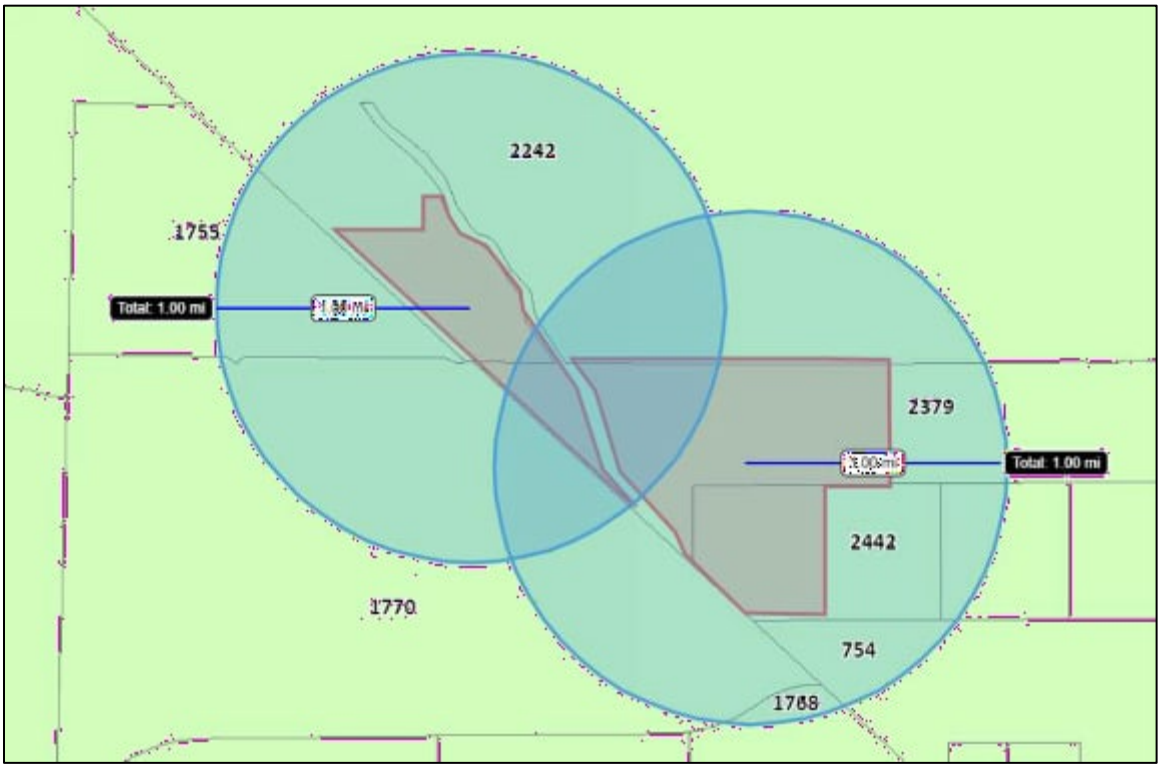


Table 6-1 provides the projected growth rates for the TAZ analysis area.

Table 6-1. TAZ Analysis Area Projected Growth Analysis[3]

Years	202	2035	2046
Households	127	2,478	3,223
Employment	1,956	2,159	2,282

Table 6-2 provides the percent increase/decrease for the analysis area population, households, and employment.

Table 6-2. Percent Increase/Decrease on TAZ Analysis Area

Years	Percent Increase / Decrease	
	Households	Employment
2020	-	-
2035	1851%	10%
2046	30%	6%

[3] Kern Council of Governments Regional Conformity Analysis Data, 2018

7. MITIGATION AND OTHER RECOMMENDED MEASURES

The estimated construction and operational emissions from the proposed Project would be less than significant, after specific mitigation measures listed below. However, to ensure that Project is in compliance with all applicable SJVAPCD rules and regulations and emissions are further reduced, the applicant should implement and comply with a number of measures that are either recommended as a "good operating practice" for environmental stewardship or they are required by regulation. Some of the listed measures are regulatory requirements or construction requirements that would result in further emission reductions through their inclusion in Project construction and long-term design. The following measures either have been applied to the Project through the CalEEMod model and would be incorporated into the Project by design or would be implemented in conjunction with SJVAPCD rules as conditions of approval.

7.1 SJVAPCD Required PM_{10} Reduction Measures

As the Project would be completed in compliance with SJVAPCD Regulation VIII, dust control measures would be taken to ensure compliance specifically during grading and construction phases. The required Regulation VIII measures are as follows:

- Water previously exposed surfaces (soil) whenever visible dust is capable of drifting from the site or approaches 20% opacity.
- Water all unpaved haul roads a minimum of three-times/day or whenever visible dust from such roads is capable of drifting from the site or approaches 20% opacity.
- Reduce speed on unpaved roads to less than 15 miles per hour.
- Install and maintain a track out control device that meets the specifications of SJVAPCD Rule 8041 if the site exceeds 150 vehicle trips per day or more than 20 vehicle trips per day by vehicles with three or more axles.
- Stabilize all disturbed areas, including storage piles, which are not being actively utilized for production purposes using water, chemical stabilizers or by covering with a tarp or other suitable cover.
- Control fugitive dust emissions during land clearing, grubbing, scraping, excavation, leveling, grading, or cut and fill operations with application of water or by presoaking.
- When transporting materials offsite, maintain a freeboard limit of at least 6 inches and cover or effectively wet to limit visible dust emissions.
- Limit and remove the accumulation of mud and/or dirt from adjacent public roadways at the end of each workday. (Use of dry rotary brushes is prohibited except when preceded or accompanied by sufficient wetting to limit visible dust emissions and use of blowers is expressly forbidden).
- Stabilize the surface of storage piles following the addition or removal of materials using water or chemical stabilizer/suppressants.
- Remove visible track-out from the site at the end of each workday.
- Cease grading or other activities that cause excessive (greater than 20% opacity) dust formation during periods of high winds (greater than 20 mph over a one-hour period).

7.2 Recommended Measures to Reduce Equipment Exhaust

In addition, the GAMAQI guidance document lists the following measures as approved and recommended for construction activities. These measures are recommended:

- Maintain all construction equipment as recommended by manufacturer manuals.
- Shut down heavy duty equipment when not in use for extended periods.
- Heavy duty construction equipment shall operate no longer than eight (8) cumulative hours per day.

- Use electric equipment for construction whenever possible in lieu of diesel or gasoline powered equipment.
- Curtail use of high-emitting construction equipment during periods of high or excessive ambient pollutant concentrations, which may include ceasing construction activity during the peak-hour of vehicle activity on adjacent roadways.
- All construction vehicles shall be equipped with proper emissions control equipment and kept in good and proper running order to substantially reduce NOx emissions.
- On-Road and Off-Road diesel equipment shall use diesel particulate filters if permitted under manufacturer's guidelines.
- On-Road and Off-Road diesel equipment shall use cooled exhaust gas recirculation (EGR) if permitted under manufacturer's guidelines.
- All construction workers shall be encouraged to shuttle (car-pool) to retail establishments or to remain on-site during lunch breaks.

7.3 Other Measures to Reduce Project Impacts

The following measures are recommended to further reduce the potential for long-term emissions from the Project. These measures are required as a matter of regulatory compliance:

- The Project design shall comply with applicable standards set forth in Title 24 of the Uniform Building Code to minimize total consumption of energy.
- The developer shall comply with the provisions of SJVAPCD Rule 4601 - Architectural Coatings, during the construction of all buildings and facilities. Application of architectural coatings shall be completed in a manner that poses the least emissions impacts whenever such application is deemed proficient.
- The applicant shall comply with the provisions of SJVAPCD Rule 4641 during the construction and pavement of all roads and parking areas within the project area. Specifically, the applicant shall not allow the use of:
  - Rapid cure cutback asphalt;
  - Medium cure cutback asphalt;
  - Slow cure cutback asphalt (as specified in SJVAPCD Rule 4641, Section 5.1.3); or Emulsified asphalt (as specified in SJVAPCD Rule 4641, Section 5.1.4).
  - The developer shall comply with applicable provisions of SJVAPCD Rule 9510 (Indirect Source Review).

7.4 Voluntary Emission Reduction Agreement

A Voluntary Emission Reduction Agreement (VERA) is an air quality mitigation measure by which a developer can voluntarily enter into a contractual agreement with the SJVAPCD to mitigate a development project's impact on air quality. Under the agreement, the developer provides funds to SJVAPCD to administer the implementation of the VERA. SJVAPCD then identifies emissions reductions projects, funds those projects, and verifies that the specified emission reductions have been successfully achieved. SJVAPCD considers implementation of a VERA to be a feasible mitigation measure under CEQA, effectively achieving emission reductions necessary to reduce impacts to a less than significant level. Under a VERA, a developer may reduce emissions either to less than significant levels or to net zero levels. (SJVAPCD 2020)

The Project proponent, at the time of this analysis, intends to enter into a VERA to reduce Project emissions (as summarized in Table 4-4). The Project proponent will engage in future discussions with SJVAPCD staff in order to determine the specific terms of the VERA.

8. LEVEL OF SIGNIFICANCE AFTER MITIGATION

The proposed Project would have short-term air quality impacts due to facility construction activities as well as vehicular emissions. Both of these impacts would be mitigated and *were found to be less than significant after mitigation*.

The proposed Project would result in long-term air quality impacts due to operational and related mobile source emissions. These impacts would be mitigated and *were found to be less than significant after mitigation*.

The proposed Project would result in impacts to greenhouse gases and climate change due to construction and operational emissions. These impacts *were found to be less than significant*.

The proposed Project, in conjunction with other past, present, and foreseeable future projects, would result in cumulative short-term and long-term impacts to air quality. The proposed Project's incremental contribution to these impacts would be mitigated, are below thresholds of significance, and would not be considered cumulatively considerable. Therefore, the Project's contribution to cumulative impacts *were found to be less than significant*.

The proposed Project, in conjunction with other past, present, and foreseeable future projects, would result in cumulative long-term impacts to global climate change. Given the cumulative nature of the energy industry and given consumers of electricity and diesel fuel are in effect regulated by higher level emissions restrictions on the producers of these energy sources, the proposed Project's incremental contribution to these impacts will be mitigated to the extent feasible and are considered *less than significant*.

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APPENDIX A. EXISTING AIR QUALITY MONITORING DATA

Top 4 Summary: Highest 4 Daily Maximum Hourly Ozone Measurements

at Bakersfield-5558 California Avenue

	2021		2022		2023	
	Date	Measurement	Date	Measurement	Date	Measurement
First High:	Jun 29	0.090	Sep 26	0.093	Aug 30	0.088
Second High:	Aug 28	0.087	Oct 5	0.083	Aug 23	0.083
Third High:	Jul 27	0.083	Sep 2	0.082	Aug 31	0.083
Fourth High:	Sep 7	0.083	Sep 6	0.081	Aug 17	0.081
California:						
# Days Above the Standard:	0		0		0	
California Designation Value:	0.10		0.09		0.09	
Expected Peak Day Concentration:	0.095		0.093		0.088	
National:						
# Days Above the Standard:	*0*		*0*		*0*	
3-Year Estimated Expected Number of Exceedance Days:	*0.0*		*0.0*		*0.0*	
1-Year Estimated Expected Number of Exceedance Days:	*0.0*		*0.0*		*0.0*	
Nat'l Standard Design Value:	*0.097*		*0.093*		*0.087*	
Year Coverage:	99		98		98	

Notes:

Hourly ozone measurements and related statistics are available at Bakersfield-5558 California Avenue between 1994 and 2023. Some years in this range may not be represented.

All concentrations expressed in parts per million.

The national 1-hour ozone standard was revoked in June 2005. Statistics related to the national 1-hour ozone standard are shown in or .

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily Maximum Hourly Ozone Measurements

at Oildale-3311 Manor Street

	2021		2022		2023	
	Date	Measurement	Date	Measurement	Date	Measurement
First High:	Aug 28	0.107	Sep 26	0.106	Aug 29	0.089
Second High:	Aug 29	0.102	Oct 5	0.097	Aug 30	0.088
Third High:	Aug 3	0.099	Aug 16	0.096	Oct 19	0.088
Fourth High:	Sep 9	0.099	Oct 6	0.096	Aug 23	0.085
California:						
# Days Above the Standard:	6		4		0	
California Designation Value:	0.10		0.10		0.10	
Expected Peak Day Concentration:	0.099		0.101		0.099	
National:						
# Days Above the Standard:	*0*		*0*		*0*	
3-Year Estimated Expected Number of Exceedance Days:	*0.0*		*0.0*		*0.0*	
1-Year Estimated Expected Number of Exceedance Days:	*0.0*		*0.0*		*0.0*	
Nat'l Standard Design Value:	*0.102*		*0.106*		*0.099*	
Year Coverage:	98		100		97	

Notes:

Hourly ozone measurements and related statistics are available at Oildale-3311 Manor Street between 1983 and 2023. Some years in this range may not be represented.

All concentrations expressed in parts per million.

The national 1-hour ozone standard was revoked in June 2005. Statistics related to the national 1-hour ozone standard are shown in or .

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily Maximum Hourly Ozone Measurements

at Shafter-Walker Street

	2021		2022		2023	
	Date	Measurement	Date	Measurement	Date	Measurement
First High:	Aug 28	0.104	Sep 6	0.095	Aug 29	0.090
Second High:	Aug 29	0.093	Jul 24	0.090	Jul 16	0.089
Third High:	Jun 27	0.092	Jul 11	0.088	Jun 30	0.088
Fourth High:	Jun 18	0.091	Jul 14	0.087	Jul 20	0.086
California:						
# Days Above the Standard:	1		1		0	
California Designation Value:	0.10		0.10		0.09	
Expected Peak Day Concentration:	0.096		0.097		0.093	
National:						
# Days Above the Standard:	*0*		*0*		*0*	
3-Year Estimated Expected Number of Exceedance Days:	*0.0*		*0.0*		*0.0*	
1-Year Estimated Expected Number of Exceedance Days:	*0.0*		*0.0*		*0.0*	
Nat'l Standard Design Value:	*0.102*		*0.102*		*0.092*	
Year Coverage:	100		99		97	

Notes:

Hourly ozone measurements and related statistics are available at Shafter-Walker Street between 1989 and 2023. Some years in this range may not be represented.

All concentrations expressed in parts per million.

The national 1-hour ozone standard was revoked in June 2005. Statistics related to the national 1-hour ozone standard are shown in or .

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily Maximum 8-Hour Ozone Averages

at Bakersfield-5558 California Avenue

	2021		2022		2023	
	Date	8-Hr Average	Date	8-Hr Average	Date	8-Hr Average
National 2015 Std (0.070 ppm):						
First High:	Aug 28	0.080	Sep 26	0.076	Aug 31	0.079
Second High:	Jun 17	0.079	Oct 5	0.073	Aug 24	0.078
Third High:	Aug 29	0.079	Aug 16	0.072	Aug 30	0.078
Fourth High:	Jun 18	0.077	Sep 24	0.071	Aug 23	0.075
California Std (0.070 ppm):						
First High:	Aug 28	0.081	Sep 26	0.076	Aug 30	0.079
Second High:	Aug 29	0.080	Oct 5	0.073	Aug 31	0.079
Third High:	Jun 17	0.079	Aug 16	0.072	Aug 24	0.078
Fourth High:	Jun 18	0.077	Sep 24	0.072	Aug 23	0.076

	2021	2022	2023
National 2015 Std (0.070 ppm):			
# Days Above the Standard:	11	4	7
Nat'l Standard Design Value:	0.080	0.077	0.074
National Year Coverage:	100	100	99
California Std (0.070 ppm):			
# Days Above the Standard:	11	7	7
California Designation Value:	0.088	0.086	0.081
Expected Peak Day Concentration:	0.090	0.087	0.081
California Year Coverage:	99	97	98

Notes:

Eight-hour ozone averages and related statistics are available at Bakersfield-5558 California Avenue between 1994 and 2023. Some years in this range may not be represented.

All averages expressed in parts per million.

An exceedance of a standard is not necessarily related to a violation of the standard.

State and national statistics may differ for the following reasons:

National 8-hour averages are truncated to three decimal places; State 8-hour averages are rounded to three decimal places.

State criteria for ensuring that data are sufficiently complete for calculating 8-hour averages are more stringent than the national criteria.

Daily maximum 8-hour averages associated with the National 0.070 ppm standard exclude those 8-hour averages that have first hours between midnight and 6:00 am, Pacific Standard Time.

Daily maximum 8-hour averages associated with the National 0.070 ppm standard include only those 8-hour averages from days that have sufficient data for the day to be considered valid.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily Maximum 8-Hour Ozone Averages

at Oildale-3311 Manor Street

	2021		2022		2023	
	Date	8-Hr Average	Date	8-Hr Average	Date	8-Hr Average
National 2015 Std (0.070 ppm):						
First High:	Aug 29	0.095	Sep 26	0.090	Aug 30	0.082
Second High:	Aug 28	0.094	Oct 5	0.086	Oct 19	0.080
Third High:	Jul 27	0.087	Oct 6	0.086	Aug 24	0.077
Fourth High:	Aug 4	0.086	Aug 16	0.085	Aug 23	0.076
California Std (0.070 ppm):						
First High:	Aug 29	0.095	Sep 26	0.091	Aug 30	0.083
Second High:	Aug 28	0.094	Oct 6	0.087	Oct 19	0.081
Third High:	Jul 27	0.088	Aug 16	0.086	Aug 24	0.078
Fourth High:	Aug 4	0.086	Oct 5	0.086	Aug 23	0.077
National 2015 Std (0.070 ppm):						
# Days Above the Standard:		43		51		13
Nat'l Standard Design Value:		0.081		0.084		0.082
National Year Coverage:		99		100		96
California Std (0.070 ppm):						
# Days Above the Standard:		46		54		14
California Designation Value:		0.088		0.091		0.091
Expected Peak Day Concentration:		0.092		0.093		0.091
California Year Coverage:		97		98		94

Notes:

Eight-hour ozone averages and related statistics are available at Oildale-3311 Manor Street between 1983 and 2023. Some years in this range may not be represented.

All averages expressed in parts per million.

An exceedance of a standard is not necessarily related to a violation of the standard.

State and national statistics may differ for the following reasons:

National 8-hour averages are truncated to three decimal places; State 8-hour averages are rounded to three decimal places.

State criteria for ensuring that data are sufficiently complete for calculating 8-hour averages are more stringent than the national criteria.

Daily maximum 8-hour averages associated with the National 0.070 ppm standard exclude those 8-hour averages that have first hours between midnight and 6:00 am, Pacific Standard Time.

Daily maximum 8-hour averages associated with the National 0.070 ppm standard include only those 8-hour averages from days that have sufficient data for the day to be considered valid.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily Maximum 8-Hour Ozone Averages

at Shafter-Walker Street

	2021		2022		2023	
	Date	8-Hr Average	Date	8-Hr Average	Date	8-Hr Average
National 2015 Std (0.070 ppm):						
First High:	Aug 28	0.085	Sep 6	0.081	Jul 22	0.079
Second High:	Aug 29	0.082	Aug 17	0.079	Jul 16	0.078
Third High:	Jul 27	0.079	Oct 6	0.078	Jun 30	0.075
Fourth High:	Jun 17	0.076	Sep 24	0.077	Jul 20	0.073
California Std (0.070 ppm):						
First High:	Aug 28	0.086	Sep 6	0.082	Jul 22	0.080
Second High:	Aug 29	0.082	Aug 17	0.080	Jul 16	0.079
Third High:	Jul 27	0.079	Oct 6	0.078	Jun 30	0.076
Fourth High:	Aug 7	0.077	May 25	0.077	Jul 20	0.074
National 2015 Std (0.070 ppm):						
# Days Above the Standard:		15		21		6
Nat'l Standard Design Value:		0.079		0.080		0.075
National Year Coverage:		100		99		98
California Std (0.070 ppm):						
# Days Above the Standard:		16		27		8
California Designation Value:		0.089		0.089		0.082
Expected Peak Day Concentration:		0.089		0.090		0.084
California Year Coverage:		100		98		96

Notes:

Eight-hour ozone averages and related statistics are available at Shafter-Walker Street between 1989 and 2023. Some years in this range may not be represented.

All averages expressed in parts per million.

An exceedance of a standard is not necessarily related to a violation of the standard.

State and national statistics may differ for the following reasons:

National 8-hour averages are truncated to three decimal places; State 8-hour averages are rounded to three decimal places.

State criteria for ensuring that data are sufficiently complete for calculating 8-hour averages are more stringent than the national criteria.

Daily maximum 8-hour averages associated with the National 0.070 ppm standard exclude those 8-hour averages that have first hours between midnight and 6:00 am, Pacific Standard Time.

Daily maximum 8-hour averages associated with the National 0.070 ppm standard include only those 8-hour averages from days that have sufficient data for the day to be considered valid.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily 24-Hour PM10 Averages

at Bakersfield-5558 California Avenue

	2021		2022		2023	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Oct 11	437.5	May 20	134.7	Nov 15	181.3
Second High:	Oct 4	185.7	Sep 9	129.2	Dec 17	106.8
Third High:	Dec 13	164.7	Oct 14	106.5	Oct 19	106.6
Fourth High:	Aug 20	144.3	May 26	104.3	Dec 16	103.3
California:						
First High:	Oct 11	439.3	May 20	133.0	Nov 15	180.2
Second High:	Oct 4	183.1	Sep 9	121.8	Dec 17	110.5
Third High:	Dec 13	168.0	Oct 14	104.7	Dec 16	107.3
Fourth High:	Aug 20	140.8	Oct 15	102.4	Oct 19	105.1

National:			
Estimated # Days > 24-Hr Std:	*	0.0	1.0
Measured # Days > 24-Hr Std:	3	0	1
3-Yr Avg Est # Days > 24-Hr Std:	*	*	*
Annual Average:	*49.0*	*45.9*	*39.3*
3-Year Average:	*	*	*45*
California:			
Estimated # Days > 24-Hr Std:	*	138.7	109.1
Measured # Days > 24-Hr Std:	124	135	106
Annual Average:	*	46.8	39.8
3-Year Maximum Annual Average:	*	47	47
Year Coverage:	0	0	0

Notes:

- Daily PM10 averages and related statistics are available at Bakersfield-5558 California Avenue between 1994 and 2023. Some years in this range may not be represented.
- All averages expressed in micrograms per cubic meter.
- The national annual average PM10 standard was revoked in December 2006 and is no longer in effect. Statistics related to the revoked standard are shown in *italics* or *italics* .
- An exceedance of a standard is not necessarily related to a violation of the standard.
- All values listed above represent midnight-to-midnight 24-hour averages and may be related to an exceptional event.
- State and national statistics may differ for the following reasons:
  - State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers.
  - State statistics for 1998 and later are based on local conditions (except for sites in the South Coast Air Basin, where State statistics for 2002 and later are based on local conditions). National statistics are based on standard conditions.
  - State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.
- Measurements are usually collected every six days. Measured days counts the days that a measurement was greater than the level of the standard; Estimated days mathematically estimates how many days concentrations would have been greater than the level of the standard had each day been monitored.
- 3-Year statistics represent the listed year and the 2 years before the listed year.
- Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
- * means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily 24-Hour PM10 Averages

at Bakersfield-Golden State Highway

	2021		2022		2023	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Oct 25	175.0	Jan 17	64.7	Nov 15	236.3
Second High:	Oct 1	134.9	Jan 11	46.0	Oct 19	130.4
Third High:	Aug 20	126.5		*	Oct 12	113.2
Fourth High:	Sep 25	112.4		*	Dec 17	113.2
California:						
First High:	Oct 25	176.3	May 20	167.0	Nov 15	235.0
Second High:	Oct 1	133.1	Oct 19	138.7	Oct 19	128.5
Third High:	Aug 20	122.8	Oct 6	133.2	Dec 17	117.0
Fourth High:	Sep 25	110.3	Sep 9	131.1	Dec 16	114.7
National:						
Estimated # Days > 24-Hr Std:		*		*		*
Measured # Days > 24-Hr Std:		1		0		1
3-Yr Avg Est # Days > 24-Hr Std:		*		*		*
Annual Average:		*51.0*		*8.2*		*48.4*
3-Year Average:		*56*		*40*		*
California:						
Estimated # Days > 24-Hr Std:		*		*		*
Measured # Days > 24-Hr Std:		25		178		146
Annual Average:		*		*		*
3-Year Maximum Annual Average:		56		*		*
Year Coverage:		95		1		0

Notes:

- Daily PM10 averages and related statistics are available at Bakersfield-Golden State Highway between 1994 and 2023. Some years in this range may not be represented.
- All averages expressed in micrograms per cubic meter.
- The national annual average PM10 standard was revoked in December 2006 and is no longer in effect. Statistics related to the revoked standard are shown in *italics* or *italics* .
- An exceedance of a standard is not necessarily related to a violation of the standard.
- All values listed above represent midnight-to-midnight 24-hour averages and may be related to an exceptional event.
- State and national statistics may differ for the following reasons:
  - State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers.
  - State statistics for 1998 and later are based on local conditions (except for sites in the South Coast Air Basin, where State statistics for 2002 and later are based on local conditions). National statistics are based on standard conditions.
  - State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.
- Measurements are usually collected every six days. Measured days counts the days that a measurement was greater than the level of the standard; Estimated days mathematically estimates how many days concentrations would have been greater than the level of the standard had each day been monitored.
- 3-Year statistics represent the listed year and the 2 years before the listed year.
- Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
- * means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily 24-Hour PM10 Averages

at Oildale-3311 Manor Street

	2021		2022		2023	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Oct 11	421.4	May 20	149.4	Nov 15	270.4
Second High:	Oct 4	164.3	Oct 5	118.8	Oct 19	125.5
Third High:	Oct 25	150.2	Sep 28	115.8	Dec 14	104.9
Fourth High:	Oct 1	137.6	Oct 6	113.4	Oct 18	101.5
California:						
First High:	Oct 11	423.0	May 20	146.3	Nov 15	266.0
Second High:	Oct 4	161.1	Oct 5	115.8	Oct 19	122.4
Third High:	Oct 25	149.3	Sep 28	112.3	Dec 14	108.3
Fourth High:	Oct 1	135.2	Oct 19	110.9	Oct 18	99.8
National:						
Estimated # Days > 24-Hr Std:		2.2		0.0		1.1
Measured # Days > 24-Hr Std:		2		0		1
3-Yr Avg Est # Days > 24-Hr Std:		9.0		6.0		1.0
Annual Average:		*50.0*		*44.9*		*38.8*
3-Year Average:		*51*		*51*		*45*
California:						
Estimated # Days > 24-Hr Std:		135.6		128.8		104.7
Measured # Days > 24-Hr Std:		129		127		102
Annual Average:		49.4		45.0		38.7
3-Year Maximum Annual Average:		49		49		49
Year Coverage:		0		0		0

Notes:

- Daily PM10 averages and related statistics are available at Oildale-3311 Manor Street between 1988 and 2023. Some years in this range may not be represented.
- All averages expressed in micrograms per cubic meter.
- The national annual average PM10 standard was revoked in December 2006 and is no longer in effect. Statistics related to the revoked standard are shown in *italics* or *italics* .
- An exceedance of a standard is not necessarily related to a violation of the standard.
- All values listed above represent midnight-to-midnight 24-hour averages and may be related to an exceptional event.
- State and national statistics may differ for the following reasons:
  - State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers.
  - State statistics for 1998 and later are based on local conditions (except for sites in the South Coast Air Basin, where State statistics for 2002 and later are based on local conditions). National statistics are based on standard conditions.
  - State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.
- Measurements are usually collected every six days. Measured days counts the days that a measurement was greater than the level of the standard; Estimated days mathematically estimates how many days concentrations would have been greater than the level of the standard had each day been monitored.
- 3-Year statistics represent the listed year and the 2 years before the listed year.
- Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
- * means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily 24-Hour PM2.5 Averages

at Bakersfield-5558 California Avenue

	2021		2022		2023	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Oct 30	72.3	Jan 21	58.1	Dec 17	63.7
Second High:	Oct 4	69.4	Dec 17	54.7	Dec 16	55.5
Third High:	Oct 29	66.4	Dec 16	52.9	Dec 14	42.5
Fourth High:	Nov 19	59.5	Dec 18	52.2	Dec 15	41.2
California:						
First High:	Oct 30	72.3	Jan 21	58.1	Dec 17	63.7
Second High:	Oct 4	70.5	Dec 7	56.3	Dec 16	55.5
Third High:	Oct 29	66.4	Dec 17	54.7	Dec 14	42.5
Fourth High:	Nov 19	59.5	Dec 16	52.9	Dec 15	41.2
National:						
'06 Estimated # Days > 24-Hr Std:		43.2		35.0		9.7
'06 Measured # Days > 24-Hr Std:		40		34		9
2006 24-Hr Std Design Value:		60		62		47
2006 24-Hr Std 98th Percentile:		56.9		48.5		36.0
2006 Annual Std Design Value:		16.1		17.4		14.8
2006 Annual Average:		16.5		15.7		12.0
2012 Annual Std Design Value:		16.1		17.4		14.8
2012 Annual Average:		16.5		15.7		12.0
2024 Annual Std Design Value:		16.1		17.4		14.8
2024 Annual Average:		16.5		15.7		12.0
California:						
Annual Std Designation Value:		20		20		17
Annual Average:		16.6		*		12.0
Year Coverage:		95		94		93

Notes:

Daily PM2.5 averages and related statistics are available at Bakersfield-5558 California Avenue between 1999 and 2023. Some years in this range may not be represented.

All averages expressed in micrograms per cubic meter.

An exceedance of a standard is not necessarily related to a violation of the standard.

State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily 24-Hour PM2.5 Averages

at Bakersfield-Golden State Highway

	2021		2022		2023	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Oct 4	78.5	Dec 17	58.6	Dec 17	58.0
Second High:	Dec 4	63.3	Dec 16	54.7	Dec 16	53.4
Third High:	Nov 19	59.1	Dec 21	54.0	Dec 14	42.8
Fourth High:	Nov 20	59.1	Jan 14	53.9	Dec 26	42.7
California:						
First High:	Oct 4	78.5	Dec 17	58.6	Dec 17	58.0
Second High:	Dec 4	63.3	Dec 16	54.7	Dec 16	53.4
Third High:	Nov 19	59.1	Dec 21	54.0	Dec 14	42.8
Fourth High:	Nov 20	59.1	Jan 14	53.9	Dec 26	42.7
National:						
'06 Estimated # Days > 24-Hr Std:		45.6		35.9		9.5
'06 Measured # Days > 24-Hr Std:		43		33		9
2006 24-Hr Std Design Value:		59		61		48
2006 24-Hr Std 98th Percentile:		54.3		51.8		37.5
2006 Annual Std Design Value:		16.6		18.0		16.0
2006 Annual Average:		17.8		16.6		13.5
2012 Annual Std Design Value:		16.6		18.0		16.0
2012 Annual Average:		17.8		16.6		13.5
2024 Annual Std Design Value:		16.6		18.0		16.0
2024 Annual Average:		17.8		16.6		13.5
California:						
Annual Std Designation Value:		*		*		14
Annual Average:		*		*		13.6
Year Coverage:		91		92		95

Notes:

Daily PM2.5 averages and related statistics are available at Bakersfield-Golden State Highway between 1999 and 2023. Some years in this range may not be represented.

All averages expressed in micrograms per cubic meter.

An exceedance of a standard is not necessarily related to a violation of the standard.

State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily Maximum Hourly Nitrogen Dioxide Measurements

at Bakersfield-5558 California Avenue

	2021		2022		2023	
	Date	Measurement	Date	Measurement	Date	Measurement
National:						
First High:	Oct 4	57.2	Mar 1	53.6	Nov 3	57.7
Second High:	Dec 1	56.2	Oct 31	50.0	Nov 1	47.1
Third High:	Dec 2	54.8	Feb 10	49.9	Nov 2	46.8
Fourth High:	Nov 30	54.6	Feb 7	49.4	Dec 16	44.1
California:						
First High:	Oct 4	57	Mar 1	53	Nov 3	57
Second High:	Dec 1	56	Oct 31	50	Nov 1	47
Third High:	Nov 30	54	Feb 7	49	Nov 2	46
Fourth High:	Dec 2	54	Feb 10	49	Dec 16	44
National:						
1-Hour Standard Design Value:	49		47		46	
1-Hour Standard 98th Percentile:	48.4		47.7		41.8	
# Days Above the Standard:	0		0		0	
Annual Standard Design Value:	11		11		10	
California:						
1-Hour Std Designation Value:	60		60		60	
Expected Peak Day Concentration:	60		55		55	
# Days Above the Standard:	0		0		0	
Annual Std Designation Value:	11		11		11	
Annual Average:	10		11		9	
Year Coverage:	98		99		99	

Notes:

Hourly nitrogen dioxide measurements and related statistics are available at Bakersfield-5558 California Avenue between 1994 and 2023. Some years in this range may not be represented.

All concentrations expressed in parts per billion.

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Top 4 Summary: Highest 4 Daily Maximum Hourly Nitrogen Dioxide Measurements

at Shafter-Walker Street

	2021		2022		2023	
	Date	Measurement	Date	Measurement	Date	Measurement
National:						
First High:	Dec 1	47.8	Jan 27	34.9	Dec 14	41.5
Second High:	Nov 30	46.0	Oct 5	32.9	Dec 16	35.9
Third High:	Dec 2	37.5	Nov 22	32.5	Oct 28	34.0
Fourth High:	Sep 30	36.7	Feb 11	32.0	Dec 13	33.9
California:						
First High:	Dec 1	47	Jan 27	34	Dec 14	41
Second High:	Nov 30	46	Feb 11	32	Dec 16	35
Third High:	Dec 2	37	Oct 5	32	Oct 28	34
Fourth High:	Sep 30	36	Nov 22	32	Nov 11	33
National:						
1-Hour Standard Design Value:		34		32		32
1-Hour Standard 98th Percentile:		32.9		30.1		31.5
# Days Above the Standard:		0		0		0
Annual Standard Design Value:		8		8		7
California:						
1-Hour Std Designation Value:		40		40		40
Expected Peak Day Concentration:		42		37		37
# Days Above the Standard:		0		0		0
Annual Std Designation Value:		8		8		8
Annual Average:		8		7		6
Year Coverage:		87		98		98

Notes:

Hourly nitrogen dioxide measurements and related statistics are available at Shafter-Walker Street between 1989 and 2023. Some years in this range may not be represented.

All concentrations expressed in parts per billion.

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Welcome to California

Air Resources Board

View a Different Site
View a Different Substance

Annual Toxics Summary

Bakersfield-5558 California Avenue

Lead

nanograms per cubic meter

iADAM FAQs

Read About Estimated Risk

Year	Months Present	Minimum	Median	Mean	90th Percentile	Maximum	Standard Deviation	Number of Observations	Detection Limit	Estimated Risk
2024	----------	0.7	2.6	*	4.5	4.6	1.43	12	0.59	*
2023	----------	0.65	3.4	3.46	5.5	9.5	1.78	31	1.3	0.1
2022	----------	0.65	3.5	3.62	6.0	10.8	2.20	30	1.3	0.1
2021	----------	0.65	2.8	*	5.8	9.9	2.28	24	1.3	*
2020	----------	1.5	*	*	*	5.7	1.38	9	1.3	*
2019	----------	0.65	3.5	3.70	6.3	8.5	1.91	34	1.3	0.1
2018	----------	0.65	3.6	3.92	7.0	11.7	2.38	37	1.3	0.1
2017	----------	0.65	3.5	*	7.5	12.6	2.60	29	1.3	*
2016	----------	0.65	4.3	*	6.9	19.8	3.57	33	1.3	*
2015	----------	0.65	3.2	3.34	7.6	9.5	2.50	33	1.3	0.1
2014	----------	0.85	3.6	*	8.8	14	3.78	16	1.7	*
2013	----------	0.5	2.9	*	5.3	6.7	1.71	21	1.0	*
2012	----------	1.7	3.4	4.02	8.2	14	2.74	32	1.5	0.1
2011	----------	0.75	4.0	*	9.1	11	2.90	20	1.5	*
2010	----------	0.75	2.5	*	5.7	8.2	2.07	18	1.5	*
2009	----------	1.5	4.5	5.27	11.2	14	3.22	29	1.5	0.2
2008	----------	*	*	*	*	*	*	0	*	*
2007	----------	0.75	7.1	*	11.7	13	3.23	24	1.5	*
2006	----------	*	*	*	*	*	*	0	*	*
2005	----------	*	*	*	*	*	*	0	*	*
2004	----------	*	*	*	*	*	*	0	*	*
2003	----------	4.0	*	*	*	7.0	1.64	5	3.0	*
2002	----------	1.5	7.0	6.78	10	17	3.34	36	3.0	0.2
2001	----------	2	5.0	5.83	9.2	26	4.41	39	4.0	0.2
2000	----------	2	5.0	5.92	14.1	22	4.76	40	4.0	0.2
1999	----------	2	5.0	5.70	11.2	25	4.55	39	4.0	0.2
1998	----------	2	7.0	9.43	14	78	11.8	42	4.0	0.3
1997	----------	2	7.0	7.92	14	20	4.40	34	4.0	0.3
1996	----------	2	7.0	7.69	14.5	35	6.10	36	4.0	0.3
1995	----------	2	8.0	8.68	15.1	21	5.14	30	4.0	0.3
1994	----------	2	10	*	16	39	7.11	25	4.0	*
1993	----------	*	*	*	*	*	*	0	*	*
1992	----------	*	*	*	*	*	*	0	*	*
1991	----------	*	*	*	*	*	*	0	*	*
1990	----------	*	*	*	*	*	*	0	*	*
1989	----------	*	*	*	*	*	*	0	*	*

Graph It!

Toxics Statistics Home

Notes: Values below the Limit of Detection (LoD) assumed to be ½ LoD.
Means and risks shown only for years with data in all 12 months.
"*" means there was insufficient or no data available to determine the value.

Data Descriptions Page

APPENDIX B. PROJECT EMISSION CALCULATIONS

Phase 1 Planning Area Summary

Planning Area	APN	Net Parcel Size		Building		Landscape		Parking Stalls		Building Height
		(Sq. Ft.)	(Acres)	(Sq. Ft.)	Coverage	(Sq. Ft.)	Coverage	Standard	Truck	(20%)
1	482-010-01 482-040-01, 02, 03	1,956,014	44.9	646,800	33%	611,350	31%	556	174	Std. (52')
2	482-010-01	1,695,429	38.92	646,800	38%	342,487	20%	556	174	Std. (52')
3	482-010-01	2,108,574	48.41	771,600	37%	500,158	24%	486	424	High Cube (135')
4	482-010-01	1,979,060	45.43	738,000	37%	464,870	23%	346	406	Std. (52')
5	482-010-11	1,707,533	39.2	571,200	33%	503,896	30%	276	300	Std. (52')
6	482-010-01, 03 482-040-03	1,039,531	23.86	248,640	24%	450,917	43%	212	162	Std. (52')
7	482-010-01	619,511	14.22	147,000	24%	229,932	37%	160	300	Std. (52')
8	482-010-01, 02, 03	2,074,348	47.62	771,600	37%	508,028	24%	416	424	High Cube (135')
9	482-010-01,02	2,003,797	46	771,600	39%	437,477	22%	416	424	Std. (52')
10	482-010-11	734,208	16.86	174,720	24%	288,774	39%	260	52	Std. (52')
11	482-010-11	730,087	16.76	174,720	24%	231,523	32%	270	52	Std. (52')
12	482-010-01, 03	995,599	22.86	231,826	23%	398,050	40%	166	100	Std. (52')
13	482-010-02, 03	1,962,746	45.06	130,628 445,372	29%	194,864 664,383	44% 44%	260	152	Std. (52')
14	482-010-02	2,233,629	51.28	771,600	35%	612,948	27%	416	424	High Cube (135')
Net Totals	**--**	**21,840,067**	**501.38**	**7,242,106**	**33%**	**6,439,657**	**29%**	**4,796**	**3,568**	--

Phase 2 Planning Area Summary

Planning Area	APN	Net Parcel Size		Building		Landscape		Parking Stalls		Building Height
		(Sq. Ft.)	(Acres)	(Sq. Ft.)	Coverage	(Sq. Ft.)	Coverage	Standard	Truck	(20%)
1	091-160-01, 02, 03	933,528	21.43	150,000	16%	370,467	40%	354	90	Std. (52')
2	091-160-02, 03, 09	973,004	22.34	262,500	27%	179,103	18%	352	158	Std. (52')
3	091-160-02, 03, 09, 13	1,070,513	24.58	220,000	21%	225,708	21%	273	244	High Cube (135')
4	091-150-03 091-160-03	380,304	8.73	100,000	26%	63,991	17%	154	54	Std. (52')
5	091-150-03 091-160-03, 13	229,790	5.28	74,725	33%	52,824	23%	21	-	Std. (52')
6	091-160-02, 09,13, 16	694,316	15.94	123,750	18%	235,569	34%	192	100	
7	091-160-09, 16 091-200-04, 05	1,048,631	24.07	231,826	22%	425,064	41%	166	92	High Cube (135')
8	091-200-04, 05, 14	940,688	21.6	231,826	25%	278,095	30%	324	92	Std. (52')
9	091-200-05, 07, 14	603,161	13.85	150,000	25%	63,525	11%	294	94	Std. (52')
10	091-160- 09, 13, 16, 091-200-05, 14	416,641	9.56	120,713	29%	75,325	18%	27	-	Std. (52')
Net Totals	**--**	**7,290,575**	**167.37**	**1,544,628**	**21%**	**1,969,669**	**27%**	**2,130**	**924**	--

Short Term Project Emissions - Unmitigated

Year	ROG	NOx	CO	SO_2	PM_{10} Total	$PM_{2.5}$ Total
	tons/yr					
2025	0.82	3.65	4.66	0.01	1.16	0.51
2026	1.10	3.78	6.50	0.01	1.12	0.39
2027	2.17	3.07	5.38	0.01	0.83	0.28
2028	1.67	3.42	5.35	0.01	1.15	0.47
2029	1.59	2.89	5.01	0.01	0.86	0.32
2030	2.64	2.71	4.24	0.01	0.80	0.35
2031	1.19	1.52	2.56	0.00	0.34	0.13
2032	0.63	1.75	2.90	0.01	0.84	0.34
2033	0.23	1.56	3.17	0.01	0.69	0.19
2034	2.05	1.28	2.42	0.01	0.64	0.22
2035	0.24	1.64	3.07	0.01	0.84	0.28
2036	0.21	1.44	2.96	0.01	0.68	0.18
2037	2.01	1.03	1.95	0.00	0.39	0.13
2038	1.01	1.17	2.01	0.00	0.55	0.24
2039	0.16	1.23	2.50	0.01	0.52	0.15
2040	1.54	1.18	2.20	0.01	0.69	0.27
2041	0.18	1.31	2.70	0.01	0.68	0.19
2042	0.17	1.29	2.68	0.01	0.65	0.17
2043	1.95	1.15	2.19	0.01	0.79	0.31
2044	0.17	1.29	2.70	0.01	0.68	0.18
2045	2.01	1.02	2.11	0.01	0.53	0.15
2046	0.18	1.26	2.54	0.01	0.79	0.27
2047	0.15	1.17	2.43	0.01	0.55	0.15
2048	1.70	1.05	2.11	0.01	0.73	0.27
2049	0.15	1.17	2.46	0.01	0.57	0.15
2050	1.60	0.32	0.67	0.00	0.12	0.03
Maximum	**2.64**	**3.78**	**6.50**	**0.01**	**1.16**	**0.51**

Short Term Project Emissions - Mitigated

Year	ROG	NOx	CO	SO_2	PM_{10} Total	$PM_{2.5}$ Total
	tons/yr					
2025	0.82	3.65	4.66	0.01	0.61	0.28
2026	1.10	3.78	6.50	0.01	0.98	0.33
2027	2.17	3.07	5.38	0.01	0.77	0.26
2028	1.67	3.42	5.35	0.01	0.74	0.29
2029	1.59	2.89	5.01	0.01	0.70	0.24
2030	2.64	2.71	4.24	0.01	0.46	0.20
2031	1.19	1.52	2.56	0.00	0.26	0.10
2032	0.63	1.75	2.90	0.01	0.50	0.18
2033	0.23	1.56	3.17	0.01	0.69	0.19
2034	2.05	1.28	2.42	0.01	0.51	0.16
2035	0.24	1.64	3.07	0.01	0.63	0.19
2036	0.21	1.44	2.96	0.01	0.68	0.18
2037	2.01	1.03	1.95	0.00	0.31	0.10
2038	1.01	1.17	2.01	0.00	0.24	0.10
2039	0.16	1.23	2.50	0.01	0.50	0.14
2040	1.54	1.18	2.20	0.01	0.41	0.14
2041	0.18	1.31	2.70	0.01	0.63	0.17
2042	0.17	1.29	2.68	0.01	0.65	0.17
2043	1.95	1.15	2.19	0.01	0.45	0.15
2044	0.17	1.29	2.70	0.01	0.68	0.18
2045	2.01	1.02	2.11	0.01	0.49	0.13
2046	0.18	1.26	2.54	0.01	0.55	0.17
2047	0.15	1.17	2.43	0.01	0.55	0.15
2048	1.70	1.05	2.11	0.01	0.44	0.14
2049	0.15	1.17	2.46	0.01	0.57	0.15
2050	1.60	0.32	0.67	0.00	0.12	0.03
Maximum	**2.64**	**3.78**	**6.50**	**0.01**	**0.98**	**0.33**

Threshold	10	10	100	27	15	15
Exceeded?	No	No	No	No	No	No

Unmitigated Operational by Parcel

Phase	Parcel	ROG	NOx	CO	SO_2	PM_{10} T	$PM_{2.5}$ T	Total CO_2	CH_4	N_2O	Refrigerant	CO_2e
		tons/yr						MT/year				
1	1	0.81	4.51	6.83	0.05	3.20	0.90	5,516	10.45	0.64	0.28	5,969
1	2	0.81	4.53	6.85	0.05	3.20	0.90	5,531	10.45	0.64	0.38	5,985
1	3	0.98	5.46	8.24	0.06	3.82	1.07	6,651	12.47	0.77	0.69	7,194
1	4	0.95	5.27	7.94	0.06	3.66	1.02	6,401	11.93	0.75	0.88	6,922
1	5	0.75	4.18	6.24	0.04	2.84	0.79	5,031	9.24	0.59	1.07	5,437
1	6	0.36	2.11	3.05	0.02	1.24	0.35	2,456	4.03	0.29	1.72	2,644
1	7	0.14	0.04	0.61	0.00	0.61	0.16	250	2.37	0.03	-	319
1	8	1.06	6.13	8.96	0.06	3.84	1.08	7,221	12.49	0.85	3.63	7,789
1	9	1.03	5.85	8.63	0.06	3.83	1.08	6,963	12.48	0.81	2.32	7,520
1	10	0.23	1.31	1.94	0.01	0.87	0.24	1,565	2.83	0.18	0.45	1,691
1	11	0.23	1.31	1.94	0.01	0.87	0.24	1,566	2.83	0.18	0.45	1,691
1	12	0.33	2.01	2.91	0.02	1.16	0.33	2,331	3.76	0.28	1.79	2,509
1	13	1.05	2.26	9.28	0.03	2.68	0.72	4,632	9.43	0.37	1,968.31	6,946
1	14	1.16	7.09	10.21	0.07	3.85	1.09	8,081	12.51	0.96	7.32	8,687
2	1	0.22	1.27	1.84	0.01	0.75	0.21	1,488	2.43	0.17	1.04	1,602
2	2	0.38	2.28	3.29	0.02	1.31	0.37	2,647	4.26	0.31	2.03	2,848
2	3	0.33	1.96	2.83	0.02	1.10	0.31	2,270	3.57	0.27	1.89	2,441
2	4	0.15	0.87	1.25	0.01	0.50	0.14	1,008	1.62	0.12	0.77	1,085
2	5	0.11	0.67	0.96	0.01	0.37	0.11	764	1.21	0.09	0.64	821
2	6	0.19	1.17	1.69	0.01	0.62	0.18	1,329	2.01	0.16	1.29	1,428
2	7	0.35	2.20	3.17	0.02	1.16	0.33	2,478	3.76	0.29	2.41	2,662
2	8	0.36	2.27	3.28	0.02	1.16	0.33	2,531	3.76	0.30	2.64	2,717
2	9	0.24	1.52	2.21	0.02	0.75	0.21	1,671	2.44	0.20	1.84	1,793
2	10	0.18	1.11	1.60	0.01	0.60	0.17	1,259	1.96	0.15	1.14	1,353
Max		**1.16**	**7.09**	**10.21**	**0.07**	**3.85**	**1.09**	**8,081**	**12.51**	**0.96**	**1,968**	**8,687**

Mitigated Operational by Parcel

Phase	Parcel	ROG	NOx	CO	SO_2	PM_{10} T	$PM_{2.5}$ T	Total CO_2	CH_4	N_2O	Refrigerant	CO_2e
		tons/yr						MT/year				
1	1	0.81	4.51	6.83	0.05	3.20	0.90	5,516	10.45	0.64	0.28	5,969
1	2	0.81	4.53	6.85	0.05	3.20	0.90	5,531	10.45	0.64	0.38	5,985
1	3	0.98	5.46	8.24	0.06	3.82	1.07	6,651	12.47	0.77	0.69	7,194
1	4	0.95	5.27	7.94	0.06	3.66	1.02	6,401	11.93	0.75	0.88	6,922
1	5	0.75	4.18	6.24	0.04	2.84	0.79	5,031	9.24	0.59	1.07	5,437
1	6	0.36	2.11	3.05	0.02	1.24	0.35	2,456	4.03	0.29	1.72	2,644
1	7	0.14	0.04	0.61	0.00	0.61	0.16	250	2.37	0.03	-	319
1	8	1.06	6.13	8.96	0.06	3.84	1.08	7,221	12.49	0.85	3.63	7,789
1	9	1.03	5.85	8.63	0.06	3.83	1.08	6,963	12.48	0.81	2.32	7,520
1	10	0.23	1.31	1.94	0.01	0.87	0.24	1,565	2.83	0.18	0.45	1,691
1	11	0.23	1.31	1.94	0.01	0.87	0.24	1,566	2.83	0.18	0.45	1,691
1	12	0.33	2.01	2.91	0.02	1.16	0.33	2,331	3.76	0.28	1.79	2,509
1	13	1.05	2.26	9.28	0.03	2.68	0.72	4,632	9.43	0.37	1,968.31	6,946
1	14	1.16	7.09	10.21	0.07	3.85	1.09	8,081	12.51	0.96	7.32	8,687
2	1	0.22	1.27	1.84	0.01	0.75	0.21	1,488	2.43	0.17	1.04	1,602
2	2	0.38	2.28	3.29	0.02	1.31	0.37	2,647	4.26	0.31	2.03	2,848
2	3	0.33	1.96	2.83	0.02	1.10	0.31	2,270	3.57	0.27	1.89	2,441
2	4	0.15	0.87	1.25	0.01	0.50	0.14	1,008	1.62	0.12	0.77	1,085
2	5	0.11	0.67	0.96	0.01	0.37	0.11	764	1.21	0.09	0.64	821
2	6	0.19	1.17	1.69	0.01	0.62	0.18	1,329	2.01	0.16	1.29	1,428
2	7	0.35	2.20	3.17	0.02	1.16	0.33	2,478	3.76	0.29	2.41	2,662
2	8	0.36	2.27	3.28	0.02	1.16	0.33	2,531	3.76	0.30	2.64	2,717
2	9	0.24	1.52	2.21	0.02	0.75	0.21	1,671	2.44	0.20	1.84	1,793
2	10	0.18	1.11	1.60	0.01	0.60	0.17	1,259	1.96	0.15	1.14	1,353
Max		**1.16**	**7.09**	**10.21**	**0.07**	**3.85**	**1.09**	**8,081**	**12.51**	**0.96**	**1,968**	**8,687**

Unmitigated Operational - Phase 1

Category	ROG	NOx	CO	SO_2	PM_{10} T	$PM_{2.5}$ T	Total CO_2	CH_4	N_2O	Refrigerant	CO_2e
	tons/yr						MT/year				
Mobile	2.56	48.94	47.08	0.54	36.09	9.96	50,889	0.34	5.80	3.19	52,630
Mobile-TRU	0.30	2.33	0.28	0.00	0.08	0.07	462	-	-	-	462
Area	6.55	0.24	28.67	0.00	0.05	0.04	107	0.00	0.00	-	107
Energy	0.10	1.88	1.58	0.01	0.14	0.14	10,264	1.51	0.17	-	10,351
Water	-	-	-	-	-	-	1,178	55.21	1.32	-	2,953
Waste	-	-	-	-	-	-	614	61.41	-	-	2,150
Refrig.	-	-	-	-	-	-	-	-	-	1,965	1,965
Total	**9.51**	**53.40**	**77.61**	**0.55**	**36.36**	**10.21**	**63,515**	**118**	**7.29**	**1,968**	**70,617**

Unmitigated Operational - Phase 2

Category	ROG	NOx	CO	SO_2	PM_{10} T	$PM_{2.5}$ T	Total CO_2	CH_4	N_2O	Refrigerant	CO_2e
	tons/yr						MT/year				
Mobile	0.86	13.62	13.52	0.14	8.26	2.31	13,770	0.14	1.60	12	14,261
Area	1.50	0.05	6.52	0.00	0.01	0.01	24	0.00	0.00	-	24
Energy	0.02	0.44	0.37	0.00	0.03	0.03	2,253	0.33	0.04	-	2,272
Water	-	-	-	-	-	-	270	13	0.30	-	673
Waste	-	-	-	-	-	-	140	14	0.00	-	489
Refrig.	-	-	-	-	-	-	-	-	-	-	-
Total	**2.39**	**14.11**	**20.40**	**0.15**	**8.30**	**2.35**	**16,457**	**27**	**1.94**	**12**	**17,720**

Mitigated Operational - Phase 1

Category	ROG	NOx	CO	SO_2	PM_{10} T	$PM_{2.5}$ T	Total CO_2	CH_4	N_2O	Refrigerant	CO_2e
	tons/yr						MT/year				
Mobile	2.56	48.94	47.08	0.54	36.09	9.96	50,889	0.34	5.80	3.19	52,630
Mobile-TRU	0.30	2.33	0.28	0.00	0.08	0.07	462	-	-	-	462
Area	6.55	0.24	28.67	0.00	0.05	0.04	107	0.00	0.00	-	107
Energy	0.10	1.88	1.58	0.01	0.14	0.14	10,264	1.51	0.17	-	10,351
Water	-	-	-	-	-	-	1,178	55.21	1.32	-	2,953
Waste	-	-	-	-	-	-	614	61.41	-	-	2,150
Refrig.	-	-	-	-		-	-	-	-	1,965	1,965
Total	**9.51**	**53.40**	**77.61**	**0.55**	**36.36**	**10.21**	**63,515**	**118**	**7.29**	**1,968**	**70,617**

Mitigated Operational - Phase 2

Category	ROG	NOx	CO	SO_2	PM_{10} T	$PM_{2.5}$ T	Total CO_2	CH_4	N_2O	Refrigerant	CO_2e
	tons/yr						MT/year				
Mobile	0.86	13.62	13.52	0.14	8.26	2.31	13,770	0.14	1.60	11.52	14,261
Area	1.50	0.05	6.52	0.00	0.01	0.01	24	0.00	0.00	-	24
Energy	0.02	0.44	0.37	0.00	0.03	0.03	2,253	0.33	0.04	-	2,272
Water	-	-	-	-	-	-	270	12.55	0.30	-	673
Waste	-	-	-	-	-	-	140	13.96	-	-	489
Refrig.	-	-	-	-		-	-	-	-	-	-
Total	**2.39**	**14.11**	**20.40**	**0.15**	**8.30**	**2.35**	**16,457**	**27**	**1.94**	**12**	**17,720**

Unmitigated Operational Total

Category	ROG	NOx	CO	SO_2	PM_{10} T	$PM_{2.5}$ T	Total CO_2	CH_4	N_2O	Refrigerant	CO_2e
	tons/yr						MT/year				
Mobile	3.42	62.57	60.59	0.68	44.34	12.26	64,659	0.49	7.40	14.72	66,891
Mobile-TRU	0.30	2.33	0.28	0.00	0.08	0.07	462	-	-	-	462
Area	8.05	0.30	35.19	0.00	0.06	0.05	131	0.01	0.00	-	132
Energy	0.13	2.32	1.95	0.01	0.18	0.18	12,517	1.84	0.20	-	12,623
Water	-	-	-	-	-	-	1,448	67.76	1.62	-	3,626
Waste	-	-	-	-	-	-	754	75.37	0.00	-	2,638
Refrig.	-	-	-	-		-	-	-	-	1,965	1,965
Total	**11.90**	**67.51**	**98.01**	**0.70**	**44.66**	**12.56**	**79,971**	**145**	**9.22**	**1,980**	**88,337**

Mitigated Operational Total

Category	ROG	NOx	CO	SO_2	PM_{10} T	$PM_{2.5}$ T	Total CO_2	CH_4	N_2O	Refrigerant	CO_2e
	tons/yr						MT/year				
Mobile	3.42	62.57	60.59	0.68	44.34	12.26	64,659	0.49	7.40	14.72	66,891
Mobile-TRU	0.30	2.33	0.28	0.00	0.08	0.07	462	-	-	-	462
Area	8.05	0.30	35.19	0.00	0.06	0.05	131	0.01	0.00	-	132
Energy	0.13	2.32	1.95	0.01	0.18	0.18	12,517	1.84	0.20	-	12,623
Water	-	-	-	-	-	-	1,448	67.76	1.62	-	3,626
Waste	-	-	-	-	-	-	754	75.37	-	-	2,638
Refrig.	-	-	-	-		-	-	-	-	1,965	1,965
Total	**11.90**	**67.51**	**98.01**	**0.70**	**44.66**	**12.56**	**79,971**	**145**	**9.22**	**1,980**	**88,337**

VERA	0	0	98.01	0.70	0	0	-		-	-	-

Operational Emissions by Year[1]

Year	ROG	NOx	CO	SO_2	$PM_{10}T$	$PM_{2.5}T$
	tons/yr					
2025	0.24	1.52	2.21	0.02	0.75	0.21
2030	4.83	25.40	42.67	0.27	15.25	4.28
2035	6.60	34.95	57.12	0.37	21.68	6.08
2040	8.85	47.59	75.88	0.51	30.09	8.44
2045	10.78	58.32	92.06	0.62	37.57	10.54
2050	12.41	67.36	105.74	0.72	43.98	12.33

1. Emissions shown by year for every five years until full buildout in 2050. Emissions are based on the planning areas that have started operation by the indicated calendar year. Emissions shown are conservative as it is the sum of the earliest operational year for each planning area (e.g. emissions for Phase 1 Planning Area 14 [P1-14] are based on calendar year 2028, which is the first year of operation for that planning area. For all years shown in the table above, P1-14 emissions are for 2028 and have not been adjusted for a newer calendar year.)

Transport Refrigeration Unit (TRU) Population by Category

Vehicle Category	Population[1]	Percentage	Activity[1] (Hours/Year)
Instate Genset	439	2.6%	342,807
Trailer	2,889	16.9%	5,146,732
Truck	618	3.6%	588,757
Out-of-State Genset	2,216	13.0%	274,759
Out-of-State Trailer	10,919	63.9%	2,969,923

1. Total TRU population and activity by vehicle category based CARB's Off-Road Web Query (v1.1.0) for the Kern (SJV) Sub-Area, Calendar Year 2025, Aggregate Model Year, Aggregate Horsepower Bin, Diesel Fuel.

TRU Daily Emissions by Vehicle Category

Vehicle Category	Daily Emissions (tons/day)[1]						
	ROG	NOx	CO	SO2	PM_{10}	$PM_{2.5}$	CO_2
Instate Genset	0.0028	0.0309	0.0025	0.0000	0.0009	0.0008	5.1711
Trailer	0.0817	0.5587	0.0750	0.0011	0.0146	0.0134	113.1926
Truck	0.0058	0.0628	0.0054	0.0001	0.0032	0.0030	10.0277
Out-of-State Genset	0.0024	0.0256	0.0022	0.0000	0.0008	0.0008	4.1305
Out-of-State Trailer	0.0473	0.3496	0.0434	0.0006	0.0118	0.0109	62.3989

1. Total TRU emissions based on CARB's Off-Road Web Query (v1.1.0) for the Kern (SJV) Sub-Area, Calendar Year 2025, Aggregate Model Year, Aggregate Horsepower Bin, Diesel Fuel.

TRU Annual Emissions by Vehicle Category

Vehicle Category	Annual Emissions (tons/year)[1]						
	ROG	NOx	CO	SO2	PM_{10}	$PM_{2.5}$	CO_2
Instate Genset	1.0135	11.2959	0.9304	0.0179	0.3184	0.2935	1,887.4417
Trailer	29.8275	203.9172	27.3914	0.3918	5.3227	4.8963	41,315.2887
Truck	2.1303	22.9151	1.9561	0.0347	1.1782	1.0844	3,660.1252
Out-of-State Genset	0.8593	9.3555	0.7895	0.0143	0.3062	0.2817	1,507.6406
Out-of-State Trailer	17.2705	127.6185	15.8571	0.2160	4.3104	3.9668	22,775.5998

1. Annual emissions calculated as Daily Emissions x 365 days per year.

TRU Hourly Emissions by Vehicle Category

Vehicle Category	Hourly Emissions (lbs/hour)[1]						
	ROG	NOx	CO	SO2	PM_{10}	$PM_{2.5}$	CO_2
Instate Genset	0.0059	0.0659	0.0054	0.0001	0.0019	0.0017	11.0117
Trailer	0.0116	0.0792	0.0106	0.0002	0.0021	0.0019	16.0550
Truck	0.0072	0.0778	0.0066	0.0001	0.0040	0.0037	12.4334
Out-of-State Genset	0.0063	0.0681	0.0057	0.0001	0.0022	0.0021	10.9743
Out-of-State Trailer	0.0116	0.0859	0.0107	0.0001	0.0029	0.0027	15.3375

1. Hourly emissions calculated by taking annual emissions for each vehicle category and dividing by activity (hours/year) for the respective vehicle category from CARB's Off-Road Web Query (v1.1.0).

Project TRU Emissions

Number of Truck Trips per Year	1,205,932	based on traffic study
TRU Trips per Year	60,297	assuming 5% of truck trips are TRUs
Average Travel Speed	52.8	mph (based on average truck travel speed per US DOE for the closest interstate, 5 Highway)
Truck Travel Distance	50	miles (per traffic engineer)
Travel Time per TRU	0.95	hours

	Annual Emissions (tons/year)						
	ROG	NOx	CO	SO2	PM_{10}	$PM_{2.5}$	CO_2
Instate Genset	0.004	0.048	0.004	0.000	0.001	0.001	8.08
Trailer	0.056	0.383	0.051	0.001	0.010	0.009	77.52
Truck	0.007	0.080	0.007	0.000	0.004	0.004	12.85
Out-of-State Genset	0.023	0.252	0.021	0.000	0.008	0.008	40.64
Out-of-State Trailer	0.212	1.568	0.195	0.003	0.053	0.049	279.92
Total	**0.303**	**2.332**	**0.278**	**0.004**	**0.077**	**0.071**	**419.01**

Project: Malibu Vineyards AQIA
Phase: 1 & 2 Combined

Key

Data from CalEEMod or client	value
Data entered in CalEEMod	value

Weekly Trips

Weekday Trip Rate[1] (trips/size unit)	Saturday Trip Rate[1] (trips/size unit)	Sunday Trip Rate[1] (trips/size unit)	# of Size Unit	Total Weekly[2] Trips	Total Annual Trips
1.52	1.52	1.52	8908	95,025	4,941,300

1.Weekly trip rate provided by traffic engineer.

2. Total Weekly Trips = [(Trip Rate$_{weekday}$ x 5) + Trip Rate$_{Saturday}$ + Trip Rate$_{Sunday}$] * Land Use$_i$

Average Trip Length

Trip Length (miles)[1]			Trip Purpose[2]			Trip Percentage[2]		
W-O	H-W	O-O	Primary	Diverted	Passby	W-O	H-W	O-O
0.0	14.3	50.0	100%	0%	0%	0.0%	75.6%	24.4%

1. 50 mile trip distance per traffic engineer.

2. Trip percentages are based on the ratio of passenger vehicles to total trips (H-W) and trucks (2-4+ axel) to total trips (O-O).

Annual VMT

Annual Trips by Type			Average Trip Length[1]			Annual VMT[2]			Total Annual VMT
W-O	H-W	O-O	W-O	H-W	O-O	W-O	H-W	O-O	
0	3,735,368	1,205,932	0.00	14.28	50.00	0	53,348,208	60,296,600	113,644,808

1. Average Trip Length$_{i,m}$ = (Link %$_{primary}$ x Trip Length$_{primary}$) + (Link %$_{diverted}$ x 0.25 x Trip Length$_{primary}$) + (Link %$_{passby}$ x 0.1 miles)

2. VMT = (Number of Trips x Average Trip Length)

Default Vehicle Fleet Mix

Category	Vehicle Type													
	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	Total
Default Fleet Mix	3.8940%	43.4152%	3.5115%	22.1441%	3.3612%	1.0479%	2.0264%	18.3705%	0.3424%	1.6193%	0.0577%	0.1744%	0.0355%	1.000000
Annual VMT by Vehicle Type	4,425,327	49,339,064	3,990,681	25,165,674	3,819,858	1,190,847	2,302,848	20,877,079	389,109	1,840,219	65,596	198,191	40,314	113,644,808

Non-HHD Truck Trip Adjustment

Annual VMTs[1]	Truck Ratio[2]				Truck Annual VMTs[3]			
	LHD1	LHD2	MDV	MHD	LHD1	LHD2	MDV	MHD
22,913,800	0.1378	0.0429	0.7529	0.0664	3,156,645	984,090	17,252,349	1,520,716

1. 4-axle or greater makes up approximately 62% of truck trips. Conservatively assuming all 4-axle or greater are HHD trucks. Non-HHD trucks represent the remaining 38%.

2. Ratio of each type to non-HHD truck categories. Non-HHD truck trips will be divided into these categories.

3. Annual non-HHD truck VMTs multiplied by truck category ratio.

Project: Malibu Vineyards AQIA
Phase: 1 & 2 Combined

Key

Data from CalEEMod or client	value
Data entered in CalEEMod	value

Passenger Vehicle Fleet Mix Adjustment

Annual VMTs[1]	Vehicle Ratio			Annual VMTs		
	LDA	LDT1	LDT2	LDA	LDT1	LDT2
53,348,208	62.86%	5.08%	32.06%	33,532,538	2,712,205	17,103,465

1. All H-W trips are assumed to be passenger vehicles (LDA, LDT1, or LDT2).

Adjusted Vehicle Fleet Mix

Category	Vehicle Type													
	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	Total
Annual VMT by Vehicle Type	37,382,800	33,532,538	2,712,205	17,103,465	3,156,645	984,090	0	17,252,349	0	1,520,716	0	0	0	113,644,808
Fleet Mix	32.894%	29.506%	2.387%	15.050%	2.778%	0.866%	0.000%	15.181%	0.000000	0.013381	0.000000	0.000000	0.000000	1.000000

	Vehicle Type	ADT Rate	ADT	Breakdown
Warehouse	2-axle	0.096	342	16.00%
	3-axle	0.132	470	21.99%
	4-axle	0.372	1325	62.00%
High-Cube	2-axle	0.0352	188	15.99%
	3-axle	0.0484	259	22.02%
	4-axle	0.1364	729	61.99%
TOTAL	2-axle	--	530	16.00%
	3-axle	--	729	22.00%
	4-axle	--	2054	62.00%

Consumer Product Use

Data Grouping	Total VOC (tons/day)	Population*	Total VOC (lbs/person-day)	Total Building Area (Square Feet)
2003 Survey Commercial (45.3% of 2003 Land Use Total)	47.4	-	-	-
2003 Survey Residential (48.0% of 2003 Land Use Total)	50.3	-	-	-
2003 Survey Industrial (6.7% of 2003 Land Use Total)	7.0	-	-	-
2003 Survey Land Use Total (42.3% of Grand Total)	104.7	-	-	86,000,000,000
2003 Survey CARB Data Total	186.3	34,650,690	1.08E-02	-
2006 Survey CARB Data Total	61.1	36,457,549	3.35E-03	-
Grand Total	247.3	-	1.41E-02	22,435,267,518

Data Grouping	Total VOC (tons/day)	Total VOC (lb/building sq.ft.)
2008 ARB Emission Inventory (Consumer Products)	239.6	**2.14E-05**
South Coast AQMD Rule 1143 reduction to 300 g/l	11.3	-
(as of 1/1/11) if 25 g/l gets upheld by the courts	17.5	-

Data Grouping	Total VOC (tons/day)	Total VOC (lb/building sq.ft.)
2003 Survey Industrial (6.7% of 2003 Land Use Total)	16.05	**1.07E-08**

Construction HHD Emissions

Off-Road Total Exhaust PM_{10}

Year	Phase 1 Exhaust (tpy)	Phase 2 Exhaust (tpy)	Total Exhaust PM_{10} (tpy)	Exhaust PM_{10} (lb/year)			Start Age (years)
				Total	PH01	PH02	
2025 (RI)			0.03	63			3rd Trimester
2025	0.067	0.044	0.11	223	134	89	3rd Trimester
2026	0.057	0.062	0.12	237	114	123	0
2027	0.046	0.047	0.09	187	93	94	1
2028	0.061	0.050	0.11	223	122	100	2
2029	0.039	0.046	0.09	171	78	93	3
2030	0.048	0.040	0.09	176	96	80	4
2031	0.037	0.007	0.04	89	75	15	5
2032	0.055	-	0.06	110	110	-	6
2033	0.030	-	0.03	61	61	-	7
2034	0.029	-	0.03	58	58	-	8
2035	0.039	-	0.04	79	79	-	9
2036	0.026	-	0.03	52	63	-	10
2037	0.022	-	0.02	44	44	-	11
2038	0.032	-	0.03	64	64	-	12
2039	0.023	-	0.02	45	45	-	13
2040	0.028	-	0.03	57	57	-	14
2041	0.023	-	0.02	46	46	-	15
2042	0.021	-	0.02	42	42	-	16
2043	0.027	-	0.03	54	54	-	17
2044	0.020	-	0.02	40	40	-	18
2045	0.016	-	0.02	32	32	-	19
2046	0.025	-	0.02	49	49	-	20
2047	0.018	-	0.02	36	36	-	21
2048	0.021	-	0.02	42	42	-	22
2049	0.017	-	0.02	35	35	-	23
2050	0.004	-	0.00	9	9	-	24
Maximum	**0.07**	**0.06**	**0.12**	**237**	**134**	**123**	

Operational HHD Emissions

On-Site Line Sources
Diesel Particulate Matter Emissions

Source Line	Source ID	On-site Distance[1] (meters)	Annual Emissions[2] (lb/year)	Daily Emissions[2] (lb/day)
PH1P01	P1P01TT	467.25	1.81E-01	4.95E-04
PH1P02	P1P02TT	195.28	7.55E-02	2.07E-04
PH1P03	P1P03TT	245.97	9.50E-02	2.60E-04
PH1P04	P1P04TT	281.37	1.09E-01	2.98E-04
PH1P05	P1P05TT	174.55	6.74E-02	1.85E-04
PH1P06	P1P06TT	337.58	1.30E-01	3.57E-04
PH1P07	P1P07TT	175.61	6.78E-02	1.86E-04
PH1P08	P1P08TT	269.73	1.04E-01	2.86E-04
PH1P09	P1P09TT	253.52	9.80E-02	2.68E-04
PH1P10	P1P10TT	151.64	5.86E-02	1.61E-04
PH1P11	P1P11TT	340.95	1.32E-01	3.61E-04
PH1P12	P1P12TT	159.18	6.15E-02	1.68E-04
PH1P13	P1P13TT	485.53	1.88E-01	5.14E-04
PH1P14	P1P14TT	550.55	2.13E-01	5.83E-04
PH2P01	P2P01TT	303.75	1.17E-01	3.22E-04
PH2P02	P2P02TT	370.37	1.43E-01	3.92E-04
PH2P03	P2P03TT	461.32	1.78E-01	4.88E-04
PH2P04	P2P04TT	246.72	9.53E-02	2.61E-04
PH2P05	P2P05TT	114.88	4.44E-02	1.22E-04
PH2P06	P2P06TT	298.96	1.16E-01	3.16E-04
PH2P07	P2P07TT	230.96	8.92E-02	2.44E-04
PH2P08	P2P08TT	203.72	7.87E-02	2.16E-04
PH2P09	P2P09TT	197.20	7.62E-02	2.09E-04
PH2P10	P2P10TT	105.88	4.09E-02	1.12E-04

1. On-site distance is one-way distance.
2. Emissions for each source based on ratio of length to total length for each phase.

On-Site Line Sources
Diesel Particulate Matter Emissions

Phase	HHD Trucks per[2] Week	Average On-site[1] Distance (meters)	On-site Distance[1] (miles)	Miles Traveled per year	Annual Emissions[3] (lb/year)	Daily Emissions[3] (lb/day)
Combined	14,378	275.935	0.171	256,383.1	2.56	7.01E-03

1. Average On-site Distance is the distance of the average one-way trip from the site boundary to the building.
2. Total of 11,697 HHD trucks per week for Phase 1 and 2,681 HHD trucks per week for Phase 2.
3. Conservatively assuming all PM10 emissions equal DPM emissions.

Off-Site Truck Travel

Phase	Source ID	HHD Trips per Week	Off-site Distance[1] (miles)	Off-site Distance[1] (meters)	Miles Traveled per year	Annual Emissions[3] (lb/year)	Daily Emissions[3] (lb/day)
Phase 1	PH1OTT	11,697	0.25	402.336	152,061	1.52	4.16E-03
Phase 1	P1TTHW	11,697	0.25	402.336	152,061	1.52	4.16E-03
Phase 1	P1TTBB	11,697	0.25	402.336	152,061	1.52	4.16E-03
Phase 2	PH2OTT	2,681	0.25	402.336	34,853	0.35	9.53E-04

PM10 RUNEx Emission Factor

Operation Year	Emission Factor[1] (g/mile)	Emission Factor (lb/mile)
2050	4.53E-03	9.98E-06

1. EMFAC2021 PM10 RUNEX EF for T7 Single Other Class 8 at 15mph.

On-Site Truck Idling - Point Sources
Diesel Particulate Matter Emissions

Phase	HHD trucks[1] /week	Idle minutes/truck	Idle hours/year	Idle days/year	Annual Emissions[1] (lb/year)	Daily Emissions[1] (lb/day)
Combined	13,659	15	177,568	7,398.7	0.13	3.55E-04

1. 95% of total HHD trucks. Project conservatively assumes 5% of HHD trucks are TRUs.

Source	Source ID	Annual Emissions[1] (lb/year)	Daily Emissions[1] (lb/day)
PH1P01	P1P01ID	5.39E-03	1.48E-05
PH1P02	P1P02ID	5.39E-03	1.48E-05
PH1P03	P1P03ID	5.39E-03	1.48E-05
PH1P04	P1P04ID	5.39E-03	1.48E-05
PH1P05	P1P05ID	5.39E-03	1.48E-05
PH1P06	P1P06ID	5.39E-03	1.48E-05
PH1P07	P1P07ID	5.39E-03	1.48E-05
PH1P08	P1P08ID	5.39E-03	1.48E-05
PH1P09	P1P09ID	5.39E-03	1.48E-05
PH1P10	P1P10ID	5.39E-03	1.48E-05
PH1P11	P1P11ID	5.39E-03	1.48E-05
PH1P12	P1P12ID	5.39E-03	1.48E-05
PH1P13	P1P13ID	5.39E-03	1.48E-05
PH1P14	P1P14ID	5.39E-03	1.48E-05
PH2P01	P2P01ID	5.39E-03	1.48E-05
PH2P02	P2P02ID	5.39E-03	1.48E-05
PH2P03	P2P03ID	5.39E-03	1.48E-05
PH2P04	P2P04ID	5.39E-03	1.48E-05
PH2P05	P2P05ID	5.39E-03	1.48E-05
PH2P06	P2P06ID	5.39E-03	1.48E-05
PH2P07	P2P07ID	5.39E-03	1.48E-05
PH2P08	P2P08ID	5.39E-03	1.48E-05
PH2P09	P2P09ID	5.39E-03	1.48E-05
PH2P10	P2P10ID	5.39E-03	1.48E-05

1. Conservatively assuming all PM10 emissions equal DPM emissions.

PM10 Idling Emission Factor

Operation Year	Emission Factor[1] (g/veh/day)	Emission Factor (lb/veh/day)
2050	7.94E-03	1.75E-05

1. EMFAC2021 PM10 IDLEX EF for T7 Single Other Class 8.

TRU Idling - Point Source (PH1TRUID)
Diesel Particulate Matter Emissions

Operational Year	TRU Emission Factor[1] (g/hour)	TRU Emission Factor (lb/hour)
2050	0.21	0.00046

1. PM10 emission factor as provided by SJVAPCD. SJVAPCD values are derived from CARB's TRU database 1085_v1. Assume PM10 emissions equal DPM emissions.

Source ID	HHD Trips per[1] Week	HHD Trips per Year	Onsite Minutes[2] per Trip	Hours per Year	Annual Emissions[3] (lb/year)	Hourly Emissions[3] (lb/hr)
P1P13ID	719	37,383	30	18,691	8.65	0.001

1. Conservatively assuming 5% of truck trips are TRUs.
2. Per SJVAPCD guidance, TRUs are assumed to operate for 30 minutes onsite per trip.
3. Conservatively assuming all PM10 emissions equal DPM emissions.

TRU Travel Emissions (on-site + quarter mile off-site)

On-site

Number of Truck Trips per Year	1,205,932	based on traffic study
TRU Trips per Year	60,297	assuming 5% of truck trips are TRUs
Average Travel Speed	15	mph (average truck speed on site)
Truck Travel Distance	0.30	miles (on site distance)
Travel Time per TRU	0.02	hours

Category	Percentage	PM10 Emission Factor (lb/hour)	Annual PM_{10}[1] Emissions (lb/year)
Instate Genset	2.6%	0.002	0.058
Trailer	16.9%	0.002	0.424
Truck	3.6%	0.004	0.176
Out-of-State Genset	13.0%	0.002	0.351
Out-of-State Trailer	63.9%	0.003	2.250
Total			**3.26**

1. Conservatively assuming all PM10 emissions equal DPM emissions.

Off-site (quarter mile)

Number of Truck Trips per Year	1,205,932	based on traffic study
TRU Trips per Year	60,297	assuming 5% of truck trips are TRUs
Average Travel Speed	15	mph
Truck Travel Distance	0.25	miles
Travel Time per TRU	0.017	hours

Category	Percentage	PM10 Emission Factor (lb/hour)	Annual PM_{10}[1] Emissions (lb/year)
Instate Genset	2.6%	0.002	0.048
Trailer	16.9%	0.002	0.352
Truck	3.6%	0.004	0.146
Out-of-State Genset	13.0%	0.002	0.291
Out-of-State Trailer	63.9%	0.003	1.865
Total			**2.70**

1. Conservatively assuming all PM10 emissions equal DPM emissions.

Energy Operational Emissions

Device			Tons/Year					Pounds/Year					AAQA Emission Inputs (g/sec)											
ID	sqft	% of total	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	NOx 1 Hour	NOx Annual	CO 1 Hour	CO 8 Hour	SO_2 1 Hour	SO_2 3 Hour	SO_2 24 Hour	SO_2 Annual	PM_{10} 24 Hour	PM_{10} Annual	$PM_{2.5}$ 24 Hour	$PM_{2.5}$ Annual
P1P01	646,800	8.93%	0.17	0.14	0.00	0.01	0.01	335.97	282.22	2.02	25.53	25.53	4.83E-03	4.83E-03	4.06E-03	4.06E-03	2.90E-05	2.90E-05	2.90E-05	2.90E-05	3.67E-04	3.67E-04	3.67E-04	3.67E-04
P1P02	646,800	8.93%	0.17	0.14	0.00	0.01	0.01	335.97	282.22	2.02	25.53	25.53	4.83E-03	4.83E-03	4.06E-03	4.06E-03	2.90E-05	2.90E-05	2.90E-05	2.90E-05	3.67E-04	3.67E-04	3.67E-04	3.67E-04
P1P03	771,600	10.65%	0.20	0.17	0.00	0.02	0.02	400.80	336.67	2.40	30.46	30.46	5.76E-03	5.76E-03	4.84E-03	4.84E-03	3.46E-05	3.46E-05	3.46E-05	3.46E-05	4.38E-04	4.38E-04	4.38E-04	4.38E-04
P1P04	738,000	10.19%	0.19	0.16	0.00	0.01	0.01	383.35	322.01	2.30	29.13	29.13	5.51E-03	5.51E-03	4.63E-03	4.63E-03	3.31E-05	3.31E-05	3.31E-05	3.31E-05	4.19E-04	4.19E-04	4.19E-04	4.19E-04
P1P05	571,200	7.89%	0.15	0.12	0.00	0.01	0.01	296.70	249.23	1.78	22.55	22.55	4.27E-03	4.27E-03	3.58E-03	3.58E-03	2.56E-05	2.56E-05	2.56E-05	2.56E-05	3.24E-04	3.24E-04	3.24E-04	3.24E-04
P1P06	248,640	3.43%	0.06	0.05	0.00	0.00	0.00	129.15	108.49	0.77	9.82	9.82	1.86E-03	1.86E-03	1.56E-03	1.56E-03	1.11E-05	1.11E-05	1.11E-05	1.11E-05	1.41E-04	1.41E-04	1.41E-04	1.41E-04
P1P07	147,000	2.03%	0.04	0.03	0.00	0.00	0.00	76.36	64.14	0.46	5.80	5.80	1.10E-03	1.10E-03	9.23E-04	9.23E-04	6.59E-06	6.59E-06	6.59E-06	6.59E-06	8.35E-05	8.35E-05	8.35E-05	8.35E-05
P1P08	771,600	10.65%	0.20	0.17	0.00	0.02	0.02	400.80	336.67	2.40	30.46	30.46	5.76E-03	5.76E-03	4.84E-03	4.84E-03	3.46E-05	3.46E-05	3.46E-05	3.46E-05	4.38E-04	4.38E-04	4.38E-04	4.38E-04
P1P09	771,600	10.65%	0.20	0.17	0.00	0.02	0.02	400.80	336.67	2.40	30.46	30.46	5.76E-03	5.76E-03	4.84E-03	4.84E-03	3.46E-05	3.46E-05	3.46E-05	3.46E-05	4.38E-04	4.38E-04	4.38E-04	4.38E-04
P1P10	174,720	2.41%	0.05	0.04	0.00	0.00	0.00	90.76	76.24	0.54	6.90	6.90	1.31E-03	1.31E-03	1.10E-03	1.10E-03	7.83E-06	7.83E-06	7.83E-06	7.83E-06	9.92E-05	9.92E-05	9.92E-05	9.92E-05
P1P11	174,720	2.41%	0.05	0.04	0.00	0.00	0.00	90.76	76.24	0.54	6.90	6.90	1.31E-03	1.31E-03	1.10E-03	1.10E-03	7.83E-06	7.83E-06	7.83E-06	7.83E-06	9.92E-05	9.92E-05	9.92E-05	9.92E-05
P1P12	231,826	3.20%	0.06	0.05	0.00	0.00	0.00	120.42	101.15	0.72	9.15	9.15	1.73E-03	1.73E-03	1.45E-03	1.45E-03	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.32E-04	1.32E-04	1.32E-04	1.32E-04
P1P13	576,000	7.95%	0.15	0.13	0.00	0.01	0.01	299.20	251.33	1.80	22.74	22.74	4.30E-03	4.30E-03	3.61E-03	3.61E-03	2.58E-05	2.58E-05	2.58E-05	2.58E-05	3.27E-04	3.27E-04	3.27E-04	3.27E-04
P1P14	771,600	10.65%	0.20	0.17	0.00	0.02	0.02	400.80	336.67	2.40	30.46	30.46	5.76E-03	5.76E-03	4.84E-03	4.84E-03	3.46E-05	3.46E-05	3.46E-05	3.46E-05	4.38E-04	4.38E-04	4.38E-04	4.38E-04
P2P01	150,000	9.01%	0.04	0.03	0.00	0.00	0.00	78.44	65.89	0.47	5.96	5.96	1.13E-03	1.13E-03	9.48E-04	9.48E-04	6.77E-06	6.77E-06	6.77E-06	6.77E-06	8.57E-05	8.57E-05	8.57E-05	8.57E-05
P2P02	262,500	15.76%	0.07	0.06	0.00	0.01	0.01	137.28	115.31	0.82	10.43	10.43	1.97E-03	1.97E-03	1.66E-03	1.66E-03	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.50E-04	1.50E-04	1.50E-04	1.50E-04
P2P03	220,000	13.21%	0.06	0.05	0.00	0.00	0.00	115.05	96.64	0.69	8.74	8.74	1.65E-03	1.65E-03	1.39E-03	1.39E-03	9.93E-06	9.93E-06	9.93E-06	9.93E-06	1.26E-04	1.26E-04	1.26E-04	1.26E-04
P2P04	100,000	6.00%	0.03	0.02	0.00	0.00	0.00	52.30	43.93	0.31	3.97	3.97	7.52E-04	7.52E-04	6.32E-04	6.32E-04	4.51E-06	4.51E-06	4.51E-06	4.51E-06	5.72E-05	5.72E-05	5.72E-05	5.72E-05
P2P05a	12,454	0.75%	0.00	0.00	0.00	0.00	0.00	6.51	5.47	0.04	0.49	0.49	9.37E-05	9.37E-05	7.87E-05	7.87E-05	5.62E-07	5.62E-07	5.62E-07	5.62E-07	7.12E-06	7.12E-06	7.12E-06	7.12E-06
P2P05b	12,454	0.75%	0.00	0.00	0.00	0.00	0.00	6.51	5.47	0.04	0.49	0.49	9.37E-05	9.37E-05	7.87E-05	7.87E-05	5.62E-07	5.62E-07	5.62E-07	5.62E-07	7.12E-06	7.12E-06	7.12E-06	7.12E-06
P2P05c	12,454	0.75%	0.00	0.00	0.00	0.00	0.00	6.51	5.47	0.04	0.49	0.49	9.37E-05	9.37E-05	7.87E-05	7.87E-05	5.62E-07	5.62E-07	5.62E-07	5.62E-07	7.12E-06	7.12E-06	7.12E-06	7.12E-06
P2P05d	12,454	0.75%	0.00	0.00	0.00	0.00	0.00	6.51	5.47	0.04	0.49	0.49	9.37E-05	9.37E-05	7.87E-05	7.87E-05	5.62E-07	5.62E-07	5.62E-07	5.62E-07	7.12E-06	7.12E-06	7.12E-06	7.12E-06
P2P05e	12,454	0.75%	0.00	0.00	0.00	0.00	0.00	6.51	5.47	0.04	0.49	0.49	9.37E-05	9.37E-05	7.87E-05	7.87E-05	5.62E-07	5.62E-07	5.62E-07	5.62E-07	7.12E-06	7.12E-06	7.12E-06	7.12E-06
P2P05f	12,454	0.75%	0.00	0.00	0.00	0.00	0.00	6.51	5.47	0.04	0.49	0.49	9.37E-05	9.37E-05	7.87E-05	7.87E-05	5.62E-07	5.62E-07	5.62E-07	5.62E-07	7.12E-06	7.12E-06	7.12E-06	7.12E-06
P2P06	123,750	7.43%	0.03	0.03	0.00	0.00	0.00	64.72	54.36	0.39	4.92	4.92	9.31E-04	9.31E-04	7.82E-04	7.82E-04	5.58E-06	5.58E-06	5.58E-06	5.58E-06	7.07E-05	7.07E-05	7.07E-05	7.07E-05
P2P07	231,826	13.92%	0.06	0.05	0.00	0.00	0.00	121.23	101.84	0.73	9.21	9.21	1.74E-03	1.74E-03	1.46E-03	1.46E-03	1.05E-05	1.05E-05	1.05E-05	1.05E-05	1.33E-04	1.33E-04	1.33E-04	1.33E-04
P2P08	231,826	13.92%	0.06	0.05	0.00	0.00	0.00	121.23	101.84	0.73	9.21	9.21	1.74E-03	1.74E-03	1.46E-03	1.46E-03	1.05E-05	1.05E-05	1.05E-05	1.05E-05	1.33E-04	1.33E-04	1.33E-04	1.33E-04
P2P09	150,000	9.01%	0.04	0.03	0.00	0.00	0.00	78.44	65.89	0.47	5.96	5.96	1.13E-03	1.13E-03	9.48E-04	9.48E-04	6.77E-06	6.77E-06	6.77E-06	6.77E-06	8.57E-05	8.57E-05	8.57E-05	8.57E-05
P2P10a	20,119	1.21%	0.01	0.00	0.00	0.00	0.00	10.52	8.84	0.06	0.80	0.80	1.51E-04	1.51E-04	1.27E-04	1.27E-04	9.08E-07	9.08E-07	9.08E-07	9.08E-07	1.15E-05	1.15E-05	1.15E-05	1.15E-05
P2P10b	20,119	1.21%	0.01	0.00	0.00	0.00	0.00	10.52	8.84	0.06	0.80	0.80	1.51E-04	1.51E-04	1.27E-04	1.27E-04	9.08E-07	9.08E-07	9.08E-07	9.08E-07	1.15E-05	1.15E-05	1.15E-05	1.15E-05
P2P10c	20,119	1.21%	0.01	0.00	0.00	0.00	0.00	10.52	8.84	0.06	0.80	0.80	1.51E-04	1.51E-04	1.27E-04	1.27E-04	9.08E-07	9.08E-07	9.08E-07	9.08E-07	1.15E-05	1.15E-05	1.15E-05	1.15E-05
P2P10d	20,119	1.21%	0.01	0.00	0.00	0.00	0.00	10.52	8.84	0.06	0.80	0.80	1.51E-04	1.51E-04	1.27E-04	1.27E-04	9.08E-07	9.08E-07	9.08E-07	9.08E-07	1.15E-05	1.15E-05	1.15E-05	1.15E-05
P2P10e	20,119	1.21%	0.01	0.00	0.00	0.00	0.00	10.52	8.84	0.06	0.80	0.80	1.51E-04	1.51E-04	1.27E-04	1.27E-04	9.08E-07	9.08E-07	9.08E-07	9.08E-07	1.15E-05	1.15E-05	1.15E-05	1.15E-05
P2P10f	20,119	1.21%	0.01	0.00	0.00	0.00	0.00	10.52	8.84	0.06	0.80	0.80	1.51E-04	1.51E-04	1.27E-04	1.27E-04	9.08E-07	9.08E-07	9.08E-07	9.08E-07	1.15E-05	1.15E-05	1.15E-05	1.15E-05

Area Operational Emissions

Device			Tons/Year					Pounds/Year					AAQA Emission Inputs (g/sec)											
ID	sqft	% of total	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	NOx 1 Hour	NOx Annual	CO 1 Hour	CO 8 Hour	SO_2 1 Hour	SO_2 3 Hour	SO_2 24 Hour	SO_2 Annual	PM_{10} 24 Hour	PM_{10} Annual	$PM_{2.5}$ 24 Hour	$PM_{2.5}$ Annual
PrkP1P01	467	11.43%	0.03	3.28	0.00	0.01	0.00	55.15	6,553.64	0.39	11.64	8.80	7.93E-04	7.93E-04	9.43E-02	9.43E-02	5.62E-06	5.62E-06	5.62E-06	5.62E-06	1.67E-04	1.67E-04	1.27E-04	1.27E-04
PrkP1P02	195	4.78%	0.01	1.37	0.00	0.00	0.00	23.05	2,739.02	0.16	4.87	3.68	3.32E-04	3.32E-04	3.94E-02	3.94E-02	2.35E-06	2.35E-06	2.35E-06	2.35E-06	7.00E-05	7.00E-05	5.29E-05	5.29E-05
PrkP1P03	246	6.02%	0.01	1.72	0.00	0.00	0.00	29.03	3,449.96	0.21	6.13	4.63	4.18E-04	4.18E-04	4.96E-02	4.96E-02	2.96E-06	2.96E-06	2.96E-06	2.96E-06	8.81E-05	8.81E-05	6.66E-05	6.66E-05
PrkP1P04	281	6.88%	0.02	1.97	0.00	0.00	0.00	33.21	3,946.46	0.24	7.01	5.30	4.78E-04	4.78E-04	5.68E-02	5.68E-02	3.39E-06	3.39E-06	3.39E-06	3.39E-06	1.01E-04	1.01E-04	7.62E-05	7.62E-05
PrkP1P05	175	4.27%	0.01	1.22	0.00	0.00	0.00	20.60	2,448.23	0.15	4.35	3.29	2.96E-04	2.96E-04	3.52E-02	3.52E-02	2.10E-06	2.10E-06	2.10E-06	2.10E-06	6.25E-05	6.25E-05	4.73E-05	4.73E-05
PrkP1P06	338	8.26%	0.02	2.37	0.00	0.00	0.00	39.84	4,734.96	0.28	8.41	6.36	5.73E-04	5.73E-04	6.81E-02	6.81E-02	4.06E-06	4.06E-06	4.06E-06	4.06E-06	1.21E-04	1.21E-04	9.14E-05	9.14E-05
PrkP1P07	176	4.29%	0.01	1.23	0.00	0.00	0.00	20.73	2,463.05	0.15	4.37	3.31	2.98E-04	2.98E-04	3.54E-02	3.54E-02	2.11E-06	2.11E-06	2.11E-06	2.11E-06	6.29E-05	6.29E-05	4.76E-05	4.76E-05
PrkP1P08	270	6.60%	0.02	1.89	0.00	0.00	0.00	31.83	3,783.18	0.23	6.72	5.08	4.58E-04	4.58E-04	5.44E-02	5.44E-02	3.25E-06	3.25E-06	3.25E-06	3.25E-06	9.67E-05	9.67E-05	7.31E-05	7.31E-05
PrkP1P09	254	6.20%	0.01	1.78	0.00	0.00	0.00	29.92	3,555.89	0.21	6.32	4.77	4.30E-04	4.30E-04	5.11E-02	5.11E-02	3.05E-06	3.05E-06	3.05E-06	3.05E-06	9.08E-05	9.08E-05	6.87E-05	6.87E-05
PrkP1P10	152	3.71%	0.01	1.06	0.00	0.00	0.00	17.90	2,126.88	0.13	3.78	2.86	2.57E-04	2.57E-04	3.06E-02	3.06E-02	1.82E-06	1.82E-06	1.82E-06	1.82E-06	5.43E-05	5.43E-05	4.11E-05	4.11E-05
PrkP1P11	341	8.34%	0.02	2.39	0.00	0.00	0.00	40.24	4,782.13	0.29	8.49	6.42	5.79E-04	5.79E-04	6.88E-02	6.88E-02	4.10E-06	4.10E-06	4.10E-06	4.10E-06	1.22E-04	1.22E-04	9.24E-05	9.24E-05
PrkP1P12	159	3.89%	0.01	1.12	0.00	0.00	0.00	18.79	2,232.63	0.13	3.97	3.00	2.70E-04	2.70E-04	3.21E-02	3.21E-02	1.92E-06	1.92E-06	1.92E-06	1.92E-06	5.70E-05	5.70E-05	4.31E-05	4.31E-05
PrkP1P13	486	11.87%	0.03	3.41	0.00	0.01	0.00	57.30	6,810.07	0.41	12.10	9.14	8.24E-04	8.24E-04	9.80E-02	9.80E-02	5.84E-06	5.84E-06	5.84E-06	5.84E-06	1.74E-04	1.74E-04	1.32E-04	1.32E-04
PrkP1P14	551	13.47%	0.03	3.86	0.00	0.01	0.01	64.98	7,721.99	0.46	13.72	10.37	9.35E-04	9.35E-04	1.11E-01	1.11E-01	6.63E-06	6.63E-06	6.63E-06	6.63E-06	1.97E-04	1.97E-04	1.49E-04	1.49E-04
PrkP2P01	304	13.13%	0.01	0.86	0.00	0.00	0.00	14.41	1,712.10	0.10	3.04	2.30	2.07E-04	2.07E-04	2.46E-02	2.46E-02	1.47E-06	1.47E-06	1.47E-06	1.47E-06	4.37E-05	4.37E-05	3.31E-05	3.31E-05
PrkP2P02	370	16.01%	0.01	1.04	0.00	0.00	0.00	17.57	2,087.61	0.12	3.71	2.80	2.53E-04	2.53E-04	3.00E-02	3.00E-02	1.79E-06	1.79E-06	1.79E-06	1.79E-06	5.33E-05	5.33E-05	4.03E-05	4.03E-05
PrkP2P03	461	19.94%	0.01	1.30	0.00	0.00	0.00	21.88	2,600.29	0.16	4.62	3.49	3.15E-04	3.15E-04	3.74E-02	3.74E-02	2.23E-06	2.23E-06	2.23E-06	2.23E-06	6.64E-05	6.64E-05	5.02E-05	5.02E-05
PrkP2P04	247	10.67%	0.01	0.70	0.00	0.00	0.00	11.70	1,390.66	0.08	2.47	1.87	1.68E-04	1.68E-04	2.00E-02	2.00E-02	1.19E-06	1.19E-06	1.19E-06	1.19E-06	3.55E-05	3.55E-05	2.69E-05	2.69E-05
PrkP2P06	299	12.93%	0.01	0.84	0.00	0.00	0.00	14.18	1,685.09	0.10	2.99	2.26	2.04E-04	2.04E-04	2.42E-02	2.42E-02	1.45E-06	1.45E-06	1.45E-06	1.45E-06	4.30E-05	4.30E-05	3.25E-05	3.25E-05
PrkP2P07	231	9.99%	0.01	0.65	0.00	0.00	0.00	10.95	1,301.84	0.08	2.31	1.75	1.58E-04	1.58E-04	1.87E-02	1.87E-02	1.12E-06	1.12E-06	1.12E-06	1.12E-06	3.33E-05	3.33E-05	2.51E-05	2.51E-05
PrkP2P08	204	8.81%	0.00	0.57	0.00	0.00	0.00	9.66	1,148.29	0.07	2.04	1.54	1.39E-04	1.39E-04	1.65E-02	1.65E-02	9.85E-07	9.85E-07	9.85E-07	9.85E-07	2.93E-05	2.93E-05	2.22E-05	2.22E-05
PrkP2P09	197	8.53%	0.00	0.56	0.00	0.00	0.00	9.35	1,111.52	0.07	1.97	1.49	1.35E-04	1.35E-04	1.60E-02	1.60E-02	9.54E-07	9.54E-07	9.54E-07	9.54E-07	2.84E-05	2.84E-05	2.15E-05	2.15E-05

On-Site Emissions - Mobile Reduction	
Total Annual Trips	4,941,300
On-Site VMT[1]	3,621,292
Total VMT[2]	114,710,767
On-Site/Off-Site Ratio	0.0316

1. On-Site Length (mi): 0.73

2. Total CalEEMod VMTs

	Phase 1	Phase 2	Total
Trip Ratio	0.81	0.19	1.00
Annual Trips	4,017,472	923,828	4,941,300
On-Site Length (mi)	0.80	0.67	--
On-Site VMT	3,195,810	619,192	3,815,002
Total VMT [1]	93,264,392	21,446,375	114,710,767
On-Site/Off-Site Ratio	0.03	0.03	--

1. Total CalEEMod VMTs

Mobile (Passenger + HHD) Operational Emissions

Device			Tons/Year					Pounds/Year					AAQA Emission Inputs (g/sec)											
ID	meters	% of Total	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	NOx 1 Hour	NOx Annual	CO 1 Hour	CO 8 Hour	SO_2 1 Hour	SO_2 3 Hour	SO_2 24 Hour	SO_2 Annual	PM_{10} 24 Hour	PM_{10} Annual	$PM_{2.5}$ 24 Hour	$PM_{2.5}$ Annual
PrkP1P01	467	11.43%	0.19	0.18	0.00	0.14	0.04	383.32	368.70	4.20	282.61	77.98	5.51E-03	5.51E-03	5.30E-03	5.30E-03	6.04E-05	6.04E-05	6.04E-05	6.04E-05	4.06E-03	4.06E-03	1.12E-03	1.12E-03
PrkP1P02	195	4.78%	0.08	0.08	0.00	0.06	0.02	160.21	154.09	1.76	118.11	32.59	2.30E-03	2.30E-03	2.22E-03	2.22E-03	2.53E-05	2.53E-05	2.53E-05	2.53E-05	1.70E-03	1.70E-03	4.69E-04	4.69E-04
PrkP1P03	246	6.02%	0.10	0.10	0.00	0.07	0.02	201.79	194.09	2.21	148.77	41.05	2.90E-03	2.90E-03	2.79E-03	2.79E-03	3.18E-05	3.18E-05	3.18E-05	3.18E-05	2.14E-03	2.14E-03	5.90E-04	5.90E-04
PrkP1P04	281	6.88%	0.12	0.11	0.00	0.09	0.02	230.83	222.02	2.53	170.18	46.96	3.32E-03	3.32E-03	3.19E-03	3.19E-03	3.64E-05	3.64E-05	3.64E-05	3.64E-05	2.45E-03	2.45E-03	6.75E-04	6.75E-04
PrkP1P05	175	4.27%	0.07	0.07	0.00	0.05	0.01	143.20	137.73	1.57	105.57	29.13	2.06E-03	2.06E-03	1.98E-03	1.98E-03	2.26E-05	2.26E-05	2.26E-05	2.26E-05	1.52E-03	1.52E-03	4.19E-04	4.19E-04
PrkP1P06	338	8.26%	0.14	0.13	0.00	0.10	0.03	276.95	266.38	3.03	204.18	56.34	3.98E-03	3.98E-03	3.83E-03	3.83E-03	4.37E-05	4.37E-05	4.37E-05	4.37E-05	2.94E-03	2.94E-03	8.10E-04	8.10E-04
PrkP1P07	176	4.29%	0.07	0.07	0.00	0.05	0.01	144.06	138.57	1.58	106.21	29.31	2.07E-03	2.07E-03	1.99E-03	1.99E-03	2.27E-05	2.27E-05	2.27E-05	2.27E-05	1.53E-03	1.53E-03	4.22E-04	4.22E-04
PrkP1P08	270	6.60%	0.11	0.11	0.00	0.08	0.02	221.28	212.84	2.42	163.14	45.02	3.18E-03	3.18E-03	3.06E-03	3.06E-03	3.49E-05	3.49E-05	3.49E-05	3.49E-05	2.35E-03	2.35E-03	6.47E-04	6.47E-04
PrkP1P09	254	6.20%	0.10	0.10	0.00	0.08	0.02	207.99	200.05	2.28	153.34	42.31	2.99E-03	2.99E-03	2.88E-03	2.88E-03	3.28E-05	3.28E-05	3.28E-05	3.28E-05	2.21E-03	2.21E-03	6.09E-04	6.09E-04
PrkP1P10	152	3.71%	0.06	0.06	0.00	0.05	0.01	124.40	119.65	1.36	91.72	25.31	1.79E-03	1.79E-03	1.72E-03	1.72E-03	1.96E-05	1.96E-05	1.96E-05	1.96E-05	1.32E-03	1.32E-03	3.64E-04	3.64E-04
PrkP1P11	341	8.34%	0.14	0.13	0.00	0.10	0.03	279.71	269.03	3.07	206.22	56.90	4.02E-03	4.02E-03	3.87E-03	3.87E-03	4.41E-05	4.41E-05	4.41E-05	4.41E-05	2.97E-03	2.97E-03	8.18E-04	8.18E-04
PrkP1P12	159	3.89%	0.07	0.06	0.00	0.05	0.01	130.59	125.60	1.43	96.28	26.57	1.88E-03	1.88E-03	1.81E-03	1.81E-03	2.06E-05	2.06E-05	2.06E-05	2.06E-05	1.38E-03	1.38E-03	3.82E-04	3.82E-04
PrkP1P13	486	11.87%	0.28	0.20	0.00	0.15	0.04	558.15	402.20	4.64	298.93	85.87	8.03E-03	8.03E-03	5.79E-03	5.79E-03	6.67E-05	6.67E-05	6.67E-05	6.67E-05	4.30E-03	4.30E-03	1.24E-03	1.24E-03
PrkP1P14	551	13.47%	0.23	0.22	0.00	0.17	0.05	451.66	434.43	4.95	332.99	91.89	6.50E-03	6.50E-03	6.25E-03	6.25E-03	7.12E-05	7.12E-05	7.12E-05	7.12E-05	4.79E-03	4.79E-03	1.32E-03	1.32E-03
PrkP2P01	304	13.13%	0.05	0.05	0.00	0.03	0.01	103.30	102.50	1.10	62.61	17.48	1.49E-03	1.49E-03	1.47E-03	1.47E-03	1.58E-05	1.58E-05	1.58E-05	1.58E-05	9.01E-04	9.01E-04	2.51E-04	2.51E-04
PrkP2P02	370	16.01%	0.06	0.06	0.00	0.04	0.01	125.96	124.98	1.34	76.34	21.32	1.81E-03	1.81E-03	1.80E-03	1.80E-03	1.93E-05	1.93E-05	1.93E-05	1.93E-05	1.10E-03	1.10E-03	3.07E-04	3.07E-04
PrkP2P03	461	19.94%	0.08	0.08	0.00	0.05	0.01	156.89	155.67	1.67	95.09	26.55	2.26E-03	2.26E-03	2.24E-03	2.24E-03	2.40E-05	2.40E-05	2.40E-05	2.40E-05	1.37E-03	1.37E-03	3.82E-04	3.82E-04
PrkP2P04	247	10.67%	0.04	0.04	0.00	0.03	0.01	83.91	83.25	0.89	50.86	14.20	1.21E-03	1.21E-03	1.20E-03	1.20E-03	1.28E-05	1.28E-05	1.28E-05	1.28E-05	7.31E-04	7.31E-04	2.04E-04	2.04E-04
PrkP2P06	299	12.93%	0.05	0.05	0.00	0.03	0.01	101.67	100.88	1.08	61.62	17.21	1.46E-03	1.46E-03	1.45E-03	1.45E-03	1.56E-05	1.56E-05	1.56E-05	1.56E-05	8.86E-04	8.86E-04	2.47E-04	2.47E-04
PrkP2P07	231	9.99%	0.04	0.04	0.00	0.02	0.01	78.55	77.94	0.84	47.61	13.29	1.13E-03	1.13E-03	1.12E-03	1.12E-03	1.20E-05	1.20E-05	1.20E-05	1.20E-05	6.85E-04	6.85E-04	1.91E-04	1.91E-04
PrkP2P08	204	8.81%	0.03	0.03	0.00	0.02	0.01	69.28	68.74	0.74	41.99	11.72	9.97E-04	9.97E-04	9.89E-04	9.89E-04	1.06E-05	1.06E-05	1.06E-05	1.06E-05	6.04E-04	6.04E-04	1.69E-04	1.69E-04
PrkP2P09	197	8.53%	0.03	0.03	0.00	0.02	0.01	67.06	66.54	0.71	40.65	11.35	9.65E-04	9.65E-04	9.57E-04	9.57E-04	1.03E-05	1.03E-05	1.03E-05	1.03E-05	5.85E-04	5.85E-04	1.63E-04	1.63E-04

AAQA for Malibu Vineyards Light Industrial
All values are in µg/m^3

Device	NOx 1 Hour	NOx Annual	CO 1 Hour	CO 8 Hour	SOx 1 Hour	SOx 3 Hour	SOx 24 Hour	SOx Annual	PM10 24 Hour	PM10 Annual	PM2.5 24 Hour	PM2.5 Annual
Malibu	36.51	1.25	339.33	124.98	0.31	0.19	0.05	0.01	2.60	0.64	0.73	0.18
Background	115.10	18.63	2097.00	1048.50	28.50	25.65	5.86	1.55	129.00	39.30	71.90	12.70
Project Totals	**151.61**	**19.88**	**2436**	**1173**	**28.81**	**25.84**	**5.91**	**1.56**	**131.60**	**39.94**	**72.63**	**12.88**
AAQS	*188.68*	*57*	*23000*	*10000*	*196*	*1300*	*105*	*80*	*50*	*20*	*35*	*12*
	Pass	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass***	**Pass***	**Pass***	**Pass***

Project Significance Level (µg/m^3)

Category	NOx 1 Hour	NOx Annual	CO 1 Hour	CO 8 Hour	SOx 1 Hour	SOx 3 Hour	SOx 24 Hour	SOx Annual	PM10 24 Hour	PM10 Annual	PM2.5 24 Hour	PM2.5 Annual
Project	--	--	--	--	--	--	--	--	2.60	0.64	0.73	0.18
SIL	*7.5*	*1*	*2000*	*500*	*7.8*	*25*	*5*	*1*	*10.4*	*2.08*	*2.5*	*0.63*
	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**Pass**	**Pass**	**Pass**	**Pass**

APPENDIX C. CALEEMOD REPORTS

Malibu - Road Improvements Custom Report

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1.1. Basic Project Information

Data Field	Value
Project Name	Malibu - Road Improvements
Construction Start Date	6/2/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.45620742943312, -119.10102974820123
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Construction	2.75	Mile	6.67	0.00	—	—	—	Road Construction

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.92	3.31	27.5	32.6	0.06	1.21	3.71	4.92	1.11	0.47	1.58	—	7,103	7,103	0.29	0.08	2.15	7,136
Mit.	3.92	3.31	27.5	32.6	0.06	1.21	1.36	2.56	1.11	0.21	1.32	—	7,103	7,103	0.29	0.08	2.15	7,136
% Reduced	—	—	—	—	—	—	63%	48%	—	54%	16%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.57	0.48	4.05	4.73	0.01	0.17	0.53	0.70	0.16	0.07	0.23	—	1,046	1,046	0.04	0.01	0.15	1,051
Mit.	0.57	0.48	4.05	4.73	0.01	0.17	0.20	0.37	0.16	0.03	0.19	—	1,046	1,046	0.04	0.01	0.15	1,051
% Reduced	—	—	—	—	—	—	62%	47%	—	52%	16%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.10	0.09	0.74	0.86	< 0.005	0.03	0.10	0.13	0.03	0.01	0.04	—	173	173	0.01	< 0.005	0.03	174
Mit.	0.10	0.09	0.74	0.86	< 0.005	0.03	0.04	0.07	0.03	0.01	0.03	—	173	173	0.01	< 0.005	0.03	174

% Reduced	—	—	—	—	—	—	62%	47%	—	52%	16%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.92	3.31	27.5	32.6	0.06	1.21	3.71	4.92	1.11	0.47	1.58	—	7,103	7,103	0.29	0.08	2.15	7,136
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.57	0.48	4.05	4.73	0.01	0.17	0.53	0.70	0.16	0.07	0.23	—	1,046	1,046	0.04	0.01	0.15	1,051
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.10	0.09	0.74	0.86	< 0.005	0.03	0.10	0.13	0.03	0.01	0.04	—	173	173	0.01	< 0.005	0.03	174

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.92	3.31	27.5	32.6	0.06	1.21	1.36	2.56	1.11	0.21	1.32	—	7,103	7,103	0.29	0.08	2.15	7,136
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.57	0.48	4.05	4.73	0.01	0.17	0.20	0.37	0.16	0.03	0.19	—	1,046	1,046	0.04	0.01	0.15	1,051

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.10	0.09	0.74	0.86	< 0.005	0.03	0.04	0.07	0.03	0.01	0.03	—	173	173	0.01	< 0.005	0.03	174

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	3.39	3.49	< 0.005	0.21	—	0.21	0.19	—	0.19	—	490	490	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.40	9.40	< 0.005	< 0.005	—	9.44
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.32	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	236	236	0.01	0.01	0.85	240
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.12	4.12	< 0.005	< 0.005	0.01	4.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Linear, Grubbing & Land Clearing (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	3.39	3.49	< 0.005	0.21	—	0.21	0.19	—	0.19	—	490	490	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.40	9.40	< 0.005	< 0.005	—	9.44
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.32	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	236	236	0.01	0.01	0.85	240
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.12	4.12	< 0.005	< 0.005	0.01	4.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Linear, Grading & Excavation (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.71	3.11	27.3	29.4	0.06	1.21	—	1.21	1.11	—	1.11	—	6,496	6,496	0.26	0.05	—	6,518
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	0.34	0.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.39	2.58	0.01	0.11	—	0.11	0.10	—	0.10	—	569	569	0.02	< 0.005	—	571
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.44	0.47	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.3	94.3	< 0.005	< 0.005	—	94.6

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.20	0.18	3.20	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	573	573	0.02	0.02	2.06	582
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.8	32.8	< 0.005	< 0.005	0.09	34.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.8	45.8	< 0.005	< 0.005	0.08	46.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.88	2.88	< 0.005	< 0.005	< 0.005	3.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.58	7.58	< 0.005	< 0.005	0.01	7.68
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Linear, Grading & Excavation (2025) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.71	3.11	27.3	29.4	0.06	1.21	—	1.21	1.11	—	1.11	—	6,496	6,496	0.26	0.05	—	6,518
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.39	2.58	0.01	0.11	—	0.11	0.10	—	0.10	—	569	569	0.02	< 0.005	—	571
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.44	0.47	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.3	94.3	< 0.005	< 0.005	—	94.6
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.20	0.18	3.20	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	573	573	0.02	0.02	2.06	582
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.8	32.8	< 0.005	< 0.005	0.09	34.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.8	45.8	< 0.005	< 0.005	0.08	46.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.88	2.88	< 0.005	< 0.005	< 0.005	3.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.58	7.58	< 0.005	< 0.005	0.01	7.68
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Linear, Drainage, Utilities, & Sub-Grade (2025) - Unmitigated

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

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

Off-Road Equipment	2.99	2.51	22.9	23.6	0.05	0.91	—	0.91	0.84	—	0.84	—	5,694	5,694	0.23	0.05	—	5,713
Dust From Material Movement	—	—	—	—	—	—	2.65	2.65	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.32	1.36	< 0.005	0.05	—	0.05	0.05	—	0.05	—	328	328	0.01	< 0.005	—	329
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.2	54.2	< 0.005	< 0.005	—	54.4
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.16	2.83	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	506	506	0.02	0.02	1.81	513
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.5	26.5	< 0.005	< 0.005	0.05	26.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.39	4.39	< 0.005	< 0.005	0.01	4.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Linear, Drainage, Utilities, & Sub-Grade (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.99	2.51	22.9	23.6	0.05	0.91	—	0.91	0.84	—	0.84	—	5,694	5,694	0.23	0.05	—	5,713

Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.32	1.36	< 0.005	0.05	—	0.05	0.05	—	0.05	—	328	328	0.01	< 0.005	—	329
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.2	54.2	< 0.005	< 0.005	—	54.4
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.16	2.83	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	506	506	0.02	0.02	1.81	513

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.5	26.5	< 0.005	< 0.005	0.05	26.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.39	4.39	< 0.005	< 0.005	0.01	4.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Linear, Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.06	0.89	7.71	10.8	0.01	0.34	—	0.34	0.31	—	0.31	—	1,620	1,620	0.07	0.01	—	1,625
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.8	48.8	< 0.005	< 0.005	—	49.0
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.08	8.08	< 0.005	< 0.005	—	8.11
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.12	2.26	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	405	405	0.02	0.01	1.45	411
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.02	11.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.84	1.84	< 0.005	< 0.005	< 0.005	1.86
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Linear, Paving (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.06	0.89	7.71	10.8	0.01	0.34	—	0.34	0.31	—	0.31	—	1,620	1,620	0.07	0.01	—	1,625
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.8	48.8	< 0.005	< 0.005	—	49.0
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.08	8.08	< 0.005	< 0.005	—	8.11
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.15	0.14	0.12	2.26	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	405	405	0.02	0.01	1.45	411
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.02	11.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.84	1.84	< 0.005	< 0.005	< 0.005	1.86
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	6/2/2025	6/11/2025	5.00	7.00	—
Linear, Grading & Excavation	Linear, Grading & Excavation	6/12/2025	7/26/2025	5.00	32.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	7/27/2025	8/25/2025	5.00	21.0	—
Linear, Paving	Linear, Paving	8/26/2025	9/10/2025	5.00	11.0	—

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
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	5.00	8.00	6.00	0.82
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

Linear, Grading & Excavation	Signal Boards	Electric	Average	5.00	8.00	6.00	0.82
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	5.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Linear, Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Signal Boards	Electric	Average	5.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

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

Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	5.00	8.00	6.00	0.82
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Grading & Excavation	Signal Boards	Electric	Average	5.00	8.00	6.00	0.82
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	5.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43

Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Linear, Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Signal Boards	Electric	Average	5.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	17.5	17.3	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	10.6	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	42.5	17.3	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	1.00	10.6	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—

Linear, Drainage, Utilities, & Sub-Grade	Worker	37.5	17.3	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	10.6	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	30.0	17.3	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.6	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	17.5	17.3	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	10.6	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	42.5	17.3	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	1.00	10.6	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	37.5	17.3	LDA,LDT1,LDT2

Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	10.6	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	30.0	17.3	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.6	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grubbing & Land Clearing	—	—	6.67	0.00	—
Linear, Grading & Excavation	—	—	6.67	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	6.67	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	6.67	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	587	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Malibu Vineyards_1-P1 Custom Report

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5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P1
Construction Start Date	3/19/2048
Operational Year	2050
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	647	1000sqft	36.8	646,800	611,350	0.00	—	Phase 1 - Parcel 1

Parking Lot	556	Space	5.00	0.00	0.00	0.00	—	Standard Parking
Parking Lot	348	Space	3.13	0.00	0.00	0.00	—	Truck Parking (174 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	94.0	94.0	11.6	21.1	0.06	0.35	19.9	20.2	0.32	10.2	10.5	—	7,398	7,398	0.27	0.35	0.48	7,504
Mit.	94.0	94.0	11.6	21.1	0.06	0.35	5.32	5.67	0.32	2.68	3.00	—	7,398	7,398	0.27	0.35	0.48	7,504
% Reduced	—	—	—	—	—	—	73%	72%	—	74%	71%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.17	1.83	11.6	18.4	0.05	0.35	19.9	20.2	0.32	10.2	10.5	—	7,052	7,052	0.22	0.35	0.01	7,160
Mit.	2.17	1.83	11.6	18.4	0.05	0.35	5.32	5.67	0.32	2.68	3.00	—	7,052	7,052	0.22	0.35	0.01	7,160

% Reduced	—	—	—	—	—	—	73%	72%	—	74%	71%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.79	8.76	6.42	13.5	0.03	0.11	3.80	3.91	0.10	1.37	1.47	—	5,095	5,095	0.09	0.25	0.12	5,172
Mit.	8.79	8.76	6.42	13.5	0.03	0.11	3.01	3.11	0.10	0.73	0.82	—	5,095	5,095	0.09	0.25	0.12	5,172
% Reduced	—	—	—	—	—	—	21%	21%	—	46%	44%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.60	1.60	1.17	2.46	0.01	0.02	0.69	0.71	0.02	0.25	0.27	—	843	843	0.02	0.04	0.02	856
Mit.	1.60	1.60	1.17	2.46	0.01	0.02	0.55	0.57	0.02	0.13	0.15	—	843	843	0.02	0.04	0.02	856
% Reduced	—	—	—	—	—	—	21%	21%	—	46%	44%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2048	2.22	1.87	11.6	21.1	0.06	0.35	19.9	20.2	0.32	10.2	10.5	—	7,398	7,398	0.27	0.35	0.48	7,504
2049	1.34	1.17	8.88	21.1	0.05	0.13	4.26	4.40	0.12	1.04	1.16	—	7,383	7,383	0.12	0.35	0.40	7,489
2050	94.0	94.0	4.90	10.1	0.01	0.06	0.66	0.67	0.06	0.16	0.16	—	1,670	1,670	0.06	0.01	0.06	1,676
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2048	2.17	1.83	11.6	18.4	0.05	0.35	19.9	20.2	0.32	10.2	10.5	—	7,052	7,052	0.22	0.35	0.01	7,160
2049	1.33	1.16	9.06	18.3	0.05	0.13	4.26	4.40	0.12	1.04	1.16	—	7,037	7,037	0.13	0.35	0.01	7,145
2050	1.33	1.16	9.03	18.3	0.05	0.13	4.26	4.40	0.12	1.04	1.16	—	7,025	7,025	0.13	0.35	0.01	7,133

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2048	0.90	0.77	5.39	10.7	0.03	0.11	3.80	3.91	0.10	1.37	1.47	—	3,895	3,895	0.09	0.15	0.08	3,940
2049	0.94	0.82	6.42	13.5	0.03	0.10	3.01	3.11	0.09	0.73	0.82	—	5,095	5,095	0.09	0.25	0.12	5,172
2050	8.79	8.76	1.74	3.69	0.01	0.02	0.65	0.68	0.02	0.16	0.18	—	1,185	1,185	0.02	0.05	0.02	1,200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2048	0.16	0.14	0.98	1.96	0.01	0.02	0.69	0.71	0.02	0.25	0.27	—	645	645	0.02	0.02	0.01	652
2049	0.17	0.15	1.17	2.46	0.01	0.02	0.55	0.57	0.02	0.13	0.15	—	843	843	0.01	0.04	0.02	856
2050	1.60	1.60	0.32	0.67	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	196	196	< 0.005	0.01	< 0.005	199

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2048	2.22	1.87	11.6	21.1	0.06	0.35	5.32	5.67	0.32	2.68	3.00	—	7,398	7,398	0.27	0.35	0.48	7,504
2049	1.34	1.17	8.88	21.1	0.05	0.13	4.26	4.40	0.12	1.04	1.16	—	7,383	7,383	0.12	0.35	0.40	7,489
2050	94.0	94.0	4.90	10.1	0.01	0.06	0.66	0.67	0.06	0.16	0.16	—	1,670	1,670	0.06	0.01	0.06	1,676
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2048	2.17	1.83	11.6	18.4	0.05	0.35	5.32	5.67	0.32	2.68	3.00	—	7,052	7,052	0.22	0.35	0.01	7,160
2049	1.33	1.16	9.06	18.3	0.05	0.13	4.26	4.40	0.12	1.04	1.16	—	7,037	7,037	0.13	0.35	0.01	7,145
2050	1.33	1.16	9.03	18.3	0.05	0.13	4.26	4.40	0.12	1.04	1.16	—	7,025	7,025	0.13	0.35	0.01	7,133
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2048	0.90	0.77	5.39	10.7	0.03	0.11	2.23	2.34	0.10	0.66	0.76	—	3,895	3,895	0.09	0.15	0.08	3,940
2049	0.94	0.82	6.42	13.5	0.03	0.10	3.01	3.11	0.09	0.73	0.82	—	5,095	5,095	0.09	0.25	0.12	5,172
2050	8.79	8.76	1.74	3.69	0.01	0.02	0.65	0.68	0.02	0.16	0.18	—	1,185	1,185	0.02	0.05	0.02	1,200

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2048	0.16	0.14	0.98	1.96	0.01	0.02	0.41	0.43	0.02	0.12	0.14	—	645	645	0.02	0.02	0.01	652
2049	0.17	0.15	1.17	2.46	0.01	0.02	0.55	0.57	0.02	0.13	0.15	—	843	843	0.01	0.04	0.02	856
2050	1.60	1.60	0.32	0.67	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	196	196	< 0.005	0.01	< 0.005	199

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.49	6.84	23.7	58.3	0.27	0.54	17.2	17.8	0.51	4.47	4.97	614	33,477	34,092	63.1	3.87	3.94	36,827
Mit.	7.49	6.84	23.7	58.3	0.27	0.54	17.2	17.8	0.51	4.47	4.97	614	33,477	34,092	63.1	3.87	3.94	36,827
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.41	2.15	25.3	21.8	0.26	0.49	17.2	17.7	0.47	4.47	4.93	614	32,373	32,987	63.1	3.89	0.10	35,726
Mit.	2.41	2.15	25.3	21.8	0.26	0.49	17.2	17.7	0.47	4.47	4.93	614	32,373	32,987	63.1	3.89	0.10	35,726
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.90	4.45	24.7	37.4	0.27	0.51	17.0	17.6	0.49	4.42	4.91	614	32,701	33,315	63.1	3.88	1.70	36,052
Mit.	4.90	4.45	24.7	37.4	0.27	0.51	17.0	17.6	0.49	4.42	4.91	614	32,701	33,315	63.1	3.88	1.70	36,052
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.89	0.81	4.51	6.83	0.05	0.09	3.11	3.20	0.09	0.81	0.90	102	5,414	5,516	10.5	0.64	0.28	5,969

Mit.	0.89	0.81	4.51	6.83	0.05	0.09	3.11	3.20	0.09	0.81	0.90	102	5,414	5,516	10.5	0.64	0.28	5,969
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.50	1.29	22.5	29.3	0.27	0.42	17.2	17.6	0.40	4.47	4.86	—	27,858	27,858	0.18	3.08	3.94	28,785
Area	5.89	5.50	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	7.49	6.84	23.7	58.3	0.27	0.54	17.2	17.8	0.51	4.47	4.97	614	33,477	34,092	63.1	3.87	3.94	36,827
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.43	1.22	24.3	21.0	0.26	0.42	17.2	17.6	0.40	4.47	4.86	—	26,869	26,869	0.19	3.11	0.10	27,799
Area	0.88	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	2.41	2.15	25.3	21.8	0.26	0.49	17.2	17.7	0.47	4.47	4.93	614	32,373	32,987	63.1	3.89	0.10	35,726
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.24	23.7	22.8	0.26	0.42	17.0	17.5	0.40	4.42	4.82	—	27,140	27,140	0.18	3.09	1.70	28,068
Area	3.35	3.16	0.12	13.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	57.0	57.0	< 0.005	< 0.005	—	57.3
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204

Water	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	4.90	4.45	24.7	37.4	0.27	0.51	17.0	17.6	0.49	4.42	4.91	614	32,701	33,315	63.1	3.88	1.70	36,052
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.26	0.23	4.32	4.16	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,493	4,493	0.03	0.51	0.28	4,647
Area	0.61	0.58	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	855	855	0.12	0.01	—	862
Water	—	—	—	—	—	—	—	—	—	—	—	47.5	56.7	104	4.87	0.12	—	261
Waste	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Total	0.89	0.81	4.51	6.83	0.05	0.09	3.11	3.20	0.09	0.81	0.90	102	5,414	5,516	10.5	0.64	0.28	5,969

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.50	1.29	22.5	29.3	0.27	0.42	17.2	17.6	0.40	4.47	4.86	—	27,858	27,858	0.18	3.08	3.94	28,785
Area	5.89	5.50	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	7.49	6.84	23.7	58.3	0.27	0.54	17.2	17.8	0.51	4.47	4.97	614	33,477	34,092	63.1	3.87	3.94	36,827
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.43	1.22	24.3	21.0	0.26	0.42	17.2	17.6	0.40	4.47	4.86	—	26,869	26,869	0.19	3.11	0.10	27,799
Area	0.88	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204

Water	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	2.41	2.15	25.3	21.8	0.26	0.49	17.2	17.7	0.47	4.47	4.93	614	32,373	32,987	63.1	3.89	0.10	35,726
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.24	23.7	22.8	0.26	0.42	17.0	17.5	0.40	4.42	4.82	—	27,140	27,140	0.18	3.09	1.70	28,068
Area	3.35	3.16	0.12	13.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	57.0	57.0	< 0.005	< 0.005	—	57.3
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	4.90	4.45	24.7	37.4	0.27	0.51	17.0	17.6	0.49	4.42	4.91	614	32,701	33,315	63.1	3.88	1.70	36,052
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.26	0.23	4.32	4.16	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,493	4,493	0.03	0.51	0.28	4,647
Area	0.61	0.58	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	855	855	0.12	0.01	—	862
Water	—	—	—	—	—	—	—	—	—	—	—	47.5	56.7	104	4.87	0.12	—	261
Waste	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Total	0.89	0.81	4.51	6.83	0.05	0.09	3.11	3.20	0.09	0.81	0.90	102	5,414	5,516	10.5	0.64	0.28	5,969

3. Construction Emissions Details

3.1. Site Preparation (2048) - Unmitigated

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

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

Off-Road	2.15	1.80	11.6	16.7	0.05	0.35	—	0.35	0.32	—	0.32	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.15	1.80	11.6	16.7	0.05	0.35	—	0.35	0.32	—	0.32	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.57	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	—	261	261	0.01	< 0.005	—	262
Dust From Material Movement	—	—	—	—	—	—	0.97	0.97	—	0.50	0.50	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.2	43.2	< 0.005	< 0.005	—	43.4

Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.53	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	187	187	< 0.005	< 0.005	0.03	187
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.36	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	164	164	< 0.005	< 0.005	< 0.005	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.40	8.40	< 0.005	< 0.005	< 0.005	8.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.39
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2048) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.15	1.80	11.6	16.7	0.05	0.35	—	0.35	0.32	—	0.32	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.15	1.80	11.6	16.7	0.05	0.35	—	0.35	0.32	—	0.32	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.57	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	—	261	261	0.01	< 0.005	—	262
Dust From Material Movement	—	—	—	—	—	—	0.25	0.25	—	0.13	0.13	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.2	43.2	< 0.005	< 0.005	—	43.4
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.53	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	187	187	< 0.005	< 0.005	0.03	187
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.36	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	164	164	< 0.005	< 0.005	< 0.005	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.40	8.40	< 0.005	< 0.005	< 0.005	8.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.39

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2048) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.20	1.84	10.5	20.1	0.06	0.32	—	0.32	0.30	—	0.30	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	1.32	2.53	0.01	0.04	—	0.04	0.04	—	0.04	—	831	831	0.03	0.01	—	834
Dust From Material Movement	—	—	—	—	—	—	1.16	1.16	—	0.46	0.46	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.24	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	138
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.61	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	213	213	< 0.005	< 0.005	0.03	214
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.5	24.5	< 0.005	< 0.005	< 0.005	24.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.06	4.06	< 0.005	< 0.005	< 0.005	4.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2048) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.20	1.84	10.5	20.1	0.06	0.32	—	0.32	0.30	—	0.30	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	1.32	2.53	0.01	0.04	—	0.04	0.04	—	0.04	—	831	831	0.03	0.01	—	834
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.12	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.24	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	138

Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.61	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	213	213	< 0.005	< 0.005	0.03	214
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.5	24.5	< 0.005	< 0.005	< 0.005	24.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.06	4.06	< 0.005	< 0.005	< 0.005	4.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2048) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.26	12.0	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.26	12.0	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.29	2.43	4.63	0.01	0.04	—	0.04	0.04	—	0.04	—	929	929	0.04	0.01	—	932
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.44	0.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	154	154	0.01	< 0.005	—	154
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.36	0.35	0.30	8.29	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,897	2,897	0.02	0.01	0.40	2,901
Vendor	0.09	0.07	2.35	0.86	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,104	2,104	0.01	0.31	0.08	2,198
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.34	0.32	5.52	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,548	2,548	0.02	0.02	0.01	2,554
Vendor	0.08	0.07	2.55	0.89	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,107	2,107	0.01	0.31	< 0.005	2,201
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.12	2.34	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,025	1,025	0.01	0.01	0.07	1,027
Vendor	0.03	0.03	0.95	0.34	0.01	0.01	0.36	0.37	0.01	0.10	0.11	—	816	816	< 0.005	0.12	0.01	852
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.43	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	170	170	< 0.005	< 0.005	0.01	170
Vendor	0.01	< 0.005	0.17	0.06	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	135	135	< 0.005	0.02	< 0.005	141
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2048) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.26	12.0	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.26	12.0	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.29	2.43	4.63	0.01	0.04	—	0.04	0.04	—	0.04	—	929	929	0.04	0.01	—	932
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.44	0.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	154	154	0.01	< 0.005	—	154
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.36	0.35	0.30	8.29	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,897	2,897	0.02	0.01	0.40	2,901
Vendor	0.09	0.07	2.35	0.86	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,104	2,104	0.01	0.31	0.08	2,198
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.35	0.34	0.32	5.52	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,548	2,548	0.02	0.02	0.01	2,554
Vendor	0.08	0.07	2.55	0.89	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,107	2,107	0.01	0.31	< 0.005	2,201
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.12	2.34	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,025	1,025	0.01	0.01	0.07	1,027
Vendor	0.03	0.03	0.95	0.34	0.01	0.01	0.36	0.37	0.01	0.10	0.11	—	816	816	< 0.005	0.12	0.01	852
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.43	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	170	170	< 0.005	< 0.005	0.01	170
Vendor	0.01	< 0.005	0.17	0.06	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	135	135	< 0.005	0.02	< 0.005	141
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2049) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.76	6.22	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.90	0.76	6.22	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.54	4.45	8.53	0.02	0.08	—	0.08	0.07	—	0.07	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.81	1.56	< 0.005	0.01	—	0.01	0.01	—	0.01	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.35	0.30	8.28	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,893	2,893	0.02	0.01	0.34	2,897
Vendor	0.09	0.07	2.35	0.86	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,093	2,093	0.01	0.31	0.05	2,187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.34	0.32	5.52	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,544	2,544	0.02	0.02	0.01	2,550
Vendor	0.08	0.07	2.52	0.88	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,096	2,096	0.01	0.31	< 0.005	2,190
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.24	0.22	4.31	0.00	0.00	2.34	2.34	0.00	0.55	0.55	—	1,887	1,887	0.01	0.01	0.11	1,891
Vendor	0.06	0.05	1.75	0.62	0.02	0.02	0.67	0.68	0.02	0.18	0.20	—	1,496	1,496	0.01	0.22	0.02	1,563
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.79	0.00	0.00	0.43	0.43	0.00	0.10	0.10	—	312	312	< 0.005	< 0.005	0.02	313
Vendor	0.01	0.01	0.32	0.11	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	248	248	< 0.005	0.04	< 0.005	259
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2049) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.76	6.22	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.76	6.22	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.54	4.45	8.53	0.02	0.08	—	0.08	0.07	—	0.07	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.81	1.56	< 0.005	0.01	—	0.01	0.01	—	0.01	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.35	0.30	8.28	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,893	2,893	0.02	0.01	0.34	2,897
Vendor	0.09	0.07	2.35	0.86	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,093	2,093	0.01	0.31	0.05	2,187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.34	0.32	5.52	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,544	2,544	0.02	0.02	0.01	2,550
Vendor	0.08	0.07	2.52	0.88	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,096	2,096	0.01	0.31	< 0.005	2,190
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.24	0.22	4.31	0.00	0.00	2.34	2.34	0.00	0.55	0.55	—	1,887	1,887	0.01	0.01	0.11	1,891
Vendor	0.06	0.05	1.75	0.62	0.02	0.02	0.67	0.68	0.02	0.18	0.20	—	1,496	1,496	0.01	0.22	0.02	1,563
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.04	0.04	0.79	0.00	0.00	0.43	0.43	0.00	0.10	0.10	—	312	312	< 0.005	< 0.005	0.02	313
Vendor	0.01	0.01	0.32	0.11	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	248	248	< 0.005	0.04	< 0.005	259
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2050) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.75	6.19	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.85	1.64	< 0.005	0.01	—	0.01	0.01	—	0.01	—	328	328	0.01	< 0.005	—	329
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.4	54.4	< 0.005	< 0.005	—	54.5

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.34	0.32	5.51	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,542	2,542	0.02	0.02	0.01	2,547
Vendor	0.08	0.07	2.52	0.88	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,086	2,086	0.01	0.31	< 0.005	2,180
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.83	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	361	361	< 0.005	< 0.005	0.02	362
Vendor	0.01	0.01	0.34	0.12	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	286	286	< 0.005	0.04	< 0.005	298
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	59.8	59.8	< 0.005	< 0.005	< 0.005	60.0
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	47.3	47.3	< 0.005	0.01	< 0.005	49.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2050) - Mitigated

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

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

Off-Roa Equipment	0.90	0.75	6.19	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.10	0.85	1.64	< 0.005	0.01	—	0.01	0.01	—	0.01	—	328	328	0.01	< 0.005	—	329
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.15	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.4	54.4	< 0.005	< 0.005	—	54.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.34	0.32	5.51	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,542	2,542	0.02	0.02	0.01	2,547
Vendor	0.08	0.07	2.52	0.88	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,086	2,086	0.01	0.31	< 0.005	2,180
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.83	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	361	361	< 0.005	< 0.005	0.02	362
Vendor	0.01	0.01	0.34	0.12	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	286	286	< 0.005	0.04	< 0.005	298
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	59.8	59.8	< 0.005	< 0.005	< 0.005	60.0
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	47.3	47.3	< 0.005	0.01	< 0.005	49.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2050) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	4.88	9.68	0.01	0.06	—	0.06	0.06	—	0.06	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	4.88	9.68	0.01	0.06	—	0.06	0.06	—	0.06	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.05	0.04	0.44	0.88	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	137
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.46	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	160	160	< 0.005	< 0.005	0.02	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.02	0.02	0.30	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	140	140	< 0.005	< 0.005	< 0.005	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.18	2.18	< 0.005	< 0.005	< 0.005	2.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2050) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	4.88	9.68	0.01	0.06	—	0.06	0.06	—	0.06	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	4.88	9.68	0.01	0.06	—	0.06	0.06	—	0.06	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.05	0.04	0.44	0.88	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	137
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.46	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	160	160	< 0.005	< 0.005	0.02	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.02	0.02	0.30	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	140	140	< 0.005	< 0.005	< 0.005	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.18	2.18	< 0.005	< 0.005	< 0.005	2.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2050) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	93.9	93.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.1	12.1	< 0.005	< 0.005	—	12.1
Architectural Coatings	8.49	8.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.00	2.00	< 0.005	< 0.005	—	2.01
Architectural Coatings	1.55	1.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.66	0.00	0.00	0.66	0.66	0.00	0.16	0.16	—	578	578	< 0.005	< 0.005	0.06	579
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	47.7	47.7	< 0.005	< 0.005	< 0.005	47.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.90	7.90	< 0.005	< 0.005	< 0.005	7.92
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2050) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	93.9	93.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.1	12.1	< 0.005	< 0.005	—	12.1
Architectural Coatings	8.49	8.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.00	2.00	< 0.005	< 0.005	—	2.01
Architectural Coatings	1.55	1.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.66	0.00	0.00	0.66	0.66	0.00	0.16	0.16	—	578	578	< 0.005	< 0.005	0.06	579
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	47.7	47.7	< 0.005	< 0.005	< 0.005	47.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.90	7.90	< 0.005	< 0.005	< 0.005	7.92
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.50	1.29	22.5	29.3	0.27	0.42	17.2	17.6	0.40	4.47	4.86	—	27,858	27,858	0.18	3.08	3.94	28,785
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	0.00
Total	1.50	1.29	22.5	29.3	0.27	0.42	17.2	17.6	0.40	4.47	4.86	—	27,858	27,858	0.18	3.08	3.94	28,785
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.43	1.22	24.3	21.0	0.26	0.42	17.2	17.6	0.40	4.47	4.86	—	26,869	26,869	0.19	3.11	0.10	27,799
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	0.00
Total	1.43	1.22	24.3	21.0	0.26	0.42	17.2	17.6	0.40	4.47	4.86	—	26,869	26,869	0.19	3.11	0.10	27,799
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.26	0.23	4.32	4.16	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,493	4,493	0.03	0.51	0.28	4,647
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	0.00

Total	0.26	0.23	4.32	4.16	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,493	4,493	0.03	0.51	0.28	4,647

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.50	1.29	22.5	29.3	0.27	0.42	17.2	17.6	0.40	4.47	4.86	—	27,858	27,858	0.18	3.08	3.94	28,785
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	0.00
Total	1.50	1.29	22.5	29.3	0.27	0.42	17.2	17.6	0.40	4.47	4.86	—	27,858	27,858	0.18	3.08	3.94	28,785
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.43	1.22	24.3	21.0	0.26	0.42	17.2	17.6	0.40	4.47	4.86	—	26,869	26,869	0.19	3.11	0.10	27,799
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	0.00
Total	1.43	1.22	24.3	21.0	0.26	0.42	17.2	17.6	0.40	4.47	4.86	—	26,869	26,869	0.19	3.11	0.10	27,799
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.26	0.23	4.32	4.16	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,493	4,493	0.03	0.51	0.28	4,647
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	0.00

Total	0.26	0.23	4.32	4.16	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,493	4,493	0.03	0.51	0.28	4,647

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,882	3,882	0.63	0.08	—	3,920
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,056	4,056	0.66	0.08	—	4,096
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,882	3,882	0.63	0.08	—	3,920
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,056	4,056	0.66	0.08	—	4,096
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	643	643	0.10	0.01	—	649
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	28.7	28.7	< 0.005	< 0.005	—	29.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	671	671	0.11	0.01	—	678

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,882	3,882	0.63	0.08	—	3,920
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,056	4,056	0.66	0.08	—	4,096
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,882	3,882	0.63	0.08	—	3,920
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,056	4,056	0.66	0.08	—	4,096
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	643	643	0.10	0.01	—	649
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	28.7	28.7	< 0.005	< 0.005	—	29.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	671	671	0.11	0.01	—	678

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
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
Total	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
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
Total	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	184
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
Total	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	184

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
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
Total	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
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
Total	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Wareho Rail	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	184
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
Total	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	184

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.85	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.01	4.62	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Total	5.89	5.50	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	0.85	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.88	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.45	0.42	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48
Total	0.61	0.58	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.85	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.01	4.62	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116

Total	5.89	5.50	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.85	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.88	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.45	0.42	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48
Total	0.61	0.58	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	47.5	56.7	104	4.87	0.12	—	261
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	47.5	56.7	104	4.87	0.12	—	261

4.4.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	287	343	629	29.4	0.70	—	1,576
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	47.5	56.7	104	4.87	0.12	—	261
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	47.5	56.7	104	4.87	0.12	—	261

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	3/19/2048	4/13/2048	5.00	18.0	—
Grading	Grading	4/14/2048	6/16/2048	5.00	46.0	—
Building Construction	Building Construction	6/17/2048	3/11/2050	5.00	453	—
Paving	Paving	3/14/2050	4/27/2050	5.00	33.0	—
Architectural Coating	Architectural Coating	4/28/2050	6/13/2050	5.00	33.0	—

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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Grading	Tractors/Loaders/Back	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	272	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	106	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	54.3	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	272	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	106	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	54.3	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	970,200	323,400	21,264

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)

Site Preparation	—	—	27.0	0.00	—
Grading	—	—	138	0.00	—
Paving	0.00	0.00	0.00	0.00	8.14

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	5.00	100%
Parking Lot	3.13	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2048	0.00	204	0.03	< 0.005
2049	0.00	204	0.03	< 0.005
2050	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	983	983	983	358,845	22,609	22,609	22,609	8,252,396
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Unrefrigerated Warehouse-No Rail	983	983	983	358,845	22,609	22,609	22,609	8,252,396
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	970,200	323,400	21,264

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)
Unrefrigerated Warehouse-No Rail	6,946,513	204	0.0330	0.0040	3,450,129
Parking Lot	190,945	204	0.0330	0.0040	0.00
Parking Lot	119,513	204	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)
Unrefrigerated Warehouse-No Rail	6,946,513	204	0.0330	0.0040	3,450,129
Parking Lot	190,945	204	0.0330	0.0040	0.00
Parking Lot	119,513	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	149,572,500	9,970,913
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Unrefrigerated Warehouse-No Rail	149,572,500	9,970,913
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	608	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	608	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P2 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P2
Construction Start Date	12/25/2045
Operational Year	2048
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	647	1000sqft	30.8	646,800	342,487	0.00	—	Phase 1 - Parcel 2

Parking Lot	556	Space	5.00	0.00	0.00	0.00	—	Standard Parking
Parking Lot	348	Space	3.13	0.00	0.00	0.00	—	Truck Parking (174 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.38	1.21	9.07	21.3	0.05	0.14	4.26	4.41	0.13	1.04	1.17	—	7,438	7,438	0.12	0.38	0.71	7,554
Mit.	1.38	1.21	9.07	21.3	0.05	0.14	4.26	4.41	0.13	1.04	1.17	—	7,438	7,438	0.12	0.38	0.71	7,554
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	94.0	94.0	13.3	21.1	0.06	0.42	19.9	20.3	0.39	10.2	10.5	—	7,091	7,091	0.27	0.38	0.02	7,206
Mit.	94.0	94.0	13.3	21.1	0.06	0.42	5.32	5.74	0.39	2.68	3.06	—	7,091	7,091	0.27	0.38	0.02	7,206

% Reduced	—	—	—	—	—	—	73%	72%	—	74%	71%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.57	8.57	6.90	13.9	0.04	0.14	4.19	4.33	0.13	1.38	1.50	—	5,032	5,032	0.11	0.26	0.17	5,100
Mit.	8.57	8.57	6.90	13.9	0.04	0.14	2.90	3.00	0.13	0.79	0.91	—	5,032	5,032	0.11	0.26	0.17	5,100
% Reduced	—	—	—	—	—	—	31%	31%	—	43%	39%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.56	1.56	1.26	2.54	0.01	0.02	0.77	0.79	0.02	0.25	0.27	—	833	833	0.02	0.04	0.03	844
Mit.	1.56	1.56	1.26	2.54	0.01	0.02	0.53	0.55	0.02	0.14	0.17	—	833	833	0.02	0.04	0.03	844
% Reduced	—	—	—	—	—	—	31%	31%	—	43%	39%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2046	1.38	1.21	9.07	21.3	0.05	0.14	4.26	4.41	0.13	1.04	1.17	—	7,438	7,438	0.12	0.38	0.71	7,554
2047	1.36	1.19	9.02	21.2	0.05	0.14	4.26	4.40	0.13	1.04	1.17	—	7,416	7,416	0.12	0.37	0.58	7,530
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2045	2.30	1.94	13.3	18.3	0.05	0.42	19.9	20.3	0.39	10.2	10.5	—	5,461	5,461	0.22	0.04	< 0.005	5,479
2046	2.28	1.92	12.1	21.1	0.06	0.36	19.9	20.2	0.34	10.2	10.5	—	7,091	7,091	0.27	0.38	0.02	7,206
2047	1.34	1.17	9.20	18.5	0.05	0.14	4.26	4.40	0.13	1.04	1.17	—	7,070	7,070	0.13	0.38	0.02	7,185
2048	94.0	94.0	4.93	9.99	0.01	0.07	0.66	0.67	0.06	0.16	0.16	—	1,651	1,651	0.06	0.01	< 0.005	1,657

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2045	0.03	0.03	0.18	0.25	< 0.005	0.01	0.27	0.28	0.01	0.14	0.14	—	74.9	74.9	< 0.005	< 0.005	< 0.005	75.1
2046	1.11	0.96	6.90	13.9	0.04	0.14	4.19	4.33	0.13	1.38	1.50	—	5,032	5,032	0.11	0.22	0.17	5,100
2047	0.96	0.83	6.41	13.3	0.03	0.10	2.90	3.00	0.09	0.71	0.80	—	4,967	4,967	0.09	0.26	0.17	5,046
2048	8.57	8.57	0.37	0.82	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	160	160	< 0.005	< 0.005	< 0.005	161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2045	0.01	< 0.005	0.03	0.05	< 0.005	< 0.005	0.05	0.05	< 0.005	0.03	0.03	—	12.4	12.4	< 0.005	< 0.005	< 0.005	12.4
2046	0.20	0.18	1.26	2.54	0.01	0.02	0.77	0.79	0.02	0.25	0.27	—	833	833	0.02	0.04	0.03	844
2047	0.17	0.15	1.17	2.43	0.01	0.02	0.53	0.55	0.02	0.13	0.15	—	822	822	0.01	0.04	0.03	836
2048	1.56	1.56	0.07	0.15	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.6	26.6	< 0.005	< 0.005	< 0.005	26.6

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2046	1.38	1.21	9.07	21.3	0.05	0.14	4.26	4.41	0.13	1.04	1.17	—	7,438	7,438	0.12	0.38	0.71	7,554
2047	1.36	1.19	9.02	21.2	0.05	0.14	4.26	4.40	0.13	1.04	1.17	—	7,416	7,416	0.12	0.37	0.58	7,530
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2045	2.30	1.94	13.3	18.3	0.05	0.42	5.32	5.74	0.39	2.68	3.06	—	5,461	5,461	0.22	0.04	< 0.005	5,479
2046	2.28	1.92	12.1	21.1	0.06	0.36	5.32	5.69	0.34	2.68	3.01	—	7,091	7,091	0.27	0.38	0.02	7,206
2047	1.34	1.17	9.20	18.5	0.05	0.14	4.26	4.40	0.13	1.04	1.17	—	7,070	7,070	0.13	0.38	0.02	7,185
2048	94.0	94.0	4.93	9.99	0.01	0.07	0.66	0.67	0.06	0.16	0.16	—	1,651	1,651	0.06	0.01	< 0.005	1,657
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2045	0.03	0.03	0.18	0.25	< 0.005	0.01	0.07	0.08	0.01	0.04	0.04	—	74.9	74.9	< 0.005	< 0.005	< 0.005	75.1

2046	1.11	0.96	6.90	13.9	0.04	0.14	2.85	2.99	0.13	0.79	0.91	—	5,032	5,032	0.11	0.22	0.17	5,100
2047	0.96	0.83	6.41	13.3	0.03	0.10	2.90	3.00	0.09	0.71	0.80	—	4,967	4,967	0.09	0.26	0.17	5,046
2048	8.57	8.57	0.37	0.82	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	160	160	< 0.005	< 0.005	< 0.005	161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2045	0.01	< 0.005	0.03	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	0.01	0.01	—	12.4	12.4	< 0.005	< 0.005	< 0.005	12.4
2046	0.20	0.18	1.26	2.54	0.01	0.02	0.52	0.55	0.02	0.14	0.17	—	833	833	0.02	0.04	0.03	844
2047	0.17	0.15	1.17	2.43	0.01	0.02	0.53	0.55	0.02	0.13	0.15	—	822	822	0.01	0.04	0.03	836
2048	1.56	1.56	0.07	0.15	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.6	26.6	< 0.005	< 0.005	< 0.005	26.6

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.52	6.86	23.8	58.4	0.27	0.54	17.2	17.8	0.51	4.47	4.97	614	33,572	34,186	63.1	3.88	5.26	36,926
Mit.	7.52	6.86	23.8	58.4	0.27	0.54	17.2	17.8	0.51	4.47	4.97	614	33,572	34,186	63.1	3.88	5.26	36,926
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.43	2.16	25.3	21.9	0.26	0.49	17.2	17.7	0.47	4.47	4.94	614	32,465	33,080	63.1	3.90	0.14	35,821
Mit.	2.43	2.16	25.3	21.9	0.26	0.49	17.2	17.7	0.47	4.47	4.94	614	32,465	33,080	63.1	3.90	0.14	35,821
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.92	4.46	24.8	37.5	0.27	0.51	17.0	17.6	0.49	4.42	4.91	614	32,794	33,408	63.1	3.89	2.27	36,148
Mit.	4.92	4.46	24.8	37.5	0.27	0.51	17.0	17.6	0.49	4.42	4.91	614	32,794	33,408	63.1	3.89	2.27	36,148

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.90	0.81	4.53	6.85	0.05	0.09	3.11	3.20	0.09	0.81	0.90	102	5,429	5,531	10.5	0.64	0.38	5,985
Mit.	0.90	0.81	4.53	6.85	0.05	0.09	3.11	3.20	0.09	0.81	0.90	102	5,429	5,531	10.5	0.64	0.38	5,985
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.53	1.31	22.6	29.5	0.27	0.42	17.2	17.6	0.40	4.47	4.87	—	27,958	27,958	0.18	3.09	5.26	28,890
Area	5.89	5.50	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	7.52	6.86	23.8	58.4	0.27	0.54	17.2	17.8	0.51	4.47	4.97	614	33,572	34,186	63.1	3.88	5.26	36,926
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.24	24.4	21.1	0.26	0.42	17.2	17.6	0.40	4.47	4.87	—	26,967	26,967	0.19	3.12	0.14	27,901
Area	0.88	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	2.43	2.16	25.3	21.9	0.26	0.49	17.2	17.7	0.47	4.47	4.94	614	32,465	33,080	63.1	3.90	0.14	35,821

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.47	1.25	23.8	22.9	0.26	0.42	17.0	17.5	0.40	4.42	4.82	—	27,238	27,238	0.19	3.10	2.27	28,171
Area	3.35	3.16	0.12	13.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	57.0	57.0	< 0.005	< 0.005	—	57.3
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	4.92	4.46	24.8	37.5	0.27	0.51	17.0	17.6	0.49	4.42	4.91	614	32,794	33,408	63.1	3.89	2.27	36,148
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.27	0.23	4.34	4.17	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,510	4,510	0.03	0.51	0.38	4,664
Area	0.61	0.58	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	855	855	0.12	0.01	—	862
Water	—	—	—	—	—	—	—	—	—	—	—	47.5	55.8	103	4.87	0.12	—	260
Waste	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Total	0.90	0.81	4.53	6.85	0.05	0.09	3.11	3.20	0.09	0.81	0.90	102	5,429	5,531	10.5	0.64	0.38	5,985

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.53	1.31	22.6	29.5	0.27	0.42	17.2	17.6	0.40	4.47	4.87	—	27,958	27,958	0.18	3.09	5.26	28,890
Area	5.89	5.50	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	7.52	6.86	23.8	58.4	0.27	0.54	17.2	17.8	0.51	4.47	4.97	614	33,572	34,186	63.1	3.88	5.26	36,926

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.24	24.4	21.1	0.26	0.42	17.2	17.6	0.40	4.47	4.87	—	26,967	26,967	0.19	3.12	0.14	27,901
Area	0.88	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	2.43	2.16	25.3	21.9	0.26	0.49	17.2	17.7	0.47	4.47	4.94	614	32,465	33,080	63.1	3.90	0.14	35,821
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.47	1.25	23.8	22.9	0.26	0.42	17.0	17.5	0.40	4.42	4.82	—	27,238	27,238	0.19	3.10	2.27	28,171
Area	3.35	3.16	0.12	13.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	57.0	57.0	< 0.005	< 0.005	—	57.3
Energy	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	5,161	5,161	0.75	0.08	—	5,204
Water	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Waste	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Total	4.92	4.46	24.8	37.5	0.27	0.51	17.0	17.6	0.49	4.42	4.91	614	32,794	33,408	63.1	3.89	2.27	36,148
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.27	0.23	4.34	4.17	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,510	4,510	0.03	0.51	0.38	4,664
Area	0.61	0.58	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	855	855	0.12	0.01	—	862
Water	—	—	—	—	—	—	—	—	—	—	—	47.5	55.8	103	4.87	0.12	—	260
Waste	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Total	0.90	0.81	4.53	6.85	0.05	0.09	3.11	3.20	0.09	0.81	0.90	102	5,429	5,531	10.5	0.64	0.38	5,985

3. Construction Emissions Details

3.1. Site Preparation (2045) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.28	1.92	13.3	17.9	0.05	0.42	—	0.42	0.39	—	0.39	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.18	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.36	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	165	165	< 0.005	< 0.005	< 0.005	166
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.35	2.35	< 0.005	< 0.005	< 0.005	2.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.39
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2045) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.28	1.92	13.3	17.9	0.05	0.42	—	0.42	0.39	—	0.39	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.18	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.36	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	165	165	< 0.005	< 0.005	< 0.005	166
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.35	2.35	< 0.005	< 0.005	< 0.005	2.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.39
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2046) - Unmitigated

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

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

Off-Roa Equipment	2.18	1.83	12.1	17.5	0.05	0.36	—	0.36	0.34	—	0.34	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.07	0.06	0.40	0.58	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.01	< 0.005	—	177
Dust From Material Movement	—	—	—	—	—	—	0.65	0.65	—	0.34	0.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.01	0.01	0.07	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.2	29.2	< 0.005	< 0.005	—	29.3
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.36	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	165	165	< 0.005	< 0.005	< 0.005	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.69	5.69	< 0.005	< 0.005	< 0.005	5.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.94	0.94	< 0.005	< 0.005	< 0.005	0.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2046) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.83	12.1	17.5	0.05	0.36	—	0.36	0.34	—	0.34	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.40	0.58	< 0.005	0.01	—	0.01	0.01	—	0.01	—	176	176	0.01	< 0.005	—	177
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.2	29.2	< 0.005	< 0.005	—	29.3
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.36	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	165	165	< 0.005	< 0.005	< 0.005	165

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.69	5.69	< 0.005	< 0.005	< 0.005	5.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.94	0.94	< 0.005	< 0.005	< 0.005	0.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2046) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.25	1.89	11.1	20.7	0.06	0.35	—	0.35	0.32	—	0.32	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	1.39	2.61	0.01	0.04	—	0.04	0.04	—	0.04	—	831	831	0.03	0.01	—	834
Dust From Material Movement	—	—	—	—	—	—	1.16	1.16	—	0.46	0.46	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.25	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	138
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.41	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	188	188	< 0.005	< 0.005	< 0.005	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.6	24.6	< 0.005	< 0.005	< 0.005	24.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.08	4.08	< 0.005	< 0.005	< 0.005	4.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2046) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.25	1.89	11.1	20.7	0.06	0.35	—	0.35	0.32	—	0.32	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	1.39	2.61	0.01	0.04	—	0.04	0.04	—	0.04	—	831	831	0.03	0.01	—	834

Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.12	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.25	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	138
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.41	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	188	188	< 0.005	< 0.005	< 0.005	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.6	24.6	< 0.005	< 0.005	< 0.005	24.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.08	4.08	< 0.005	< 0.005	< 0.005	4.09

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2046) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.38	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.38	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.43	3.55	6.73	0.01	0.07	—	0.07	0.06	—	0.06	—	1,332	1,332	0.05	0.01	—	1,337
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.09	0.08	0.65	1.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	221	221	0.01	< 0.005	—	221
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.37	0.30	8.30	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,908	2,908	0.02	0.02	0.57	2,914
Vendor	0.09	0.07	2.39	0.86	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,133	2,133	0.01	0.34	0.14	2,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.35	0.32	5.54	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,558	2,558	0.02	0.02	0.01	2,564
Vendor	0.08	0.07	2.56	0.89	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,136	2,136	0.01	0.34	< 0.005	2,237
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.19	0.17	3.42	0.00	0.00	1.82	1.82	0.00	0.43	0.43	—	1,476	1,476	0.01	0.01	0.14	1,479
Vendor	0.05	0.04	1.38	0.48	0.01	0.01	0.52	0.53	0.01	0.14	0.16	—	1,186	1,186	0.01	0.19	0.03	1,243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.62	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	244	244	< 0.005	< 0.005	0.02	245
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	196	196	< 0.005	0.03	0.01	206
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2046) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.38	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.38	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.43	3.55	6.73	0.01	0.07	—	0.07	0.06	—	0.06	—	1,332	1,332	0.05	0.01	—	1,337
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.65	1.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	221	221	0.01	< 0.005	—	221
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.37	0.37	0.30	8.30	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,908	2,908	0.02	0.02	0.57	2,914
Vendor	0.09	0.07	2.39	0.86	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,133	2,133	0.01	0.34	0.14	2,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.35	0.32	5.54	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,558	2,558	0.02	0.02	0.01	2,564
Vendor	0.08	0.07	2.56	0.89	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,136	2,136	0.01	0.34	< 0.005	2,237
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.19	0.17	3.42	0.00	0.00	1.82	1.82	0.00	0.43	0.43	—	1,476	1,476	0.01	0.01	0.14	1,479
Vendor	0.05	0.04	1.38	0.48	0.01	0.01	0.52	0.53	0.01	0.14	0.16	—	1,186	1,186	0.01	0.19	0.03	1,243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.62	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	244	244	< 0.005	< 0.005	0.02	245
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	196	196	< 0.005	0.03	0.01	206
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2047) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.33	12.1	0.02	0.11	—	0.11	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.33	12.1	0.02	0.11	—	0.11	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.52	4.35	8.30	0.02	0.08	—	0.08	0.07	—	0.07	—	1,646	1,646	0.07	0.01	—	1,652
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.79	1.52	< 0.005	0.01	—	0.01	0.01	—	0.01	—	273	273	0.01	< 0.005	—	274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.36	0.30	8.29	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,902	2,902	0.02	0.01	0.48	2,906
Vendor	0.09	0.07	2.38	0.86	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,117	2,117	0.01	0.34	0.10	2,219
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.35	0.34	0.32	5.53	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,552	2,552	0.02	0.02	0.01	2,558
Vendor	0.08	0.07	2.55	0.89	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,121	2,121	0.01	0.34	< 0.005	2,222
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.23	0.21	4.15	0.00	0.00	2.25	2.25	0.00	0.53	0.53	—	1,820	1,820	0.01	0.01	0.14	1,824
Vendor	0.06	0.05	1.71	0.60	0.02	0.02	0.64	0.66	0.02	0.18	0.19	—	1,455	1,455	0.01	0.23	0.03	1,525
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.76	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	301	301	< 0.005	< 0.005	0.02	302
Vendor	0.01	0.01	0.31	0.11	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	241	241	< 0.005	0.04	0.01	252
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2047) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.33	12.1	0.02	0.11	—	0.11	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.91	0.76	6.33	12.1	0.02	0.11	—	0.11	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.52	4.35	8.30	0.02	0.08	—	0.08	0.07	—	0.07	—	1,646	1,646	0.07	0.01	—	1,652
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.79	1.52	< 0.005	0.01	—	0.01	0.01	—	0.01	—	273	273	0.01	< 0.005	—	274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.36	0.30	8.29	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,902	2,902	0.02	0.01	0.48	2,906
Vendor	0.09	0.07	2.38	0.86	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,117	2,117	0.01	0.34	0.10	2,219
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.34	0.32	5.53	0.00	0.00	3.32	3.32	0.00	0.78	0.78	—	2,552	2,552	0.02	0.02	0.01	2,558
Vendor	0.08	0.07	2.55	0.89	0.02	0.02	0.94	0.97	0.02	0.26	0.29	—	2,121	2,121	0.01	0.34	< 0.005	2,222
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.23	0.21	4.15	0.00	0.00	2.25	2.25	0.00	0.53	0.53	—	1,820	1,820	0.01	0.01	0.14	1,824
Vendor	0.06	0.05	1.71	0.60	0.02	0.02	0.64	0.66	0.02	0.18	0.19	—	1,455	1,455	0.01	0.23	0.03	1,525
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.76	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	301	301	< 0.005	< 0.005	0.02	302
Vendor	0.01	0.01	0.31	0.11	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	241	241	< 0.005	0.04	0.01	252
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2047) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.44	5.00	9.71	0.01	0.07	—	0.07	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.14	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.4	41.4	< 0.005	< 0.005	—	41.5

Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.88
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.31	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	141	141	< 0.005	< 0.005	< 0.005	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.01	4.01	< 0.005	< 0.005	< 0.005	4.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2047) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.44	5.00	9.71	0.01	0.07	—	0.07	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.14	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.4	41.4	< 0.005	< 0.005	—	41.5
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.88
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.31	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	141	141	< 0.005	< 0.005	< 0.005	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.01	4.01	< 0.005	< 0.005	< 0.005	4.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2048) - Unmitigated

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

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

Off-Road Equipment	0.51	0.43	4.91	9.68	0.01	0.07	—	0.07	0.06	—	0.06	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.30	0.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	91.6	91.6	< 0.005	< 0.005	—	92.0
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.05	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.2
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.30	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	141	141	< 0.005	< 0.005	< 0.005	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.86	8.86	< 0.005	< 0.005	< 0.005	8.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.47	1.47	< 0.005	< 0.005	< 0.005	1.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2048) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.43	4.91	9.68	0.01	0.07	—	0.07	0.06	—	0.06	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.30	0.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	91.6	91.6	< 0.005	< 0.005	—	92.0

Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.05	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.2
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.30	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	141	141	< 0.005	< 0.005	< 0.005	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.86	8.86	< 0.005	< 0.005	< 0.005	8.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.47	1.47	< 0.005	< 0.005	< 0.005	1.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2048) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	93.9	93.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.1	12.1	< 0.005	< 0.005	—	12.1
Architectural Coatings	8.49	8.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.00	2.00	< 0.005	< 0.005	—	2.01

Architectural	1.55	1.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.10	0.00	0.00	0.66	0.66	0.00	0.16	0.16	—	510	510	< 0.005	< 0.005	< 0.005	511
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	47.8	47.8	< 0.005	< 0.005	< 0.005	47.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.92	7.92	< 0.005	< 0.005	< 0.005	7.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2048) - Mitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	93.9	93.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.1	12.1	< 0.005	< 0.005	—	12.1
Architectural Coatings	8.49	8.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.00	2.00	< 0.005	< 0.005	—	2.01
Architectural Coatings	1.55	1.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.10	0.00	0.00	0.66	0.66	0.00	0.16	0.16	—	510	510	< 0.005	< 0.005	< 0.005	511
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	47.8	47.8	< 0.005	< 0.005	< 0.005	47.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.92	7.92	< 0.005	< 0.005	< 0.005	7.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Unrefrigerated Wareho Rail	1.53	1.31	22.6	29.5	0.27	0.42	17.2	17.6	0.40	4.47	4.87	—	27,958	27,958	0.18	3.09	5.26	28,890
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	0.00
Total	1.53	1.31	22.6	29.5	0.27	0.42	17.2	17.6	0.40	4.47	4.87	—	27,958	27,958	0.18	3.09	5.26	28,890
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.45	1.24	24.4	21.1	0.26	0.42	17.2	17.6	0.40	4.47	4.87	—	26,967	26,967	0.19	3.12	0.14	27,901
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	0.00
Total	1.45	1.24	24.4	21.1	0.26	0.42	17.2	17.6	0.40	4.47	4.87	—	26,967	26,967	0.19	3.12	0.14	27,901
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.27	0.23	4.34	4.17	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,510	4,510	0.03	0.51	0.38	4,664
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	0.00
Total	0.27	0.23	4.34	4.17	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,510	4,510	0.03	0.51	0.38	4,664

4.1.2. Mitigated

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

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

Unrefrig Warehouse-No Rail	1.53	1.31	22.6	29.5	0.27	0.42	17.2	17.6	0.40	4.47	4.87	—	27,958	27,958	0.18	3.09	5.26	28,890
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	0.00
Total	1.53	1.31	22.6	29.5	0.27	0.42	17.2	17.6	0.40	4.47	4.87	—	27,958	27,958	0.18	3.09	5.26	28,890
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.45	1.24	24.4	21.1	0.26	0.42	17.2	17.6	0.40	4.47	4.87	—	26,967	26,967	0.19	3.12	0.14	27,901
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	0.00
Total	1.45	1.24	24.4	21.1	0.26	0.42	17.2	17.6	0.40	4.47	4.87	—	26,967	26,967	0.19	3.12	0.14	27,901
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.27	0.23	4.34	4.17	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,510	4,510	0.03	0.51	0.38	4,664
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	0.00
Total	0.27	0.23	4.34	4.17	0.05	0.08	3.11	3.19	0.07	0.81	0.88	—	4,510	4,510	0.03	0.51	0.38	4,664

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,882	3,882	0.63	0.08	—	3,920
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,056	4,056	0.66	0.08	—	4,096
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,882	3,882	0.63	0.08	—	3,920
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,056	4,056	0.66	0.08	—	4,096
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	643	643	0.10	0.01	—	649
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	28.7	28.7	< 0.005	< 0.005	—	29.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	671	671	0.11	0.01	—	678

4.2.2. Electricity Emissions By Land Use - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,882	3,882	0.63	0.08	—	3,920
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,056	4,056	0.66	0.08	—	4,096
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,882	3,882	0.63	0.08	—	3,920
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,056	4,056	0.66	0.08	—	4,096
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	643	643	0.10	0.01	—	649
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	28.7	28.7	< 0.005	< 0.005	—	29.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	671	671	0.11	0.01	—	678

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
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
Total	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
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
Total	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	184
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
Total	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	184

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
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
Total	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
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
Total	0.10	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,106	1,106	0.10	< 0.005	—	1,109
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	184
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
Total	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	184

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.85	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.01	4.62	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Total	5.89	5.50	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.85	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.88	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.45	0.42	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48
Total	0.61	0.58	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.85	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.01	4.62	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Total	5.89	5.50	0.24	28.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.85	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.88	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.45	0.42	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48
Total	0.61	0.58	0.02	2.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.44	9.44	< 0.005	< 0.005	—	9.48

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	47.5	55.8	103	4.87	0.12	—	260
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	47.5	55.8	103	4.87	0.12	—	260

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	287	337	623	29.4	0.70	—	1,570
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	47.5	55.8	103	4.87	0.12	—	260
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	47.5	55.8	103	4.87	0.12	—	260

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	0.00	328	32.7	0.00	—	1,146
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.2	0.00	54.2	5.42	0.00	—	190

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	12/25/2045	1/17/2046	5.00	18.0	—
Grading	Grading	1/18/2046	3/22/2046	5.00	46.0	—
Building Construction	Building Construction	3/23/2046	12/17/2047	5.00	453	—
Paving	Paving	12/18/2047	1/31/2048	5.00	33.0	—
Architectural Coating	Architectural Coating	2/3/2048	3/18/2048	5.00	33.0	—

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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	272	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	106	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	54.3	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	272	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	106	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	54.3	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	970,200	323,400	21,264

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	27.0	0.00	—
Grading	—	—	138	0.00	—
Paving	0.00	0.00	0.00	0.00	8.14

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	5.00	100%
Parking Lot	3.13	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2045	0.00	204	0.03	< 0.005
2046	0.00	204	0.03	< 0.005
2047	0.00	204	0.03	< 0.005
2048	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	983	983	983	358,845	22,609	22,609	22,609	8,252,396
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Unrefrigerated Warehouse-No Rail	983	983	983	358,845	22,609	22,609	22,609	8,252,396

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	970,200	323,400	21,264

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)
Unrefrigerated Warehouse-No Rail	6,946,513	204	0.0330	0.0040	3,450,129
Parking Lot	190,945	204	0.0330	0.0040	0.00
Parking Lot	119,513	204	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)
Unrefrigerated Warehouse-No Rail	6,946,513	204	0.0330	0.0040	3,450,129
Parking Lot	190,945	204	0.0330	0.0040	0.00
Parking Lot	119,513	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	149,572,500	5,585,848
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	149,572,500	5,585,848
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	608	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	608	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P3 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P3
Construction Start Date	4/27/2043
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	772	1000sqft	36.4	771,600	500,158	0.00	—	Phase 1 - Parcel 3

Parking Lot	486	Space	4.37	0.00	0.00	0.00	—	Standard Parking
Parking Lot	848	Space	7.63	0.00	0.00	0.00	—	Truck Parking (424 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.42	2.04	14.5	23.5	0.06	0.48	19.9	20.4	0.44	10.2	10.6	—	8,521	8,521	0.27	0.44	1.58	8,658
Mit.	2.42	2.04	14.5	23.5	0.06	0.48	5.32	5.81	0.44	2.68	3.12	—	8,521	8,521	0.27	0.44	1.58	8,658
% Reduced	—	—	—	—	—	—	73%	71%	—	74%	71%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	95.7	95.6	10.1	20.1	0.05	0.16	5.09	5.24	0.15	1.24	1.39	—	8,103	8,103	0.14	0.44	0.04	8,239
Mit.	95.7	95.6	10.1	20.1	0.05	0.16	5.09	5.24	0.15	1.24	1.39	—	8,103	8,103	0.14	0.44	0.04	8,239

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.1	11.0	7.06	14.8	0.04	0.14	3.97	4.11	0.13	1.49	1.61	—	5,856	5,856	0.09	0.32	0.40	5,954
Mit.	11.1	11.0	7.06	14.8	0.04	0.14	3.60	3.71	0.13	0.88	0.98	—	5,856	5,856	0.09	0.32	0.40	5,954
% Reduced	—	—	—	—	—	—	9%	10%	—	41%	39%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.02	2.00	1.29	2.70	0.01	0.02	0.73	0.75	0.02	0.27	0.29	—	970	970	0.02	0.05	0.07	986
Mit.	2.02	2.00	1.29	2.70	0.01	0.02	0.66	0.68	0.02	0.16	0.18	—	970	970	0.02	0.05	0.07	986
% Reduced	—	—	—	—	—	—	9%	10%	—	41%	39%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2043	2.42	2.04	14.5	23.5	0.06	0.48	19.9	20.4	0.44	10.2	10.6	—	8,521	8,521	0.27	0.44	1.58	8,658
2044	1.48	1.31	9.73	23.3	0.05	0.15	5.09	5.24	0.14	1.24	1.38	—	8,478	8,478	0.13	0.44	1.29	8,615
2045	1.48	1.30	9.63	23.2	0.05	0.15	5.09	5.23	0.14	1.24	1.38	—	8,442	8,442	0.13	0.44	1.05	8,579
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2043	1.48	1.30	10.1	20.1	0.05	0.16	5.09	5.24	0.15	1.24	1.39	—	8,103	8,103	0.14	0.44	0.04	8,239
2044	1.46	1.29	9.98	20.1	0.05	0.15	5.09	5.24	0.14	1.24	1.38	—	8,062	8,062	0.14	0.44	0.03	8,198
2045	95.7	95.6	9.88	19.9	0.05	0.15	5.09	5.23	0.14	1.24	1.38	—	8,027	8,027	0.14	0.44	0.03	8,162

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2043	0.92	0.79	5.49	10.3	0.03	0.14	3.97	4.11	0.13	1.49	1.61	—	3,638	3,638	0.09	0.14	0.20	3,681
2044	1.05	0.92	7.06	14.8	0.04	0.11	3.60	3.71	0.10	0.88	0.98	—	5,856	5,856	0.09	0.32	0.40	5,954
2045	11.1	11.0	5.38	11.3	0.03	0.08	2.54	2.62	0.08	0.62	0.69	—	4,210	4,210	0.07	0.22	0.23	4,277
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2043	0.17	0.14	1.00	1.87	< 0.005	0.02	0.73	0.75	0.02	0.27	0.29	—	602	602	0.01	0.02	0.03	609
2044	0.19	0.17	1.29	2.70	0.01	0.02	0.66	0.68	0.02	0.16	0.18	—	970	970	0.02	0.05	0.07	986
2045	2.02	2.00	0.98	2.07	< 0.005	0.01	0.46	0.48	0.01	0.11	0.13	—	697	697	0.01	0.04	0.04	708

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2043	2.42	2.04	14.5	23.5	0.06	0.48	5.32	5.81	0.44	2.68	3.12	—	8,521	8,521	0.27	0.44	1.58	8,658
2044	1.48	1.31	9.73	23.3	0.05	0.15	5.09	5.24	0.14	1.24	1.38	—	8,478	8,478	0.13	0.44	1.29	8,615
2045	1.48	1.30	9.63	23.2	0.05	0.15	5.09	5.23	0.14	1.24	1.38	—	8,442	8,442	0.13	0.44	1.05	8,579
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2043	1.48	1.30	10.1	20.1	0.05	0.16	5.09	5.24	0.15	1.24	1.39	—	8,103	8,103	0.14	0.44	0.04	8,239
2044	1.46	1.29	9.98	20.1	0.05	0.15	5.09	5.24	0.14	1.24	1.38	—	8,062	8,062	0.14	0.44	0.03	8,198
2045	95.7	95.6	9.88	19.9	0.05	0.15	5.09	5.23	0.14	1.24	1.38	—	8,027	8,027	0.14	0.44	0.03	8,162
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2043	0.92	0.79	5.49	10.3	0.03	0.14	2.11	2.25	0.13	0.65	0.77	—	3,638	3,638	0.09	0.14	0.20	3,681
2044	1.05	0.92	7.06	14.8	0.04	0.11	3.60	3.71	0.10	0.88	0.98	—	5,856	5,856	0.09	0.32	0.40	5,954
2045	11.1	11.0	5.38	11.3	0.03	0.08	2.54	2.62	0.08	0.62	0.69	—	4,210	4,210	0.07	0.22	0.23	4,277

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2043	0.17	0.14	1.00	1.87	< 0.005	0.02	0.39	0.41	0.02	0.12	0.14	—	602	602	0.01	0.02	0.03	609
2044	0.19	0.17	1.29	2.70	0.01	0.02	0.66	0.68	0.02	0.16	0.18	—	970	970	0.02	0.05	0.07	986
2045	2.02	2.00	0.98	2.07	< 0.005	0.01	0.46	0.48	0.01	0.11	0.13	—	697	697	0.01	0.04	0.04	708

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.05	8.26	28.6	70.1	0.33	0.65	20.6	21.2	0.61	5.33	5.94	733	40,375	41,107	75.3	4.66	9.65	44,390
Mit.	9.05	8.26	28.6	70.1	0.33	0.65	20.6	21.2	0.61	5.33	5.94	733	40,375	41,107	75.3	4.66	9.65	44,390
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.98	2.65	30.5	26.5	0.32	0.59	20.6	21.1	0.56	5.33	5.89	733	39,047	39,780	75.3	4.69	0.25	43,061
Mit.	2.98	2.65	30.5	26.5	0.32	0.59	20.6	21.1	0.56	5.33	5.89	733	39,047	39,780	75.3	4.69	0.25	43,061
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.95	5.39	29.9	45.2	0.32	0.62	20.3	21.0	0.59	5.28	5.86	733	39,441	40,174	75.3	4.68	4.17	43,455
Mit.	5.95	5.39	29.9	45.2	0.32	0.62	20.3	21.0	0.59	5.28	5.86	733	39,441	40,174	75.3	4.68	4.17	43,455
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.09	0.98	5.46	8.24	0.06	0.11	3.71	3.82	0.11	0.96	1.07	121	6,530	6,651	12.5	0.77	0.69	7,194

Mit.	1.09	0.98	5.46	8.24	0.06	0.11	3.71	3.82	0.11	0.96	1.07	121	6,530	6,651	12.5	0.77	0.69	7,194
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.89	1.62	27.3	35.6	0.32	0.50	20.6	21.1	0.48	5.33	5.81	—	33,626	33,626	0.23	3.72	9.65	34,752
Area	7.04	6.58	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,206	6,206	0.91	0.10	—	6,258
Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	9.05	8.26	28.6	70.1	0.33	0.65	20.6	21.2	0.61	5.33	5.94	733	40,375	41,107	75.3	4.66	9.65	44,390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.79	1.53	29.4	25.6	0.31	0.50	20.6	21.1	0.48	5.33	5.81	—	32,437	32,437	0.24	3.75	0.25	33,561
Area	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,206	6,206	0.91	0.10	—	6,258
Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	2.98	2.65	30.5	26.5	0.32	0.59	20.6	21.1	0.56	5.33	5.89	733	39,047	39,780	75.3	4.69	0.25	43,061
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.82	1.55	28.6	27.7	0.31	0.50	20.3	20.8	0.48	5.28	5.76	—	32,763	32,763	0.24	3.74	4.17	33,886
Area	4.01	3.78	0.14	16.5	< 0.005	0.03	—	0.03	0.02	—	0.02	—	68.1	68.1	< 0.005	< 0.005	—	68.3
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,206	6,206	0.91	0.10	—	6,258

Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	5.95	5.39	29.9	45.2	0.32	0.62	20.3	21.0	0.59	5.28	5.86	733	39,441	40,174	75.3	4.68	4.17	43,455
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.33	0.28	5.23	5.05	0.06	0.09	3.71	3.80	0.09	0.96	1.05	—	5,424	5,424	0.04	0.62	0.69	5,610
Area	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Energy	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,028	1,028	0.15	0.02	—	1,036
Water	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310
Waste	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Total	1.09	0.98	5.46	8.24	0.06	0.11	3.71	3.82	0.11	0.96	1.07	121	6,530	6,651	12.5	0.77	0.69	7,194

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.89	1.62	27.3	35.6	0.32	0.50	20.6	21.1	0.48	5.33	5.81	—	33,626	33,626	0.23	3.72	9.65	34,752
Area	7.04	6.58	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,206	6,206	0.91	0.10	—	6,258
Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	9.05	8.26	28.6	70.1	0.33	0.65	20.6	21.2	0.61	5.33	5.94	733	40,375	41,107	75.3	4.66	9.65	44,390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.79	1.53	29.4	25.6	0.31	0.50	20.6	21.1	0.48	5.33	5.81	—	32,437	32,437	0.24	3.75	0.25	33,561
Area	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,206	6,206	0.91	0.10	—	6,258

Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	2.98	2.65	30.5	26.5	0.32	0.59	20.6	21.1	0.56	5.33	5.89	733	39,047	39,780	75.3	4.69	0.25	43,061
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.82	1.55	28.6	27.7	0.31	0.50	20.3	20.8	0.48	5.28	5.76	—	32,763	32,763	0.24	3.74	4.17	33,886
Area	4.01	3.78	0.14	16.5	< 0.005	0.03	—	0.03	0.02	—	0.02	—	68.1	68.1	< 0.005	< 0.005	—	68.3
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,206	6,206	0.91	0.10	—	6,258
Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	5.95	5.39	29.9	45.2	0.32	0.62	20.3	21.0	0.59	5.28	5.86	733	39,441	40,174	75.3	4.68	4.17	43,455
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.33	0.28	5.23	5.05	0.06	0.09	3.71	3.80	0.09	0.96	1.05	—	5,424	5,424	0.04	0.62	0.69	5,610
Area	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Energy	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,028	1,028	0.15	0.02	—	1,036
Water	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310
Waste	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Total	1.09	0.98	5.46	8.24	0.06	0.11	3.71	3.82	0.11	0.96	1.07	121	6,530	6,651	12.5	0.77	0.69	7,194

3. Construction Emissions Details

3.1. Site Preparation (2043) - Unmitigated

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

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

Off-Road	2.39	2.01	14.5	18.6	0.05	0.48	—	0.48	0.44	—	0.44	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.83	1.07	< 0.005	0.03	—	0.03	0.03	—	0.03	—	305	305	0.01	< 0.005	—	306
Dust From Material Movement	—	—	—	—	—	—	1.13	1.13	—	0.58	0.58	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.15	0.20	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	50.4	50.4	< 0.005	< 0.005	—	50.6
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.55	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	189	189	< 0.005	< 0.005	0.06	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	< 0.005	9.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2043) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.39	2.01	14.5	18.6	0.05	0.48	—	0.48	0.44	—	0.44	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.83	1.07	< 0.005	0.03	—	0.03	0.03	—	0.03	—	305	305	0.01	< 0.005	—	306
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.15	0.20	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	50.4	50.4	< 0.005	< 0.005	—	50.6
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.55	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	189	189	< 0.005	< 0.005	0.06	189

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	< 0.005	9.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2043) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	12.4	21.6	0.06	0.42	—	0.42	0.38	—	0.38	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	1.87	3.25	0.01	0.06	—	0.06	0.06	—	0.06	—	994	994	0.04	0.01	—	997
Dust From Material Movement	—	—	—	—	—	—	1.39	1.39	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.34	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	165	165	0.01	< 0.005	—	165
Dust From Material Movement	—	—	—	—	—	—	0.25	0.25	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.63	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	216	216	< 0.005	< 0.005	0.07	217
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.07	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	29.7	29.7	< 0.005	< 0.005	< 0.005	29.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.92	4.92	< 0.005	< 0.005	< 0.005	4.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2043) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	12.4	21.6	0.06	0.42	—	0.42	0.38	—	0.38	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.36	0.30	1.87	3.25	0.01	0.06	—	0.06	0.06	—	0.06	—	994	994	0.04	0.01	—	997
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.34	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	165	165	0.01	< 0.005	—	165
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.63	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	216	216	< 0.005	< 0.005	0.07	217
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.07	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	29.7	29.7	< 0.005	< 0.005	< 0.005	29.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.92	4.92	< 0.005	< 0.005	< 0.005	4.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2043) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.83	3.43	0.01	0.04	—	0.04	0.03	—	0.03	—	671	671	0.03	0.01	—	673
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.33	0.63	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	< 0.005	< 0.005	—	111
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.36	10.2	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,500	3,500	0.02	0.02	1.16	3,508
Vendor	0.10	0.09	2.92	1.05	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,624	2,624	0.01	0.40	0.42	2,745
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.44	0.38	6.79	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,078	3,078	0.03	0.02	0.03	3,085
Vendor	0.09	0.08	3.12	1.09	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,628	2,628	0.01	0.40	0.01	2,748
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.10	2.10	0.00	0.00	1.10	1.10	0.00	0.26	0.26	—	894	894	0.01	0.01	0.14	896
Vendor	0.03	0.02	0.85	0.30	0.01	0.01	0.31	0.32	0.01	0.09	0.09	—	735	735	< 0.005	0.11	0.05	769
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.38	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	148	148	< 0.005	< 0.005	0.02	148
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	122	122	< 0.005	0.02	0.01	127
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2043) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.83	3.43	0.01	0.04	—	0.04	0.03	—	0.03	—	671	671	0.03	0.01	—	673
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.33	0.63	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	< 0.005	< 0.005	—	111
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.36	10.2	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,500	3,500	0.02	0.02	1.16	3,508
Vendor	0.10	0.09	2.92	1.05	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,624	2,624	0.01	0.40	0.42	2,745
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.44	0.38	6.79	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,078	3,078	0.03	0.02	0.03	3,085
Vendor	0.09	0.08	3.12	1.09	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,628	2,628	0.01	0.40	0.01	2,748
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.10	2.10	0.00	0.00	1.10	1.10	0.00	0.26	0.26	—	894	894	0.01	0.01	0.14	896
Vendor	0.03	0.02	0.85	0.30	0.01	0.01	0.31	0.32	0.01	0.09	0.09	—	735	735	< 0.005	0.11	0.05	769
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.38	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	148	148	< 0.005	< 0.005	0.02	148
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	122	122	< 0.005	0.02	0.01	127
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2044) - Unmitigated

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

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

Off-Road	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.56	4.64	8.76	0.02	0.09	—	0.09	0.08	—	0.08	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.85	1.60	< 0.005	0.02	—	0.02	0.01	—	0.01	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.44	0.36	10.0	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,488	3,488	0.02	0.02	0.97	3,496
Vendor	0.10	0.09	2.88	1.06	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,593	2,593	0.01	0.40	0.32	2,714
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.43	0.38	6.77	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,068	3,068	0.03	0.02	0.03	3,075
Vendor	0.09	0.08	3.12	1.09	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,597	2,597	0.01	0.40	0.01	2,718
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.31	0.26	5.28	0.00	0.00	2.80	2.80	0.00	0.66	0.66	—	2,281	2,281	0.02	0.02	0.30	2,286
Vendor	0.07	0.06	2.15	0.76	0.02	0.02	0.80	0.82	0.02	0.22	0.24	—	1,859	1,859	0.01	0.29	0.10	1,945
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.96	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	378	378	< 0.005	< 0.005	0.05	379
Vendor	0.01	0.01	0.39	0.14	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	308	308	< 0.005	0.05	0.02	322
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2044) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.67	0.56	4.64	8.76	0.02	0.09	—	0.09	0.08	—	0.08	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.10	0.85	1.60	< 0.005	0.02	—	0.02	0.01	—	0.01	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.44	0.36	10.0	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,488	3,488	0.02	0.02	0.97	3,496
Vendor	0.10	0.09	2.88	1.06	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,593	2,593	0.01	0.40	0.32	2,714
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.43	0.38	6.77	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,068	3,068	0.03	0.02	0.03	3,075
Vendor	0.09	0.08	3.12	1.09	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,597	2,597	0.01	0.40	0.01	2,718
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.31	0.31	0.26	5.28	0.00	0.00	2.80	2.80	0.00	0.66	0.66	—	2,281	2,281	0.02	0.02	0.30	2,286
Vendor	0.07	0.06	2.15	0.76	0.02	0.02	0.80	0.82	0.02	0.22	0.24	—	1,859	1,859	0.01	0.29	0.10	1,945
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.96	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	378	378	< 0.005	< 0.005	0.05	379
Vendor	0.01	0.01	0.39	0.14	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	308	308	< 0.005	0.05	0.02	322
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2045) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.45	0.37	3.12	5.90	0.01	0.06	—	0.06	0.05	—	0.05	—	1,163	1,163	0.05	0.01	—	1,167
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.57	1.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	193	193	0.01	< 0.005	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.44	0.36	10.0	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,478	3,478	0.02	0.02	0.81	3,486
Vendor	0.10	0.09	2.85	1.05	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,567	2,567	0.01	0.40	0.24	2,688
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.42	0.38	6.62	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,059	3,059	0.03	0.02	0.02	3,066
Vendor	0.09	0.08	3.08	1.09	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,571	2,571	0.01	0.40	0.01	2,691
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.20	0.18	3.57	0.00	0.00	1.90	1.90	0.00	0.45	0.45	—	1,541	1,541	0.01	0.01	0.17	1,545
Vendor	0.05	0.04	1.46	0.52	0.01	0.01	0.54	0.55	0.01	0.15	0.16	—	1,247	1,247	0.01	0.20	0.05	1,305
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.65	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	255	255	< 0.005	< 0.005	0.03	256
Vendor	0.01	0.01	0.27	0.09	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	206	206	< 0.005	0.03	0.01	216

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2045) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.37	3.12	5.90	0.01	0.06	—	0.06	0.05	—	0.05	—	1,163	1,163	0.05	0.01	—	1,167
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.08	0.07	0.57	1.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	193	193	0.01	< 0.005	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.44	0.36	10.0	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,478	3,478	0.02	0.02	0.81	3,486
Vendor	0.10	0.09	2.85	1.05	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,567	2,567	0.01	0.40	0.24	2,688
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.42	0.38	6.62	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,059	3,059	0.03	0.02	0.02	3,066
Vendor	0.09	0.08	3.08	1.09	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,571	2,571	0.01	0.40	0.01	2,691
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.20	0.18	3.57	0.00	0.00	1.90	1.90	0.00	0.45	0.45	—	1,541	1,541	0.01	0.01	0.17	1,545
Vendor	0.05	0.04	1.46	0.52	0.01	0.01	0.54	0.55	0.01	0.15	0.16	—	1,247	1,247	0.01	0.20	0.05	1,305
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.65	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	255	255	< 0.005	< 0.005	0.03	256
Vendor	0.01	0.01	0.27	0.09	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	206	206	< 0.005	0.03	0.01	216
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2045) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.45	5.07	9.71	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.81	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.45	5.07	9.71	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.81	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.54	1.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	161	161	0.01	< 0.005	—	162
Paving	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.7	26.7	< 0.005	< 0.005	—	26.8
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.46	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	161	161	< 0.005	< 0.005	0.04	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.31	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	142	142	< 0.005	< 0.005	< 0.005	142
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	< 0.005	15.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2045) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.45	5.07	9.71	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.81	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.45	5.07	9.71	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.81	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.54	1.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	161	161	0.01	< 0.005	—	162
Paving	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.7	26.7	< 0.005	< 0.005	—	26.8
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.46	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	161	161	< 0.005	< 0.005	0.04	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.31	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	142	142	< 0.005	< 0.005	< 0.005	142
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	< 0.005	15.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2045) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.5	95.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	—	14.3
Architectural Coatings	10.2	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.36	2.36	< 0.005	< 0.005	—	2.37
Architectural Coatings	1.86	1.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.32	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	612	612	0.01	< 0.005	< 0.005	613
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	67.9	67.9	< 0.005	< 0.005	0.01	68.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2045) - Mitigated

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

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

Off-Roa Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.5	95.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	—	14.3
Architectural Coatings	10.2	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.36	2.36	< 0.005	< 0.005	—	2.37
Architectural Coatings	1.86	1.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.32	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	612	612	0.01	< 0.005	< 0.005	613
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	67.9	67.9	< 0.005	< 0.005	0.01	68.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.89	1.62	27.3	35.6	0.32	0.50	20.6	21.1	0.48	5.33	5.81	—	33,626	33,626	0.23	3.72	9.65	34,752

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	0.00
Total	1.89	1.62	27.3	35.6	0.32	0.50	20.6	21.1	0.48	5.33	5.81	—	33,626	33,626	0.23	3.72	9.65	34,752
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.79	1.53	29.4	25.6	0.31	0.50	20.6	21.1	0.48	5.33	5.81	—	32,437	32,437	0.24	3.75	0.25	33,561
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	0.00
Total	1.79	1.53	29.4	25.6	0.31	0.50	20.6	21.1	0.48	5.33	5.81	—	32,437	32,437	0.24	3.75	0.25	33,561
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.33	0.28	5.23	5.05	0.06	0.09	3.71	3.80	0.09	0.96	1.05	—	5,424	5,424	0.04	0.62	0.69	5,610
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	0.00
Total	0.33	0.28	5.23	5.05	0.06	0.09	3.71	3.80	0.09	0.96	1.05	—	5,424	5,424	0.04	0.62	0.69	5,610

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.89	1.62	27.3	35.6	0.32	0.50	20.6	21.1	0.48	5.33	5.81	—	33,626	33,626	0.23	3.72	9.65	34,752

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	0.00
Total	1.89	1.62	27.3	35.6	0.32	0.50	20.6	21.1	0.48	5.33	5.81	—	33,626	33,626	0.23	3.72	9.65	34,752
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.79	1.53	29.4	25.6	0.31	0.50	20.6	21.1	0.48	5.33	5.81	—	32,437	32,437	0.24	3.75	0.25	33,561
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	0.00
Total	1.79	1.53	29.4	25.6	0.31	0.50	20.6	21.1	0.48	5.33	5.81	—	32,437	32,437	0.24	3.75	0.25	33,561
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.33	0.28	5.23	5.05	0.06	0.09	3.71	3.80	0.09	0.96	1.05	—	5,424	5,424	0.04	0.62	0.69	5,610
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	0.00
Total	0.33	0.28	5.23	5.05	0.06	0.09	3.71	3.80	0.09	0.96	1.05	—	5,424	5,424	0.04	0.62	0.69	5,610

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	256	256	0.04	0.01	—	259
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,887	4,887	0.79	0.10	—	4,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	256	256	0.04	0.01	—	259
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,887	4,887	0.79	0.10	—	4,936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	767	767	0.12	0.02	—	774
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	42.4	42.4	0.01	< 0.005	—	42.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	809	809	0.13	0.02	—	817

4.2.2. Electricity Emissions By Land Use - Mitigated

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

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

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	256	256	0.04	0.01	—	259
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,887	4,887	0.79	0.10	—	4,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	256	256	0.04	0.01	—	259
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,887	4,887	0.79	0.10	—	4,936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	767	767	0.12	0.02	—	774
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	42.4	42.4	0.01	< 0.005	—	42.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	809	809	0.13	0.02	—	817

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Unrefrigerated	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219
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
Total	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Unrefrigerated Warehouse-Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219
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
Total	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.98	5.52	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Total	7.04	6.58	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.54	0.50	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Total	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.98	5.52	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Total	7.04	6.58	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.54	0.50	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Total	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,874
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	4/27/2043	5/25/2043	5.00	21.0	—
Grading	Grading	5/26/2043	8/10/2043	5.00	55.0	—
Building Construction	Building Construction	8/11/2043	9/5/2045	5.00	541	—
Paving	Paving	9/6/2045	10/30/2045	5.00	39.0	—
Architectural Coating	Architectural Coating	10/31/2045	12/22/2045	5.00	39.0	—

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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20

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

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	324	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	126	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	64.8	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	324	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	126	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	64.8	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	1,157,400	385,800	31,379

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	31.5	0.00	—
Grading	—	—	165	0.00	—
Paving	0.00	0.00	0.00	0.00	12.0

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
Unrefrigerated Warehouse-No Rail	0.00	0%

Parking Lot	4.37	100%
Parking Lot	7.63	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2043	0.00	204	0.03	< 0.005
2044	0.00	204	0.03	< 0.005
2045	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,173	1,173	1,173	428,084	26,972	26,972	26,972	9,844,695
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Unrefrigerated Warehouse-No Rail	1,173	1,173	1,173	428,084	26,972	26,972	26,972	9,844,695
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	1,157,400	385,800	31,379

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)
Unrefrigerated Warehouse-No Rail	8,286,841	204	0.0330	0.0040	4,115,831
Parking Lot	166,906	204	0.0330	0.0040	0.00

Parking Lot	291,226	204	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)
Unrefrigerated Warehouse-No Rail	8,286,841	204	0.0330	0.0040	4,115,831
Parking Lot	166,906	204	0.0330	0.0040	0.00
Parking Lot	291,226	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	178,432,500	8,157,409
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	178,432,500	8,157,409
Parking Lot	0.00	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)

Unrefrigerated Warehouse-No Rail	725	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	725	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

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

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P4 Custom Report

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5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P4
Construction Start Date	10/11/2040
Operational Year	2043
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	738	1000sqft	35.0	738,000	464,870	0.00	—	Phase 1 - Parcel 4

Parking Lot	346	Space	3.11	0.00	0.00	0.00	—	Standard Parking
Parking Lot	812	Space	7.31	0.00	0.00	0.00	—	Truck Parking (406 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	96.1	96.1	9.86	23.4	0.05	0.17	4.86	5.03	0.15	1.19	1.34	—	8,356	8,356	0.16	0.43	2.26	8,489
Mit.	96.1	96.1	9.86	23.4	0.05	0.17	4.86	5.03	0.15	1.19	1.34	—	8,356	8,356	0.16	0.43	2.26	8,489
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	96.1	96.1	16.0	22.9	0.06	0.58	19.9	20.5	0.53	10.2	10.7	—	7,953	7,953	0.27	0.43	0.06	8,084
Mit.	96.1	96.1	16.0	22.9	0.06	0.58	5.32	5.90	0.53	2.68	3.21	—	7,953	7,953	0.27	0.43	0.06	8,084

% Reduced	—	—	—	—	—	—	73%	71%	—	74%	70%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.91	9.89	7.20	14.8	0.04	0.13	3.58	3.71	0.12	0.95	1.04	—	5,722	5,722	0.12	0.30	0.66	5,816
Mit.	9.91	9.89	7.20	14.8	0.04	0.13	3.44	3.55	0.12	0.84	0.95	—	5,722	5,722	0.12	0.30	0.66	5,816
% Reduced	—	—	—	—	—	—	4%	4%	—	12%	9%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.81	1.81	1.31	2.70	0.01	0.02	0.65	0.68	0.02	0.17	0.19	—	947	947	0.02	0.05	0.11	963
Mit.	1.81	1.81	1.31	2.70	0.01	0.02	0.63	0.65	0.02	0.15	0.17	—	947	947	0.02	0.05	0.11	963
% Reduced	—	—	—	—	—	—	4%	4%	—	12%	9%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	1.65	1.34	9.86	23.4	0.05	0.17	4.86	5.03	0.15	1.19	1.34	—	8,356	8,356	0.16	0.43	2.26	8,489
2042	1.62	1.32	9.78	23.2	0.05	0.16	4.86	5.03	0.15	1.19	1.34	—	8,302	8,302	0.16	0.43	1.85	8,434
2043	96.1	96.1	0.81	3.04	< 0.005	< 0.005	0.76	0.76	< 0.005	0.18	0.18	—	803	803	0.01	0.01	0.22	805
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	2.61	2.19	16.0	22.9	0.06	0.58	19.9	20.5	0.53	10.2	10.7	—	6,789	6,789	0.27	0.05	< 0.005	6,812
2041	2.46	2.07	12.9	22.5	0.06	0.45	9.45	9.89	0.41	3.71	4.12	—	7,953	7,953	0.27	0.43	0.06	8,084
2042	1.48	1.30	10.00	20.0	0.05	0.16	4.86	5.03	0.15	1.19	1.34	—	7,900	7,900	0.16	0.43	0.05	8,031
2043	96.1	96.1	9.90	19.8	0.05	0.16	4.86	5.02	0.15	1.19	1.33	—	7,854	7,854	0.14	0.43	0.04	7,985

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	0.41	0.34	2.30	3.54	0.01	0.08	2.09	2.17	0.08	0.95	1.02	—	1,018	1,018	0.04	0.01	0.01	1,021
2041	1.18	0.96	7.20	14.8	0.04	0.13	3.58	3.71	0.12	0.92	1.04	—	5,684	5,684	0.12	0.29	0.66	5,774
2042	1.06	0.92	7.08	14.7	0.04	0.12	3.44	3.55	0.11	0.84	0.95	—	5,722	5,722	0.12	0.30	0.57	5,816
2043	9.91	9.89	0.83	1.76	< 0.005	0.01	0.21	0.22	0.01	0.05	0.06	—	431	431	0.01	0.01	0.03	434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	0.07	0.06	0.42	0.65	< 0.005	0.02	0.38	0.40	0.01	0.17	0.19	—	169	169	0.01	< 0.005	< 0.005	169
2041	0.22	0.18	1.31	2.70	0.01	0.02	0.65	0.68	0.02	0.17	0.19	—	941	941	0.02	0.05	0.11	956
2042	0.19	0.17	1.29	2.68	0.01	0.02	0.63	0.65	0.02	0.15	0.17	—	947	947	0.02	0.05	0.09	963
2043	1.81	1.81	0.15	0.32	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	71.3	71.3	< 0.005	< 0.005	< 0.005	71.9

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	1.65	1.34	9.86	23.4	0.05	0.17	4.86	5.03	0.15	1.19	1.34	—	8,356	8,356	0.16	0.43	2.26	8,489
2042	1.62	1.32	9.78	23.2	0.05	0.16	4.86	5.03	0.15	1.19	1.34	—	8,302	8,302	0.16	0.43	1.85	8,434
2043	96.1	96.1	0.81	3.04	< 0.005	< 0.005	0.76	0.76	< 0.005	0.18	0.18	—	803	803	0.01	0.01	0.22	805
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	2.61	2.19	16.0	22.9	0.06	0.58	5.32	5.90	0.53	2.68	3.21	—	6,789	6,789	0.27	0.05	< 0.005	6,812
2041	2.46	2.07	12.9	22.5	0.06	0.45	4.86	5.03	0.41	1.19	1.42	—	7,953	7,953	0.27	0.43	0.06	8,084
2042	1.48	1.30	10.00	20.0	0.05	0.16	4.86	5.03	0.15	1.19	1.34	—	7,900	7,900	0.16	0.43	0.05	8,031
2043	96.1	96.1	9.90	19.8	0.05	0.16	4.86	5.02	0.15	1.19	1.33	—	7,854	7,854	0.14	0.43	0.04	7,985
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2040	0.41	0.34	2.30	3.54	0.01	0.08	0.57	0.65	0.08	0.25	0.33	—	1,018	1,018	0.04	0.01	0.01	1,021
2041	1.18	0.96	7.20	14.8	0.04	0.13	3.34	3.47	0.12	0.83	0.95	—	5,684	5,684	0.12	0.29	0.66	5,774
2042	1.06	0.92	7.08	14.7	0.04	0.12	3.44	3.55	0.11	0.84	0.95	—	5,722	5,722	0.12	0.30	0.57	5,816
2043	9.91	9.89	0.83	1.76	< 0.005	0.01	0.21	0.22	0.01	0.05	0.06	—	431	431	0.01	0.01	0.03	434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2040	0.07	0.06	0.42	0.65	< 0.005	0.02	0.10	0.12	0.01	0.05	0.06	—	169	169	0.01	< 0.005	< 0.005	169
2041	0.22	0.18	1.31	2.70	0.01	0.02	0.61	0.63	0.02	0.15	0.17	—	941	941	0.02	0.05	0.11	956
2042	0.19	0.17	1.29	2.68	0.01	0.02	0.63	0.65	0.02	0.15	0.17	—	947	947	0.02	0.05	0.09	963
2043	1.81	1.81	0.15	0.32	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	71.3	71.3	< 0.005	< 0.005	< 0.005	71.9

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.70	7.93	27.7	67.5	0.32	0.62	19.7	20.3	0.59	5.10	5.69	701	38,858	39,559	72.1	4.49	12.3	42,712
Mit.	8.70	7.93	27.7	67.5	0.32	0.62	19.7	20.3	0.59	5.10	5.69	701	38,858	39,559	72.1	4.49	12.3	42,712
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.89	2.57	29.5	25.6	0.31	0.57	19.7	20.2	0.54	5.10	5.64	701	37,582	38,283	72.1	4.52	0.32	41,431
Mit.	2.89	2.57	29.5	25.6	0.31	0.57	19.7	20.2	0.54	5.10	5.64	701	37,582	38,283	72.1	4.52	0.32	41,431
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.73	5.19	28.9	43.5	0.31	0.59	19.5	20.1	0.57	5.05	5.61	701	37,961	38,662	72.1	4.50	5.32	41,811

Mit.	5.73	5.19	28.9	43.5	0.31	0.59	19.5	20.1	0.57	5.05	5.61	701	37,961	38,662	72.1	4.50	5.32	41,811
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.05	0.95	5.27	7.94	0.06	0.11	3.55	3.66	0.10	0.92	1.02	116	6,285	6,401	11.9	0.75	0.88	6,922
Mit.	1.05	0.95	5.27	7.94	0.06	0.11	3.55	3.66	0.10	0.92	1.02	116	6,285	6,401	11.9	0.75	0.88	6,922
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.86	1.59	26.4	34.5	0.31	0.48	19.7	20.2	0.46	5.10	5.56	—	32,427	32,427	0.23	3.59	12.3	33,516
Area	6.73	6.28	0.27	32.1	< 0.005	0.06	—	0.06	0.04	—	0.04	—	132	132	0.01	< 0.005	—	132
Energy	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	5,913	5,913	0.86	0.09	—	5,963
Water	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Waste	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Total	8.70	7.93	27.7	67.5	0.32	0.62	19.7	20.3	0.59	5.10	5.69	701	38,858	39,559	72.1	4.49	12.3	42,712
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.77	1.50	28.5	24.8	0.30	0.49	19.7	20.2	0.46	5.10	5.56	—	31,283	31,283	0.24	3.62	0.32	32,368
Area	1.01	1.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	5,913	5,913	0.86	0.09	—	5,963
Water	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Waste	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Total	2.89	2.57	29.5	25.6	0.31	0.57	19.7	20.2	0.54	5.10	5.64	701	37,582	38,283	72.1	4.52	0.32	41,431

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.79	1.52	27.7	26.8	0.30	0.49	19.5	19.9	0.46	5.05	5.51	—	31,596	31,596	0.24	3.61	5.32	32,682
Area	3.83	3.61	0.13	15.8	< 0.005	0.03	—	0.03	0.02	—	0.02	—	65.1	65.1	< 0.005	< 0.005	—	65.3
Energy	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	5,913	5,913	0.86	0.09	—	5,963
Water	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Waste	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Total	5.73	5.19	28.9	43.5	0.31	0.59	19.5	20.1	0.57	5.05	5.61	701	37,961	38,662	72.1	4.50	5.32	41,811
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.33	0.28	5.06	4.89	0.06	0.09	3.55	3.64	0.08	0.92	1.01	—	5,231	5,231	0.04	0.60	0.88	5,411
Area	0.70	0.66	0.02	2.89	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.8
Energy	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	979	979	0.14	0.02	—	987
Water	—	—	—	—	—	—	—	—	—	—	—	54.1	63.9	118	5.56	0.13	—	297
Waste	—	—	—	—	—	—	—	—	—	—	—	61.9	0.00	61.9	6.19	0.00	—	217
Total	1.05	0.95	5.27	7.94	0.06	0.11	3.55	3.66	0.10	0.92	1.02	116	6,285	6,401	11.9	0.75	0.88	6,922

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.86	1.59	26.4	34.5	0.31	0.48	19.7	20.2	0.46	5.10	5.56	—	32,427	32,427	0.23	3.59	12.3	33,516
Area	6.73	6.28	0.27	32.1	< 0.005	0.06	—	0.06	0.04	—	0.04	—	132	132	0.01	< 0.005	—	132
Energy	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	5,913	5,913	0.86	0.09	—	5,963
Water	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Waste	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Total	8.70	7.93	27.7	67.5	0.32	0.62	19.7	20.3	0.59	5.10	5.69	701	38,858	39,559	72.1	4.49	12.3	42,712

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.77	1.50	28.5	24.8	0.30	0.49	19.7	20.2	0.46	5.10	5.56	—	31,283	31,283	0.24	3.62	0.32	32,368
Area	1.01	1.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	5,913	5,913	0.86	0.09	—	5,963
Water	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Waste	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Total	2.89	2.57	29.5	25.6	0.31	0.57	19.7	20.2	0.54	5.10	5.64	701	37,582	38,283	72.1	4.52	0.32	41,431
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.79	1.52	27.7	26.8	0.30	0.49	19.5	19.9	0.46	5.05	5.51	—	31,596	31,596	0.24	3.61	5.32	32,682
Area	3.83	3.61	0.13	15.8	< 0.005	0.03	—	0.03	0.02	—	0.02	—	65.1	65.1	< 0.005	< 0.005	—	65.3
Energy	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	5,913	5,913	0.86	0.09	—	5,963
Water	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Waste	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Total	5.73	5.19	28.9	43.5	0.31	0.59	19.5	20.1	0.57	5.05	5.61	701	37,961	38,662	72.1	4.50	5.32	41,811
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.33	0.28	5.06	4.89	0.06	0.09	3.55	3.64	0.08	0.92	1.01	—	5,231	5,231	0.04	0.60	0.88	5,411
Area	0.70	0.66	0.02	2.89	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.8
Energy	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	979	979	0.14	0.02	—	987
Water	—	—	—	—	—	—	—	—	—	—	—	54.1	63.9	118	5.56	0.13	—	297
Waste	—	—	—	—	—	—	—	—	—	—	—	61.9	0.00	61.9	6.19	0.00	—	217
Total	1.05	0.95	5.27	7.94	0.06	0.11	3.55	3.66	0.10	0.92	1.02	116	6,285	6,401	11.9	0.75	0.88	6,922

3. Construction Emissions Details

3.1. Site Preparation (2040) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.58	2.17	15.9	19.8	0.05	0.58	—	0.58	0.53	—	0.53	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.87	1.09	< 0.005	0.03	—	0.03	0.03	—	0.03	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	1.08	1.08	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.16	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.0	48.0	< 0.005	< 0.005	—	48.2

Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.39	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	169	169	< 0.005	< 0.005	< 0.005	169
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.59	9.59	< 0.005	< 0.005	< 0.005	9.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2040) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.58	2.17	15.9	19.8	0.05	0.58	—	0.58	0.53	—	0.53	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.87	1.09	< 0.005	0.03	—	0.03	0.03	—	0.03	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.16	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.39	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	169	169	< 0.005	< 0.005	< 0.005	169
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.59	9.59	< 0.005	< 0.005	< 0.005	9.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2040) - Unmitigated

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

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

Off-Roa Equipment	2.49	2.10	13.5	22.5	0.06	0.48	—	0.48	0.44	—	0.44	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.26	0.22	1.43	2.38	0.01	0.05	—	0.05	0.05	—	0.05	—	697	697	0.03	0.01	—	699
Dust From Material Movement	—	—	—	—	—	—	0.97	0.97	—	0.39	0.39	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.05	0.04	0.26	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	115	115	< 0.005	< 0.005	—	116
Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.44	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	193	193	< 0.005	< 0.005	< 0.005	193
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	21.1	21.1	< 0.005	< 0.005	0.01	21.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.50	3.50	< 0.005	< 0.005	< 0.005	3.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2040) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.49	2.10	13.5	22.5	0.06	0.48	—	0.48	0.44	—	0.44	—	6,596	6,596	0.27	0.05	—	6,619

Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.43	2.38	0.01	0.05	—	0.05	0.05	—	0.05	—	697	697	0.03	0.01	—	699
Dust From Material Movement	—	—	—	—	—	—	0.25	0.25	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.26	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	115	115	< 0.005	< 0.005	—	116
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.44	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	193	193	< 0.005	< 0.005	< 0.005	193

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	21.1	21.1	< 0.005	< 0.005	0.01	21.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.50	3.50	< 0.005	< 0.005	< 0.005	3.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2041) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.43	2.04	12.9	22.1	0.06	0.45	—	0.45	0.41	—	0.41	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.45	0.78	< 0.005	0.02	—	0.02	0.01	—	0.01	—	232	232	0.01	< 0.005	—	233
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.08	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.5	38.5	< 0.005	< 0.005	—	38.6
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.43	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	192	192	< 0.005	< 0.005	< 0.005	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.01	7.01	< 0.005	< 0.005	< 0.005	7.02

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2041) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.43	2.04	12.9	22.1	0.06	0.45	—	0.45	0.41	—	0.41	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.45	0.78	< 0.005	0.02	—	0.02	0.01	—	0.01	—	232	232	0.01	< 0.005	—	233

Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.08	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.5	38.5	< 0.005	< 0.005	—	38.6
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.43	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	192	192	< 0.005	< 0.005	< 0.005	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.01	7.01	< 0.005	< 0.005	< 0.005	7.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.16

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2041) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	6.65	12.3	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	6.65	12.3	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.54	4.49	8.33	0.02	0.09	—	0.09	0.09	—	0.09	—	1,618	1,618	0.07	0.01	—	1,624
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.12	0.10	0.82	1.52	< 0.005	0.02	—	0.02	0.02	—	0.02	—	268	268	0.01	< 0.005	—	269
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.46	0.35	10.0	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	3,377	3,377	0.02	0.02	1.58	3,385
Vendor	0.10	0.08	2.86	1.01	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,583	2,583	0.04	0.39	0.68	2,700
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.49	6.68	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	2,969	2,969	0.03	0.02	0.04	2,976
Vendor	0.09	0.08	3.06	1.04	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,587	2,587	0.04	0.39	0.02	2,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.30	0.24	4.97	0.00	0.00	2.53	2.53	0.00	0.59	0.59	—	2,081	2,081	0.02	0.01	0.46	2,086
Vendor	0.07	0.06	2.01	0.69	0.02	0.02	0.72	0.74	0.02	0.20	0.22	—	1,745	1,745	0.03	0.26	0.20	1,823
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.04	0.91	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	345	345	< 0.005	< 0.005	0.08	345
Vendor	0.01	0.01	0.37	0.13	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	289	289	< 0.005	0.04	0.03	302
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2041) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	6.65	12.3	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	6.65	12.3	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.54	4.49	8.33	0.02	0.09	—	0.09	0.09	—	0.09	—	1,618	1,618	0.07	0.01	—	1,624
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.82	1.52	< 0.005	0.02	—	0.02	0.02	—	0.02	—	268	268	0.01	< 0.005	—	269
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.60	0.46	0.35	10.0	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	3,377	3,377	0.02	0.02	1.58	3,385
Vendor	0.10	0.08	2.86	1.01	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,583	2,583	0.04	0.39	0.68	2,700
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.49	6.68	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	2,969	2,969	0.03	0.02	0.04	2,976
Vendor	0.09	0.08	3.06	1.04	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,587	2,587	0.04	0.39	0.02	2,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.30	0.24	4.97	0.00	0.00	2.53	2.53	0.00	0.59	0.59	—	2,081	2,081	0.02	0.01	0.46	2,086
Vendor	0.07	0.06	2.01	0.69	0.02	0.02	0.72	0.74	0.02	0.20	0.22	—	1,745	1,745	0.03	0.26	0.20	1,823
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.04	0.91	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	345	345	< 0.005	< 0.005	0.08	345
Vendor	0.01	0.01	0.37	0.13	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	289	289	< 0.005	0.04	0.03	302
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2042) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.72	8.81	0.02	0.10	—	0.10	0.09	—	0.09	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.86	1.61	< 0.005	0.02	—	0.02	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.45	0.35	9.88	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	3,361	3,361	0.02	0.02	1.32	3,369
Vendor	0.10	0.08	2.83	1.01	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,544	2,544	0.04	0.39	0.52	2,660
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.44	0.43	0.37	6.64	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	2,956	2,956	0.03	0.02	0.03	2,963
Vendor	0.09	0.07	3.02	1.04	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,547	2,547	0.04	0.39	0.01	2,663
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.30	0.26	5.15	0.00	0.00	2.67	2.67	0.00	0.63	0.63	—	2,192	2,192	0.02	0.01	0.41	2,197
Vendor	0.07	0.06	2.10	0.73	0.02	0.02	0.76	0.78	0.02	0.21	0.23	—	1,818	1,818	0.03	0.28	0.16	1,901
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.94	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	363	363	< 0.005	< 0.005	0.07	364
Vendor	0.01	0.01	0.38	0.13	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	301	301	< 0.005	0.05	0.03	315
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2042) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.72	8.81	0.02	0.10	—	0.10	0.09	—	0.09	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.86	1.61	< 0.005	0.02	—	0.02	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.45	0.35	9.88	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	3,361	3,361	0.02	0.02	1.32	3,369
Vendor	0.10	0.08	2.83	1.01	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,544	2,544	0.04	0.39	0.52	2,660
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.43	0.37	6.64	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	2,956	2,956	0.03	0.02	0.03	2,963
Vendor	0.09	0.07	3.02	1.04	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,547	2,547	0.04	0.39	0.01	2,663
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.30	0.26	5.15	0.00	0.00	2.67	2.67	0.00	0.63	0.63	—	2,192	2,192	0.02	0.01	0.41	2,197
Vendor	0.07	0.06	2.10	0.73	0.02	0.02	0.76	0.78	0.02	0.21	0.23	—	1,818	1,818	0.03	0.28	0.16	1,901
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.94	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	363	363	< 0.005	< 0.005	0.07	364
Vendor	0.01	0.01	0.38	0.13	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	301	301	< 0.005	0.05	0.03	315
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2043) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.3	56.3	< 0.005	< 0.005	—	56.5

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.32	9.32	< 0.005	< 0.005	—	9.35
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.37	6.49	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	2,944	2,944	0.03	0.02	0.03	2,951
Vendor	0.09	0.07	2.98	1.04	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,513	2,513	0.01	0.39	0.01	2,629
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	71.8	71.8	< 0.005	< 0.005	0.01	71.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	59.0	59.0	< 0.005	0.01	< 0.005	61.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	< 0.005	11.9
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.76	9.76	< 0.005	< 0.005	< 0.005	10.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2043) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.3	56.3	< 0.005	< 0.005	—	56.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.32	9.32	< 0.005	< 0.005	—	9.35
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.37	6.49	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	2,944	2,944	0.03	0.02	0.03	2,951

Vendor	0.09	0.07	2.98	1.04	0.03	0.03	1.08	1.10	0.03	0.30	0.33	—	2,513	2,513	0.01	0.39	0.01	2,629
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	71.8	71.8	< 0.005	< 0.005	0.01	71.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	59.0	59.0	< 0.005	0.01	< 0.005	61.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	< 0.005	11.9
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.76	9.76	< 0.005	< 0.005	< 0.005	10.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2043) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.12	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.74	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.06	0.05	0.52	0.99	< 0.005	0.01	—	0.01	0.01	—	0.01	—	153	153	0.01	< 0.005	—	154
Paving	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	25.4	25.4	< 0.005	< 0.005	—	25.4
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.31	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	142	142	< 0.005	< 0.005	< 0.005	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	< 0.005	15.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.48	2.48	< 0.005	< 0.005	< 0.005	2.49
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2043) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.12	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.74	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.52	0.99	< 0.005	0.01	—	0.01	0.01	—	0.01	—	153	153	0.01	< 0.005	—	154
Paving	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	25.4	25.4	< 0.005	< 0.005	—	25.4
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.31	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	142	142	< 0.005	< 0.005	< 0.005	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	< 0.005	15.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.48	2.48	< 0.005	< 0.005	< 0.005	2.49
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2043) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134

Architectural	95.9	95.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.9	95.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.5	13.5	< 0.005	< 0.005	—	13.6
Architectural Coatings	9.72	9.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.24	2.24	< 0.005	< 0.005	—	2.25
Architectural Coatings	1.77	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.95	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	670	670	< 0.005	< 0.005	0.22	671
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.30	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	589	589	0.01	< 0.005	0.01	590
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	62.0	62.0	< 0.005	< 0.005	0.01	62.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2043) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.9	95.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.9	95.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.5	13.5	< 0.005	< 0.005	—	13.6
Architectural Coatings	9.72	9.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.24	2.24	< 0.005	< 0.005	—	2.25
Architectural Coatings	1.77	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.95	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	670	670	< 0.005	< 0.005	0.22	671
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.30	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	589	589	0.01	< 0.005	0.01	590
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	62.0	62.0	< 0.005	< 0.005	0.01	62.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.86	1.59	26.4	34.5	0.31	0.48	19.7	20.2	0.46	5.10	5.56	—	32,427	32,427	0.23	3.59	12.3	33,516
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	0.00
Total	1.86	1.59	26.4	34.5	0.31	0.48	19.7	20.2	0.46	5.10	5.56	—	32,427	32,427	0.23	3.59	12.3	33,516
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.77	1.50	28.5	24.8	0.30	0.49	19.7	20.2	0.46	5.10	5.56	—	31,283	31,283	0.24	3.62	0.32	32,368
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	0.00
Total	1.77	1.50	28.5	24.8	0.30	0.49	19.7	20.2	0.46	5.10	5.56	—	31,283	31,283	0.24	3.62	0.32	32,368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.33	0.28	5.06	4.89	0.06	0.09	3.55	3.64	0.08	0.92	1.01	—	5,231	5,231	0.04	0.60	0.88	5,411
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	0.00
Total	0.33	0.28	5.06	4.89	0.06	0.09	3.55	3.64	0.08	0.92	1.01	—	5,231	5,231	0.04	0.60	0.88	5,411

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.86	1.59	26.4	34.5	0.31	0.48	19.7	20.2	0.46	5.10	5.56	—	32,427	32,427	0.23	3.59	12.3	33,516
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	0.00
Total	1.86	1.59	26.4	34.5	0.31	0.48	19.7	20.2	0.46	5.10	5.56	—	32,427	32,427	0.23	3.59	12.3	33,516
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.77	1.50	28.5	24.8	0.30	0.49	19.7	20.2	0.46	5.10	5.56	—	31,283	31,283	0.24	3.62	0.32	32,368
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	0.00
Total	1.77	1.50	28.5	24.8	0.30	0.49	19.7	20.2	0.46	5.10	5.56	—	31,283	31,283	0.24	3.62	0.32	32,368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	0.33	0.28	5.06	4.89	0.06	0.09	3.55	3.64	0.08	0.92	1.01	—	5,231	5,231	0.04	0.60	0.88	5,411
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	0.00
Total	0.33	0.28	5.06	4.89	0.06	0.09	3.55	3.64	0.08	0.92	1.01	—	5,231	5,231	0.04	0.60	0.88	5,411

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,429	4,429	0.72	0.09	—	4,473
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	222	222	0.04	< 0.005	—	224
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,652	4,652	0.75	0.09	—	4,698
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,429	4,429	0.72	0.09	—	4,473
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	222	222	0.04	< 0.005	—	224
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,652	4,652	0.75	0.09	—	4,698

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	733	733	0.12	0.01	—	741
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	36.8	36.8	0.01	< 0.005	—	37.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	770	770	0.12	0.02	—	778

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,429	4,429	0.72	0.09	—	4,473
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	222	222	0.04	< 0.005	—	224
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,652	4,652	0.75	0.09	—	4,698
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,429	4,429	0.72	0.09	—	4,473
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	222	222	0.04	< 0.005	—	224
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,652	4,652	0.75	0.09	—	4,698

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	733	733	0.12	0.01	—	741
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	36.8	36.8	0.01	< 0.005	—	37.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	770	770	0.12	0.02	—	778

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,265
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
Total	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,265
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,265
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
Total	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,265

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	209	209	0.02	< 0.005	—	209
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
Total	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	209	209	0.02	< 0.005	—	209

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,265
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
Total	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,265
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,265
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
Total	0.12	0.06	1.06	0.89	0.01	0.08	—	0.08	0.08	—	0.08	—	1,262	1,262	0.11	< 0.005	—	1,265

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	209	209	0.02	< 0.005	—	209
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
Total	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	209	209	0.02	< 0.005	—	209

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.97	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.72	5.28	0.27	32.1	< 0.005	0.06	—	0.06	0.04	—	0.04	—	132	132	0.01	< 0.005	—	132
Total	6.73	6.28	0.27	32.1	< 0.005	0.06	—	0.06	0.04	—	0.04	—	132	132	0.01	< 0.005	—	132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.97	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.01	1.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.18	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.51	0.47	0.02	2.89	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.8
Total	0.70	0.66	0.02	2.89	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.8

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.97	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	5.72	5.28	0.27	32.1	< 0.005	0.06	—	0.06	0.04	—	0.04	—	132	132	0.01	< 0.005	—	132
Total	6.73	6.28	0.27	32.1	< 0.005	0.06	—	0.06	0.04	—	0.04	—	132	132	0.01	< 0.005	—	132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.97	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.01	1.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.18	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.51	0.47	0.02	2.89	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.8
Total	0.70	0.66	0.02	2.89	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.8

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	54.1	63.9	118	5.56	0.13	—	297
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.1	63.9	118	5.56	0.13	—	297

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	327	386	713	33.6	0.80	—	1,793
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	54.1	63.9	118	5.56	0.13	—	297
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.1	63.9	118	5.56	0.13	—	297

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	61.9	0.00	61.9	6.19	0.00	—	217
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	61.9	0.00	61.9	6.19	0.00	—	217

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	374	0.00	374	37.4	0.00	—	1,308
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	61.9	0.00	61.9	6.19	0.00	—	217
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	61.9	0.00	61.9	6.19	0.00	—	217

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/11/2040	11/7/2040	5.00	20.0	—
Grading	Grading	11/8/2040	1/18/2041	5.00	52.0	—
Building Construction	Building Construction	1/21/2041	1/12/2043	5.00	516	—
Paving	Paving	1/13/2043	3/4/2043	5.00	37.0	—
Architectural Coating	Architectural Coating	3/5/2043	4/24/2043	5.00	37.0	—

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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Grading	Tractors/Loaders/Back	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	310	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	121	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	62.0	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	310	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	121	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	62.0	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	1,107,000	369,000	27,239

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)

Site Preparation	—	—	30.0	0.00	—
Grading	—	—	156	0.00	—
Paving	0.00	0.00	0.00	0.00	10.4

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	3.11	100%
Parking Lot	7.31	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2040	0.00	204	0.03	< 0.005
2041	0.00	204	0.03	< 0.005
2042	0.00	204	0.03	< 0.005
2043	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,122	1,122	1,122	409,442	25,797	25,797	25,797	9,415,999
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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
Unrefrigerated Warehouse-No Rail	1,122	1,122	1,122	409,442	25,797	25,797	25,797	9,415,999
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	1,107,000	369,000	27,239

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)
Unrefrigerated Warehouse-No Rail	7,925,984	204	0.0330	0.0040	3,936,603
Parking Lot	118,826	204	0.0330	0.0040	0.00
Parking Lot	278,863	204	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)
Unrefrigerated Warehouse-No Rail	7,925,984	204	0.0330	0.0040	3,936,603
Parking Lot	118,826	204	0.0330	0.0040	0.00
Parking Lot	278,863	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	170,662,500	7,581,874
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	170,662,500	7,581,874
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	694	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	694	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor

Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P5 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P5
Construction Start Date	10/22/2038
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	571	1000sqft	31.3	571,200	503,896	0.00	—	Phase 1 - Parcel 5

Parking Lot	276	Space	2.48	0.00	0.00	0.00	—	Standard Parking
Parking Lot	600	Space	5.40	0.00	0.00	0.00	—	Truck Parking (300 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	94.8	94.8	9.32	21.4	0.05	0.17	3.76	3.93	0.16	0.92	1.07	—	7,113	7,113	0.14	0.36	2.58	7,225
Mit.	94.8	94.8	9.32	21.4	0.05	0.17	3.76	3.93	0.16	0.92	1.07	—	7,113	7,113	0.14	0.36	2.58	7,225
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	94.8	94.8	16.5	23.6	0.06	0.61	19.9	20.5	0.56	10.2	10.7	—	6,796	6,796	0.27	0.36	0.07	6,906
Mit.	94.8	94.8	16.5	23.6	0.06	0.61	5.32	5.94	0.56	2.68	3.24	—	6,796	6,796	0.27	0.36	0.07	6,906

% Reduced	—	—	—	—	—	—	73%	71%	—	74%	70%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.22	8.11	6.77	13.7	0.03	0.12	2.72	2.85	0.11	0.79	0.85	—	4,889	4,889	0.11	0.25	0.78	4,966
Mit.	8.22	8.11	6.77	13.7	0.03	0.12	2.63	2.75	0.11	0.65	0.76	—	4,889	4,889	0.11	0.25	0.78	4,966
% Reduced	—	—	—	—	—	—	3%	3%	—	18%	11%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.50	1.48	1.23	2.50	0.01	0.02	0.50	0.52	0.02	0.14	0.16	—	809	809	0.02	0.04	0.13	822
Mit.	1.50	1.48	1.23	2.50	0.01	0.02	0.48	0.50	0.02	0.12	0.14	—	809	809	0.02	0.04	0.13	822
% Reduced	—	—	—	—	—	—	3%	3%	—	18%	11%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2039	1.53	1.27	9.32	21.4	0.05	0.17	3.76	3.93	0.16	0.92	1.07	—	7,113	7,113	0.14	0.36	2.58	7,225
2040	94.8	94.8	9.22	21.2	0.05	0.16	3.76	3.93	0.15	0.92	1.07	—	7,058	7,058	0.14	0.36	2.13	7,169
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.69	2.26	16.5	23.6	0.06	0.61	19.9	20.5	0.56	10.2	10.7	—	6,791	6,791	0.27	0.05	< 0.005	6,814
2039	2.56	2.15	13.8	23.2	0.06	0.50	9.45	9.94	0.46	3.71	4.17	—	6,796	6,796	0.27	0.36	0.07	6,906
2040	94.8	94.8	9.50	18.5	0.05	0.16	3.76	3.93	0.15	0.92	1.07	—	6,743	6,743	0.15	0.36	0.06	6,853
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2038	0.36	0.30	2.05	3.09	0.01	0.07	1.74	1.81	0.07	0.79	0.85	—	865	865	0.03	0.01	0.01	868
2039	1.09	0.90	6.77	13.7	0.03	0.12	2.72	2.85	0.11	0.68	0.80	—	4,889	4,889	0.11	0.25	0.78	4,966
2040	8.22	8.11	4.17	8.50	0.02	0.07	1.53	1.61	0.07	0.37	0.44	—	2,881	2,881	0.06	0.14	0.38	2,925
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.07	0.05	0.37	0.56	< 0.005	0.01	0.32	0.33	0.01	0.14	0.16	—	143	143	0.01	< 0.005	< 0.005	144
2039	0.20	0.16	1.23	2.50	0.01	0.02	0.50	0.52	0.02	0.12	0.15	—	809	809	0.02	0.04	0.13	822
2040	1.50	1.48	0.76	1.55	< 0.005	0.01	0.28	0.29	0.01	0.07	0.08	—	477	477	0.01	0.02	0.06	484

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2039	1.53	1.27	9.32	21.4	0.05	0.17	3.76	3.93	0.16	0.92	1.07	—	7,113	7,113	0.14	0.36	2.58	7,225
2040	94.8	94.8	9.22	21.2	0.05	0.16	3.76	3.93	0.15	0.92	1.07	—	7,058	7,058	0.14	0.36	2.13	7,169
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.69	2.26	16.5	23.6	0.06	0.61	5.32	5.94	0.56	2.68	3.24	—	6,791	6,791	0.27	0.05	< 0.005	6,814
2039	2.56	2.15	13.8	23.2	0.06	0.50	3.76	3.93	0.46	1.01	1.46	—	6,796	6,796	0.27	0.36	0.07	6,906
2040	94.8	94.8	9.50	18.5	0.05	0.16	3.76	3.93	0.15	0.92	1.07	—	6,743	6,743	0.15	0.36	0.06	6,853
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.36	0.30	2.05	3.09	0.01	0.07	0.48	0.55	0.07	0.21	0.28	—	865	865	0.03	0.01	0.01	868
2039	1.09	0.90	6.77	13.7	0.03	0.12	2.63	2.75	0.11	0.65	0.76	—	4,889	4,889	0.11	0.25	0.78	4,966
2040	8.22	8.11	4.17	8.50	0.02	0.07	1.53	1.61	0.07	0.37	0.44	—	2,881	2,881	0.06	0.14	0.38	2,925
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.07	0.05	0.37	0.56	< 0.005	0.01	0.09	0.10	0.01	0.04	0.05	—	143	143	0.01	< 0.005	< 0.005	144
2039	0.20	0.16	1.23	2.50	0.01	0.02	0.48	0.50	0.02	0.12	0.14	—	809	809	0.02	0.04	0.13	822

2040	1.50	1.48	0.76	1.55	< 0.005	0.01	0.28	0.29	0.01	0.07	0.08	—	477	477	0.01	0.02	0.06	484

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.83	6.22	21.9	52.9	0.25	0.49	15.2	15.7	0.46	3.95	4.41	542	30,545	31,088	55.8	3.53	15.0	33,551
Mit.	6.83	6.22	21.9	52.9	0.25	0.49	15.2	15.7	0.46	3.95	4.41	542	30,545	31,088	55.8	3.53	15.0	33,551
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.32	2.06	23.4	20.4	0.24	0.45	15.2	15.7	0.43	3.95	4.38	542	29,547	30,089	55.8	3.55	0.39	32,544
Mit.	2.32	2.06	23.4	20.4	0.24	0.45	15.2	15.7	0.43	3.95	4.38	542	29,547	30,089	55.8	3.55	0.39	32,544
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.52	4.09	22.9	34.2	0.24	0.47	15.1	15.5	0.45	3.91	4.36	542	29,843	30,385	55.8	3.54	6.49	32,843
Mit.	4.52	4.09	22.9	34.2	0.24	0.47	15.1	15.5	0.45	3.91	4.36	542	29,843	30,385	55.8	3.54	6.49	32,843
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.83	0.75	4.18	6.24	0.04	0.09	2.75	2.84	0.08	0.71	0.79	89.8	4,941	5,031	9.24	0.59	1.07	5,437
Mit.	0.83	0.75	4.18	6.24	0.04	0.09	2.75	2.84	0.08	0.71	0.79	89.8	4,941	5,031	9.24	0.59	1.07	5,437
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.54	1.31	20.9	27.4	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	25,568	25,568	0.20	2.84	15.0	26,434
Area	5.20	4.86	0.21	24.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	102	102	< 0.005	< 0.005	—	103
Energy	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,573	4,573	0.67	0.07	—	4,611
Water	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Waste	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Total	6.83	6.22	21.9	52.9	0.25	0.49	15.2	15.7	0.46	3.95	4.41	542	30,545	31,088	55.8	3.53	15.0	33,551
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.46	1.23	22.6	19.7	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	24,672	24,672	0.20	2.86	0.39	25,530
Area	0.78	0.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,573	4,573	0.67	0.07	—	4,611
Water	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Waste	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Total	2.32	2.06	23.4	20.4	0.24	0.45	15.2	15.7	0.43	3.95	4.38	542	29,547	30,089	55.8	3.55	0.39	32,544
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.47	1.25	22.0	21.3	0.24	0.38	15.1	15.5	0.37	3.91	4.28	—	24,918	24,918	0.20	2.85	6.49	25,778
Area	2.96	2.79	0.10	12.3	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.4	50.4	< 0.005	< 0.005	—	50.6
Energy	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,573	4,573	0.67	0.07	—	4,611
Water	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Waste	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Total	4.52	4.09	22.9	34.2	0.24	0.47	15.1	15.5	0.45	3.91	4.36	542	29,843	30,385	55.8	3.54	6.49	32,843
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.27	0.23	4.01	3.88	0.04	0.07	2.75	2.82	0.07	0.71	0.78	—	4,125	4,125	0.03	0.47	1.07	4,268
Area	0.54	0.51	0.02	2.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.34	8.34	< 0.005	< 0.005	—	8.37
Energy	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	757	757	0.11	0.01	—	763
Water	—	—	—	—	—	—	—	—	—	—	—	41.9	50.0	91.9	4.31	0.10	—	230
Waste	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Total	0.83	0.75	4.18	6.24	0.04	0.09	2.75	2.84	0.08	0.71	0.79	89.8	4,941	5,031	9.24	0.59	1.07	5,437

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.54	1.31	20.9	27.4	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	25,568	25,568	0.20	2.84	15.0	26,434
Area	5.20	4.86	0.21	24.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	102	102	< 0.005	< 0.005	—	103
Energy	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,573	4,573	0.67	0.07	—	4,611
Water	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Waste	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Total	6.83	6.22	21.9	52.9	0.25	0.49	15.2	15.7	0.46	3.95	4.41	542	30,545	31,088	55.8	3.53	15.0	33,551
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.46	1.23	22.6	19.7	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	24,672	24,672	0.20	2.86	0.39	25,530
Area	0.78	0.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,573	4,573	0.67	0.07	—	4,611
Water	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Waste	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Total	2.32	2.06	23.4	20.4	0.24	0.45	15.2	15.7	0.43	3.95	4.38	542	29,547	30,089	55.8	3.55	0.39	32,544
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	1.47	1.25	22.0	21.3	0.24	0.38	15.1	15.5	0.37	3.91	4.28	—	24,918	24,918	0.20	2.85	6.49	25,778
Area	2.96	2.79	0.10	12.3	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.4	50.4	< 0.005	< 0.005	—	50.6
Energy	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,573	4,573	0.67	0.07	—	4,611
Water	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Waste	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Total	4.52	4.09	22.9	34.2	0.24	0.47	15.1	15.5	0.45	3.91	4.36	542	29,843	30,385	55.8	3.54	6.49	32,843
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.27	0.23	4.01	3.88	0.04	0.07	2.75	2.82	0.07	0.71	0.78	—	4,125	4,125	0.03	0.47	1.07	4,268
Area	0.54	0.51	0.02	2.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.34	8.34	< 0.005	< 0.005	—	8.37
Energy	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	757	757	0.11	0.01	—	763
Water	—	—	—	—	—	—	—	—	—	—	—	41.9	50.0	91.9	4.31	0.10	—	230
Waste	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Total	0.83	0.75	4.18	6.24	0.04	0.09	2.75	2.84	0.08	0.71	0.79	89.8	4,941	5,031	9.24	0.59	1.07	5,437

3. Construction Emissions Details

3.1. Site Preparation (2038) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.65	2.23	16.5	20.3	0.05	0.61	—	0.61	0.56	—	0.56	—	5,296	5,296	0.21	0.04	—	5,314

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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.72	0.89	< 0.005	0.03	—	0.03	0.02	—	0.02	—	232	232	0.01	< 0.005	—	233
Dust From Material Movement	—	—	—	—	—	—	0.86	0.86	—	0.44	0.44	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.4	38.4	< 0.005	< 0.005	—	38.6
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.41	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	171	171	< 0.005	< 0.005	< 0.005	171

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.77	7.77	< 0.005	< 0.005	< 0.005	7.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.29	1.29	< 0.005	< 0.005	< 0.005	1.29
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.65	2.23	16.5	20.3	0.05	0.61	—	0.61	0.56	—	0.56	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.72	0.89	< 0.005	0.03	—	0.03	0.02	—	0.02	—	232	232	0.01	< 0.005	—	233
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.12	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.4	38.4	< 0.005	< 0.005	—	38.6
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.41	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	171	171	< 0.005	< 0.005	< 0.005	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.77	7.77	< 0.005	< 0.005	< 0.005	7.79

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.29	1.29	< 0.005	< 0.005	< 0.005	1.29
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2038) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.57	2.16	14.3	23.2	0.06	0.52	—	0.52	0.48	—	0.48	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.32	2.13	0.01	0.05	—	0.05	0.04	—	0.04	—	607	607	0.02	< 0.005	—	609

Dust From Material Movement	—	—	—	—	—	—	0.85	0.85	—	0.34	0.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.24	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	100	100	< 0.005	< 0.005	—	101
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.47	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	195	195	< 0.005	< 0.005	< 0.005	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	18.6	18.6	< 0.005	< 0.005	0.01	18.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.09

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.57	2.16	14.3	23.2	0.06	0.52	—	0.52	0.48	—	0.48	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.32	2.13	0.01	0.05	—	0.05	0.04	—	0.04	—	607	607	0.02	< 0.005	—	609
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.24	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	100	100	< 0.005	< 0.005	—	101
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.47	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	195	195	< 0.005	< 0.005	< 0.005	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	18.6	18.6	< 0.005	< 0.005	0.01	18.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2039) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.52	2.12	13.8	22.7	0.06	0.50	—	0.50	0.46	—	0.46	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.19	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	—	90.4	90.4	< 0.005	< 0.005	—	90.7
Dust From Material Movement	—	—	—	—	—	—	0.13	0.13	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.0	15.0	< 0.005	< 0.005	—	15.0

Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.45	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	194	194	< 0.005	< 0.005	< 0.005	194
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	< 0.005	2.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2039) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.52	2.12	13.8	22.7	0.06	0.50	—	0.50	0.46	—	0.46	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.19	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	—	90.4	90.4	< 0.005	< 0.005	—	90.7
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.0	15.0	< 0.005	< 0.005	—	15.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.45	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	194	194	< 0.005	< 0.005	< 0.005	194
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	< 0.005	2.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2039) - Unmitigated

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

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

Off-Road Equipment	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.56	4.72	8.64	0.02	0.10	—	0.10	0.09	—	0.09	—	1,670	1,670	0.07	0.01	—	1,676
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.86	1.58	< 0.005	0.02	—	0.02	0.02	—	0.02	—	276	276	0.01	< 0.005	—	277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.40	0.28	8.17	0.00	0.00	2.93	2.93	0.00	0.69	0.69	—	2,643	2,643	0.02	0.02	1.71	2,650
Vendor	0.08	0.07	2.27	0.80	0.02	0.02	0.83	0.85	0.02	0.23	0.25	—	2,073	2,073	0.03	0.32	0.86	2,170

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.37	0.39	5.43	0.00	0.00	2.93	2.93	0.00	0.69	0.69	—	2,324	2,324	0.03	0.02	0.04	2,329
Vendor	0.07	0.06	2.44	0.83	0.02	0.02	0.83	0.85	0.02	0.23	0.25	—	2,076	2,076	0.03	0.32	0.02	2,172
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.26	0.20	4.20	0.00	0.00	2.02	2.02	0.00	0.47	0.47	—	1,681	1,681	0.01	0.01	0.52	1,685
Vendor	0.05	0.04	1.66	0.57	0.02	0.02	0.57	0.59	0.02	0.16	0.17	—	1,445	1,445	0.02	0.22	0.26	1,512
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.77	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	278	278	< 0.005	< 0.005	0.09	279
Vendor	0.01	0.01	0.30	0.10	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	239	239	< 0.005	0.04	0.04	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2039) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.56	4.72	8.64	0.02	0.10	—	0.10	0.09	—	0.09	—	1,670	1,670	0.07	0.01	—	1,676
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.86	1.58	< 0.005	0.02	—	0.02	0.02	—	0.02	—	276	276	0.01	< 0.005	—	277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.40	0.28	8.17	0.00	0.00	2.93	2.93	0.00	0.69	0.69	—	2,643	2,643	0.02	0.02	1.71	2,650
Vendor	0.08	0.07	2.27	0.80	0.02	0.02	0.83	0.85	0.02	0.23	0.25	—	2,073	2,073	0.03	0.32	0.86	2,170
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.37	0.39	5.43	0.00	0.00	2.93	2.93	0.00	0.69	0.69	—	2,324	2,324	0.03	0.02	0.04	2,329

Vendor	0.07	0.06	2.44	0.83	0.02	0.02	0.83	0.85	0.02	0.23	0.25	—	2,076	2,076	0.03	0.32	0.02	2,172
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.26	0.20	4.20	0.00	0.00	2.02	2.02	0.00	0.47	0.47	—	1,681	1,681	0.01	0.01	0.52	1,685
Vendor	0.05	0.04	1.66	0.57	0.02	0.02	0.57	0.59	0.02	0.16	0.17	—	1,445	1,445	0.02	0.22	0.26	1,512
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.77	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	278	278	< 0.005	< 0.005	0.09	279
Vendor	0.01	0.01	0.30	0.10	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	239	239	< 0.005	0.04	0.04	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2040) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	2.65	4.90	0.01	0.06	—	0.06	0.05	—	0.05	—	947	947	0.04	0.01	—	951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	0.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	157	157	0.01	< 0.005	—	157
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.38	0.27	7.96	0.00	0.00	2.93	2.93	0.00	0.69	0.69	—	2,627	2,627	0.02	0.02	1.45	2,634
Vendor	0.08	0.07	2.24	0.80	0.02	0.02	0.83	0.85	0.02	0.23	0.25	—	2,034	2,034	0.03	0.32	0.68	2,131
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.35	0.38	5.30	0.00	0.00	2.93	2.93	0.00	0.69	0.69	—	2,310	2,310	0.02	0.02	0.04	2,315
Vendor	0.07	0.06	2.41	0.80	0.02	0.02	0.83	0.85	0.02	0.23	0.25	—	2,036	2,036	0.03	0.32	0.02	2,133
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.14	0.11	2.30	0.00	0.00	1.15	1.15	0.00	0.27	0.27	—	948	948	0.01	0.01	0.25	950
Vendor	0.03	0.02	0.92	0.32	0.01	0.01	0.33	0.33	0.01	0.09	0.10	—	804	804	0.01	0.13	0.12	843

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.42	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	157	157	< 0.005	< 0.005	0.04	157
Vendor	0.01	< 0.005	0.17	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	133	133	< 0.005	0.02	0.02	140
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2040) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	2.65	4.90	0.01	0.06	—	0.06	0.05	—	0.05	—	947	947	0.04	0.01	—	951

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	0.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	157	157	0.01	< 0.005	—	157
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.38	0.27	7.96	0.00	0.00	2.93	2.93	0.00	0.69	0.69	—	2,627	2,627	0.02	0.02	1.45	2,634
Vendor	0.08	0.07	2.24	0.80	0.02	0.02	0.83	0.85	0.02	0.23	0.25	—	2,034	2,034	0.03	0.32	0.68	2,131
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.35	0.38	5.30	0.00	0.00	2.93	2.93	0.00	0.69	0.69	—	2,310	2,310	0.02	0.02	0.04	2,315
Vendor	0.07	0.06	2.41	0.80	0.02	0.02	0.83	0.85	0.02	0.23	0.25	—	2,036	2,036	0.03	0.32	0.02	2,133
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.14	0.11	2.30	0.00	0.00	1.15	1.15	0.00	0.27	0.27	—	948	948	0.01	0.01	0.25	950
Vendor	0.03	0.02	0.92	0.32	0.01	0.01	0.33	0.33	0.01	0.09	0.10	—	804	804	0.01	0.13	0.12	843
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.42	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	157	157	< 0.005	< 0.005	0.04	157
Vendor	0.01	< 0.005	0.17	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	133	133	< 0.005	0.02	0.02	140
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2040) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.27	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.71	0.71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.42	0.77	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	< 0.005	< 0.005	—	120
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.9	19.9	< 0.005	< 0.005	—	19.9
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.50	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	164	164	< 0.005	< 0.005	0.09	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	< 0.005	11.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.97	1.97	< 0.005	< 0.005	< 0.005	1.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2040) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.27	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.71	0.71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.42	0.77	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	< 0.005	< 0.005	—	120
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.9	19.9	< 0.005	< 0.005	—	19.9
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.50	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	164	164	< 0.005	< 0.005	0.09	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	< 0.005	11.9

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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.97	1.97	< 0.005	< 0.005	< 0.005	1.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2040) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	94.6	94.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134

Architectural Coatings	94.6	94.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
Architectural Coatings	7.52	7.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.76	1.76	< 0.005	< 0.005	—	1.76
Architectural Coatings	1.37	1.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.59	0.00	0.00	0.59	0.59	0.00	0.14	0.14	—	525	525	< 0.005	< 0.005	0.29	527
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.08	1.06	0.00	0.00	0.59	0.59	0.00	0.14	0.14	—	462	462	< 0.005	< 0.005	0.01	463
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	38.1	38.1	< 0.005	< 0.005	0.01	38.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.31	6.31	< 0.005	< 0.005	< 0.005	6.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2040) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	94.6	94.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	94.6	94.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
Architectural Coatings	7.52	7.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.76	1.76	< 0.005	< 0.005	—	1.76
Architectural Coatings	1.37	1.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.59	0.00	0.00	0.59	0.59	0.00	0.14	0.14	—	525	525	< 0.005	< 0.005	0.29	527
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.08	1.06	0.00	0.00	0.59	0.59	0.00	0.14	0.14	—	462	462	< 0.005	< 0.005	0.01	463
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	38.1	38.1	< 0.005	< 0.005	0.01	38.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.31	6.31	< 0.005	< 0.005	< 0.005	6.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.54	1.31	20.9	27.4	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	25,568	25,568	0.20	2.84	15.0	26,434
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	0.00
Total	1.54	1.31	20.9	27.4	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	25,568	25,568	0.20	2.84	15.0	26,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.46	1.23	22.6	19.7	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	24,672	24,672	0.20	2.86	0.39	25,530
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	0.00
Total	1.46	1.23	22.6	19.7	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	24,672	24,672	0.20	2.86	0.39	25,530
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.27	0.23	4.01	3.88	0.04	0.07	2.75	2.82	0.07	0.71	0.78	—	4,125	4,125	0.03	0.47	1.07	4,268
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	0.00
Total	0.27	0.23	4.01	3.88	0.04	0.07	2.75	2.82	0.07	0.71	0.78	—	4,125	4,125	0.03	0.47	1.07	4,268

4.1.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.54	1.31	20.9	27.4	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	25,568	25,568	0.20	2.84	15.0	26,434
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	0.00
Total	1.54	1.31	20.9	27.4	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	25,568	25,568	0.20	2.84	15.0	26,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.46	1.23	22.6	19.7	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	24,672	24,672	0.20	2.86	0.39	25,530
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	0.00
Total	1.46	1.23	22.6	19.7	0.24	0.38	15.2	15.6	0.37	3.95	4.32	—	24,672	24,672	0.20	2.86	0.39	25,530
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.27	0.23	4.01	3.88	0.04	0.07	2.75	2.82	0.07	0.71	0.78	—	4,125	4,125	0.03	0.47	1.07	4,268
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	0.00
Total	0.27	0.23	4.01	3.88	0.04	0.07	2.75	2.82	0.07	0.71	0.78	—	4,125	4,125	0.03	0.47	1.07	4,268

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,428	3,428	0.55	0.07	—	3,462
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	168	168	0.03	< 0.005	—	170
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,596	3,596	0.58	0.07	—	3,632
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,428	3,428	0.55	0.07	—	3,462
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	168	168	0.03	< 0.005	—	170
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,596	3,596	0.58	0.07	—	3,632
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	568	568	0.09	0.01	—	573
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.8	27.8	< 0.005	< 0.005	—	28.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	595	595	0.10	0.01	—	601

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,428	3,428	0.55	0.07	—	3,462
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	168	168	0.03	< 0.005	—	170
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,596	3,596	0.58	0.07	—	3,632
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,428	3,428	0.55	0.07	—	3,462
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	168	168	0.03	< 0.005	—	170
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,596	3,596	0.58	0.07	—	3,632
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	568	568	0.09	0.01	—	573
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.8	27.8	< 0.005	< 0.005	—	28.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	595	595	0.10	0.01	—	601

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	976	976	0.09	< 0.005	—	979
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
Total	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	976	976	0.09	< 0.005	—	979
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	976	976	0.09	< 0.005	—	979
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
Total	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	976	976	0.09	< 0.005	—	979
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	162	162	0.01	< 0.005	—	162
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
Total	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	162	162	0.01	< 0.005	—	162

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	976	976	0.09	< 0.005	—	979
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
Total	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	976	976	0.09	< 0.005	—	979
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	976	976	0.09	< 0.005	—	979
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
Total	0.09	0.05	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	—	976	976	0.09	< 0.005	—	979
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	162	162	0.01	< 0.005	—	162
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
Total	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	162	162	0.01	< 0.005	—	162

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.75	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.42	4.08	0.21	24.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	102	102	< 0.005	< 0.005	—	103
Total	5.20	4.86	0.21	24.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	102	102	< 0.005	< 0.005	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.75	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.78	0.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.40	0.37	0.02	2.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.34	8.34	< 0.005	< 0.005	—	8.37
Total	0.54	0.51	0.02	2.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.34	8.34	< 0.005	< 0.005	—	8.37

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.75	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.42	4.08	0.21	24.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	102	102	< 0.005	< 0.005	—	103
Total	5.20	4.86	0.21	24.8	< 0.005	0.04	—	0.04	0.03	—	0.03	—	102	102	< 0.005	< 0.005	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.75	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.78	0.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.40	0.37	0.02	2.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.34	8.34	< 0.005	< 0.005	—	8.37
Total	0.54	0.51	0.02	2.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.34	8.34	< 0.005	< 0.005	—	8.37

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	41.9	50.0	91.9	4.31	0.10	—	230
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	41.9	50.0	91.9	4.31	0.10	—	230

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	253	302	555	26.0	0.62	—	1,391
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	41.9	50.0	91.9	4.31	0.10	—	230
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	41.9	50.0	91.9	4.31	0.10	—	230

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168

4.5.2. Mitigated

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

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

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	289	0.00	289	28.9	0.00	—	1,012
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.79	0.00	—	168

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/22/2038	11/12/2038	5.00	16.0	—
Grading	Grading	11/15/2038	1/7/2039	5.00	40.0	—
Building Construction	Building Construction	1/10/2039	7/20/2040	5.00	400	—
Paving	Paving	7/23/2040	8/30/2040	5.00	29.0	—
Architectural Coating	Architectural Coating	8/31/2040	10/10/2040	5.00	29.0	—

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/Back	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40

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

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	240	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	93.6	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	48.0	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	240	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	93.6	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	48.0	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	856,800	285,600	20,606

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	24.0	0.00	—
Grading	—	—	120	0.00	—
Paving	0.00	0.00	0.00	0.00	7.88

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	2.48	100%
Parking Lot	5.40	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2038	0.00	204	0.03	< 0.005
2039	0.00	204	0.03	< 0.005
2040	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	868	868	868	316,902	19,967	19,967	19,967	7,287,830
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

Unrefrigerated Warehouse-No Rail	868	868	868	316,902	19,967	19,967	19,967	7,287,830
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	856,800	285,600	20,606

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)
Unrefrigerated Warehouse-No Rail	6,134,582	204	0.0330	0.0040	3,046,867
Parking Lot	94,786	204	0.0330	0.0040	0.00
Parking Lot	206,056	204	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)
Unrefrigerated Warehouse-No Rail	6,134,582	204	0.0330	0.0040	3,046,867
Parking Lot	94,786	204	0.0330	0.0040	0.00
Parking Lot	206,056	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	132,090,000	8,218,375
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	132,090,000	8,218,375
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	537	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	537	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

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

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P6 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P6
Construction Start Date	11/19/2030
Operational Year	2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	249	1000sqft	19.0	248,640	450,917	0.00	—	Phase 1 - Parcel 6

Parking Lot	212	Space	1.91	0.00	0.00	0.00	—	Standard Parking
Parking Lot	324	Space	2.92	0.00	0.00	0.00	—	Truck Parking (162 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	93.4	93.3	9.53	18.3	0.03	0.26	1.64	1.90	0.23	0.40	0.63	—	4,787	4,787	0.12	0.19	4.29	4,852
Mit.	93.4	93.3	9.53	18.3	0.03	0.26	1.64	1.90	0.23	0.40	0.63	—	4,787	4,787	0.12	0.19	4.29	4,852
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.53	2.97	25.3	29.0	0.06	1.07	19.9	20.9	0.98	10.2	11.1	—	6,811	6,811	0.27	0.24	0.13	6,836
Mit.	3.53	2.97	25.3	29.0	0.06	1.07	5.32	6.39	0.98	2.68	3.66	—	6,811	6,811	0.27	0.24	0.13	6,836

% Reduced	—	—	—	—	—	—	73%	69%	—	74%	67%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.05	3.95	4.72	8.31	0.02	0.13	0.87	0.94	0.12	0.38	0.45	—	2,242	2,242	0.06	0.09	0.87	2,271
Mit.	4.05	3.95	4.72	8.31	0.02	0.13	0.77	0.90	0.12	0.19	0.30	—	2,242	2,242	0.06	0.09	0.87	2,271
% Reduced	—	—	—	—	—	—	12%	5%	—	51%	32%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.74	0.72	0.86	1.52	< 0.005	0.02	0.16	0.17	0.02	0.07	0.08	—	371	371	0.01	0.02	0.14	376
Mit.	0.74	0.72	0.86	1.52	< 0.005	0.02	0.14	0.16	0.02	0.03	0.06	—	371	371	0.01	0.02	0.14	376
% Reduced	—	—	—	—	—	—	12%	5%	—	51%	32%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	93.4	93.3	9.53	18.3	0.03	0.26	1.64	1.90	0.23	0.40	0.63	—	4,787	4,787	0.12	0.19	4.29	4,852
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.53	2.97	25.3	29.0	0.06	1.07	19.9	20.9	0.98	10.2	11.1	—	6,811	6,811	0.27	0.24	0.13	6,836
2031	1.42	1.22	9.70	16.7	0.03	0.26	1.64	1.90	0.23	0.40	0.63	—	4,635	4,635	0.13	0.24	0.11	4,709
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.25	0.21	1.71	2.19	< 0.005	0.07	0.87	0.94	0.06	0.38	0.45	—	516	516	0.02	0.01	0.05	519
2031	4.05	3.95	4.72	8.31	0.02	0.13	0.77	0.90	0.12	0.19	0.30	—	2,242	2,242	0.06	0.09	0.87	2,271

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.05	0.04	0.31	0.40	< 0.005	0.01	0.16	0.17	0.01	0.07	0.08	—	85.4	85.4	< 0.005	< 0.005	0.01	85.9
2031	0.74	0.72	0.86	1.52	< 0.005	0.02	0.14	0.16	0.02	0.03	0.06	—	371	371	0.01	0.02	0.14	376

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	93.4	93.3	9.53	18.3	0.03	0.26	1.64	1.90	0.23	0.40	0.63	—	4,787	4,787	0.12	0.19	4.29	4,852
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.53	2.97	25.3	29.0	0.06	1.07	5.32	6.39	0.98	2.68	3.66	—	6,811	6,811	0.27	0.24	0.13	6,836
2031	1.42	1.22	9.70	16.7	0.03	0.26	1.64	1.90	0.23	0.40	0.63	—	4,635	4,635	0.13	0.24	0.11	4,709
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.25	0.21	1.71	2.19	< 0.005	0.07	0.26	0.33	0.06	0.11	0.17	—	516	516	0.02	0.01	0.05	519
2031	4.05	3.95	4.72	8.31	0.02	0.13	0.77	0.90	0.12	0.19	0.30	—	2,242	2,242	0.06	0.09	0.87	2,271
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.05	0.04	0.31	0.40	< 0.005	0.01	0.05	0.06	0.01	0.02	0.03	—	85.4	85.4	< 0.005	< 0.005	0.01	85.9
2031	0.74	0.72	0.86	1.52	< 0.005	0.02	0.14	0.16	0.02	0.03	0.06	—	371	371	0.01	0.02	0.14	376

2.4. Operations Emissions Compared Against Thresholds

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

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

Unmit.	3.21	2.90	11.0	25.3	0.12	0.24	6.63	6.87	0.22	1.72	1.95	236	14,929	15,165	24.3	1.74	24.1	16,316
Mit.	3.21	2.90	11.0	25.3	0.12	0.24	6.63	6.87	0.22	1.72	1.95	236	14,929	15,165	24.3	1.74	24.1	16,316
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.23	1.06	11.8	10.6	0.12	0.22	6.63	6.85	0.21	1.72	1.93	236	14,457	14,693	24.3	1.75	0.62	15,824
Mit.	1.23	1.06	11.8	10.6	0.12	0.22	6.63	6.85	0.21	1.72	1.93	236	14,457	14,693	24.3	1.75	0.62	15,824
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.19	1.95	11.5	16.7	0.12	0.23	6.56	6.79	0.22	1.70	1.92	236	14,596	14,832	24.3	1.75	10.4	15,971
Mit.	2.19	1.95	11.5	16.7	0.12	0.23	6.56	6.79	0.22	1.70	1.92	236	14,596	14,832	24.3	1.75	10.4	15,971
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.40	0.36	2.11	3.05	0.02	0.04	1.20	1.24	0.04	0.31	0.35	39.1	2,417	2,456	4.03	0.29	1.72	2,644
Mit.	0.40	0.36	2.11	3.05	0.02	0.04	1.20	1.24	0.04	0.31	0.35	39.1	2,417	2,456	4.03	0.29	1.72	2,644
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.90	0.75	10.6	14.2	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,728	12,728	0.13	1.44	24.1	13,183

Area	2.27	2.13	0.09	10.8	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.5	44.5	< 0.005	< 0.005	—	44.6
Energy	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	2,020	2,020	0.30	0.03	—	2,037
Water	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Total	3.21	2.90	11.0	25.3	0.12	0.24	6.63	6.87	0.22	1.72	1.95	236	14,929	15,165	24.3	1.74	24.1	16,316
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.84	0.69	11.5	10.3	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,300	12,300	0.13	1.45	0.62	12,735
Area	0.35	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	2,020	2,020	0.30	0.03	—	2,037
Water	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Total	1.23	1.06	11.8	10.6	0.12	0.22	6.63	6.85	0.21	1.72	1.93	236	14,457	14,693	24.3	1.75	0.62	15,824
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.70	11.1	11.1	0.12	0.19	6.56	6.75	0.18	1.70	1.89	—	12,417	12,417	0.13	1.44	10.4	12,861
Area	1.30	1.23	0.04	5.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	21.9	21.9	< 0.005	< 0.005	—	22.0
Energy	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	2,020	2,020	0.30	0.03	—	2,037
Water	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Total	2.19	1.95	11.5	16.7	0.12	0.23	6.56	6.79	0.22	1.70	1.92	236	14,596	14,832	24.3	1.75	10.4	15,971
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.16	0.13	2.03	2.02	0.02	0.03	1.20	1.23	0.03	0.31	0.34	—	2,056	2,056	0.02	0.24	1.72	2,129
Area	0.24	0.22	0.01	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.63	3.63	< 0.005	< 0.005	—	3.64
Energy	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	334	334	0.05	0.01	—	337
Water	—	—	—	—	—	—	—	—	—	—	—	18.2	22.6	40.8	1.87	0.04	—	101
Waste	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.08	0.00	—	73.0
Total	0.40	0.36	2.11	3.05	0.02	0.04	1.20	1.24	0.04	0.31	0.35	39.1	2,417	2,456	4.03	0.29	1.72	2,644

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.90	0.75	10.6	14.2	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,728	12,728	0.13	1.44	24.1	13,183
Area	2.27	2.13	0.09	10.8	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.5	44.5	< 0.005	< 0.005	—	44.6
Energy	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	2,020	2,020	0.30	0.03	—	2,037
Water	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Total	3.21	2.90	11.0	25.3	0.12	0.24	6.63	6.87	0.22	1.72	1.95	236	14,929	15,165	24.3	1.74	24.1	16,316
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.84	0.69	11.5	10.3	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,300	12,300	0.13	1.45	0.62	12,735
Area	0.35	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	2,020	2,020	0.30	0.03	—	2,037
Water	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Total	1.23	1.06	11.8	10.6	0.12	0.22	6.63	6.85	0.21	1.72	1.93	236	14,457	14,693	24.3	1.75	0.62	15,824
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.70	11.1	11.1	0.12	0.19	6.56	6.75	0.18	1.70	1.89	—	12,417	12,417	0.13	1.44	10.4	12,861
Area	1.30	1.23	0.04	5.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	21.9	21.9	< 0.005	< 0.005	—	22.0
Energy	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	2,020	2,020	0.30	0.03	—	2,037
Water	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Total	2.19	1.95	11.5	16.7	0.12	0.23	6.56	6.79	0.22	1.70	1.92	236	14,596	14,832	24.3	1.75	10.4	15,971
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.16	0.13	2.03	2.02	0.02	0.03	1.20	1.23	0.03	0.31	0.34	—	2,056	2,056	0.02	0.24	1.72	2,129
Area	0.24	0.22	0.01	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.63	3.63	< 0.005	< 0.005	—	3.64
Energy	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	334	334	0.05	0.01	—	337
Water	—	—	—	—	—	—	—	—	—	—	—	18.2	22.6	40.8	1.87	0.04	—	101
Waste	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.08	0.00	—	73.0
Total	0.40	0.36	2.11	3.05	0.02	0.04	1.20	1.24	0.04	0.31	0.35	39.1	2,417	2,456	4.03	0.29	1.72	2,644

3. Construction Emissions Details

3.1. Site Preparation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	2.92	25.2	28.4	0.05	1.07	—	1.07	0.98	—	0.98	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.06	0.48	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	102	102	< 0.005	< 0.005	—	102
Dust From Material Movement	—	—	—	—	—	—	0.38	0.38	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.61	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	188	188	< 0.005	0.01	0.01	190
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	< 0.005	3.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	2.92	25.2	28.4	0.05	1.07	—	1.07	0.98	—	0.98	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	102	102	< 0.005	< 0.005	—	102
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.9
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.61	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	188	188	< 0.005	0.01	0.01	190
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	< 0.005	3.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.23	2.72	21.7	26.9	0.06	0.88	—	0.88	0.81	—	0.81	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.07	1.32	< 0.005	0.04	—	0.04	0.04	—	0.04	—	325	325	0.01	< 0.005	—	326
Dust From Material Movement	—	—	—	—	—	—	0.45	0.45	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.02	0.19	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.9	53.9	< 0.005	< 0.005	—	54.0
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.70	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	215	215	< 0.005	0.01	0.01	217
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.01	11.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.84
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.23	2.72	21.7	26.9	0.06	0.88	—	0.88	0.81	—	0.81	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.07	1.32	< 0.005	0.04	—	0.04	0.04	—	0.04	—	325	325	0.01	< 0.005	—	326
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.19	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.9	53.9	< 0.005	< 0.005	—	54.0

Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.70	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	215	215	< 0.005	0.01	0.01	217
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.01	11.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.84
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2030) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.13	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.5	37.5	< 0.005	< 0.005	—	37.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.21	6.21	< 0.005	< 0.005	—	6.23
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.29	0.30	3.66	0.00	0.00	1.28	1.28	0.00	0.30	0.30	—	1,120	1,120	0.02	0.05	0.07	1,135
Vendor	0.04	0.03	1.34	0.42	0.01	0.02	0.36	0.38	0.02	0.10	0.12	—	1,176	1,176	0.01	0.18	0.05	1,229

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.2	18.2	< 0.005	< 0.005	0.02	18.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.4	18.4	< 0.005	< 0.005	0.01	19.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.02	3.02	< 0.005	< 0.005	< 0.005	3.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.05	3.05	< 0.005	< 0.005	< 0.005	3.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.13	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.5	37.5	< 0.005	< 0.005	—	37.7

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.21	6.21	< 0.005	< 0.005	—	6.23
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.29	0.30	3.66	0.00	0.00	1.28	1.28	0.00	0.30	0.30	—	1,120	1,120	0.02	0.05	0.07	1,135
Vendor	0.04	0.03	1.34	0.42	0.01	0.02	0.36	0.38	0.02	0.10	0.12	—	1,176	1,176	0.01	0.18	0.05	1,229
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.2	18.2	< 0.005	< 0.005	0.02	18.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.4	18.4	< 0.005	< 0.005	0.01	19.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.02	3.02	< 0.005	< 0.005	< 0.005	3.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.05	3.05	< 0.005	< 0.005	< 0.005	3.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2031) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.43	3.77	5.96	0.01	0.11	—	0.11	0.10	—	0.10	—	1,112	1,112	0.05	0.01	—	1,115
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.69	1.09	< 0.005	0.02	—	0.02	0.02	—	0.02	—	184	184	0.01	< 0.005	—	185
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.31	0.21	5.02	0.00	0.00	1.28	1.28	0.00	0.30	0.30	—	1,254	1,254	0.01	0.01	2.52	1,259
Vendor	0.05	0.03	1.20	0.39	0.01	0.02	0.36	0.38	0.01	0.10	0.11	—	1,135	1,135	0.01	0.17	1.77	1,188
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.27	0.30	3.44	0.00	0.00	1.28	1.28	0.00	0.30	0.30	—	1,102	1,102	0.02	0.05	0.06	1,116
Vendor	0.04	0.03	1.29	0.40	0.01	0.02	0.36	0.38	0.01	0.10	0.11	—	1,137	1,137	0.01	0.17	0.05	1,187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.12	1.73	0.00	0.00	0.59	0.59	0.00	0.14	0.14	—	531	531	0.01	< 0.005	0.50	532
Vendor	0.02	0.01	0.59	0.18	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05	—	527	527	0.01	0.08	0.36	551
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.32	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	87.9	87.9	< 0.005	< 0.005	0.08	88.1
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	87.2	87.2	< 0.005	0.01	0.06	91.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2031) - Mitigated

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

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

Off-Road Equipm	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.43	3.77	5.96	0.01	0.11	—	0.11	0.10	—	0.10	—	1,112	1,112	0.05	0.01	—	1,115
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.69	1.09	< 0.005	0.02	—	0.02	0.02	—	0.02	—	184	184	0.01	< 0.005	—	185
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.31	0.21	5.02	0.00	0.00	1.28	1.28	0.00	0.30	0.30	—	1,254	1,254	0.01	0.01	2.52	1,259
Vendor	0.05	0.03	1.20	0.39	0.01	0.02	0.36	0.38	0.01	0.10	0.11	—	1,135	1,135	0.01	0.17	1.77	1,188
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.27	0.30	3.44	0.00	0.00	1.28	1.28	0.00	0.30	0.30	—	1,102	1,102	0.02	0.05	0.06	1,116
Vendor	0.04	0.03	1.29	0.40	0.01	0.02	0.36	0.38	0.01	0.10	0.11	—	1,137	1,137	0.01	0.17	0.05	1,187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.12	1.73	0.00	0.00	0.59	0.59	0.00	0.14	0.14	—	531	531	0.01	< 0.005	0.50	532
Vendor	0.02	0.01	0.59	0.18	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05	—	527	527	0.01	0.08	0.36	551
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.32	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	87.9	87.9	< 0.005	< 0.005	0.08	88.1
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	87.2	87.2	< 0.005	0.01	0.06	91.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	6.13	9.88	0.01	0.21	—	0.21	0.19	—	0.19	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.97	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.8	53.8	< 0.005	< 0.005	—	54.0
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.91	8.91	< 0.005	< 0.005	—	8.94
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.72	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	180	180	< 0.005	< 0.005	0.36	181
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.85	5.85	< 0.005	< 0.005	0.01	5.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	0.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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 (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	6.13	9.88	0.01	0.21	—	0.21	0.19	—	0.19	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.97	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.8	53.8	< 0.005	< 0.005	—	54.0
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	< 0.005	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.91	8.91	< 0.005	< 0.005	—	8.94
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.72	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	180	180	< 0.005	< 0.005	0.36	181
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.85	5.85	< 0.005	< 0.005	0.01	5.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	0.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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 (2031) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.78	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	93.2	93.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.76	4.76	< 0.005	< 0.005	—	4.77
Architectural Coatings	3.32	3.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79	0.79	< 0.005	< 0.005	—	0.79
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	1.00	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	251	251	< 0.005	< 0.005	0.50	252
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.15	8.15	< 0.005	< 0.005	0.01	8.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.35	1.35	< 0.005	< 0.005	< 0.005	1.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Architectural Coating (2031) - Mitigated

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

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

Off-Road Equipment	0.12	0.10	0.78	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	93.2	93.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.76	4.76	< 0.005	< 0.005	—	4.77
Architectural Coatings	3.32	3.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.79	0.79	< 0.005	< 0.005	—	0.79
Architectural Coatings	0.61	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	1.00	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	251	251	< 0.005	< 0.005	0.50	252
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.15	8.15	< 0.005	< 0.005	0.01	8.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.35	1.35	< 0.005	< 0.005	< 0.005	1.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Unrefrigerated Wareho Rail	0.90	0.75	10.6	14.2	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,728	12,728	0.13	1.44	24.1	13,183
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	0.00
Total	0.90	0.75	10.6	14.2	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,728	12,728	0.13	1.44	24.1	13,183
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.84	0.69	11.5	10.3	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,300	12,300	0.13	1.45	0.62	12,735
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	0.00
Total	0.84	0.69	11.5	10.3	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,300	12,300	0.13	1.45	0.62	12,735
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	0.13	2.03	2.02	0.02	0.03	1.20	1.23	0.03	0.31	0.34	—	2,056	2,056	0.02	0.24	1.72	2,129
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	0.00
Total	0.16	0.13	2.03	2.02	0.02	0.03	1.20	1.23	0.03	0.31	0.34	—	2,056	2,056	0.02	0.24	1.72	2,129

4.1.2. Mitigated

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

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

Unrefrig Warehouse-No Rail	0.90	0.75	10.6	14.2	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,728	12,728	0.13	1.44	24.1	13,183
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	0.00
Total	0.90	0.75	10.6	14.2	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,728	12,728	0.13	1.44	24.1	13,183
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.84	0.69	11.5	10.3	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,300	12,300	0.13	1.45	0.62	12,735
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	0.00
Total	0.84	0.69	11.5	10.3	0.12	0.19	6.63	6.82	0.18	1.72	1.90	—	12,300	12,300	0.13	1.45	0.62	12,735
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	0.13	2.03	2.02	0.02	0.03	1.20	1.23	0.03	0.31	0.34	—	2,056	2,056	0.02	0.24	1.72	2,129
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	0.00
Total	0.16	0.13	2.03	2.02	0.02	0.03	1.20	1.23	0.03	0.31	0.34	—	2,056	2,056	0.02	0.24	1.72	2,129

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,492	1,492	0.24	0.03	—	1,507
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,595	1,595	0.26	0.03	—	1,611
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,492	1,492	0.24	0.03	—	1,507
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,595	1,595	0.26	0.03	—	1,611
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	247	247	0.04	< 0.005	—	250
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	17.0	17.0	< 0.005	< 0.005	—	17.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	0.04	0.01	—	267

4.2.2. Electricity Emissions By Land Use - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,492	1,492	0.24	0.03	—	1,507
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,595	1,595	0.26	0.03	—	1,611
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,492	1,492	0.24	0.03	—	1,507
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.02	< 0.005	—	104
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,595	1,595	0.26	0.03	—	1,611
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	247	247	0.04	< 0.005	—	250
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	17.0	17.0	< 0.005	< 0.005	—	17.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	0.04	0.01	—	267

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	425	425	0.04	< 0.005	—	426
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
Total	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	425	425	0.04	< 0.005	—	426
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	425	425	0.04	< 0.005	—	426
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
Total	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	425	425	0.04	< 0.005	—	426
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.6
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
Total	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.6

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	425	425	0.04	< 0.005	—	426
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
Total	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	425	425	0.04	< 0.005	—	426
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	425	425	0.04	< 0.005	—	426
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
Total	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	425	425	0.04	< 0.005	—	426
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.6
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
Total	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.6

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.93	1.78	0.09	10.8	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.5	44.5	< 0.005	< 0.005	—	44.6
Total	2.27	2.13	0.09	10.8	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.5	44.5	< 0.005	< 0.005	—	44.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.35	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.16	0.01	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.63	3.63	< 0.005	< 0.005	—	3.64
Total	0.24	0.22	0.01	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.63	3.63	< 0.005	< 0.005	—	3.64

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.93	1.78	0.09	10.8	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.5	44.5	< 0.005	< 0.005	—	44.6
Total	2.27	2.13	0.09	10.8	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.5	44.5	< 0.005	< 0.005	—	44.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.35	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.16	0.01	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.63	3.63	< 0.005	< 0.005	—	3.64
Total	0.24	0.22	0.01	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.63	3.63	< 0.005	< 0.005	—	3.64

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	18.2	22.6	40.8	1.87	0.04	—	101
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	18.2	22.6	40.8	1.87	0.04	—	101

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	110	137	247	11.3	0.27	—	610
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	18.2	22.6	40.8	1.87	0.04	—	101
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	18.2	22.6	40.8	1.87	0.04	—	101

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.08	0.00	—	73.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.08	0.00	—	73.0

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.08	0.00	—	73.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.08	0.00	—	73.0

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	11/19/2030	11/27/2030	5.00	7.00	—
Grading	Grading	11/28/2030	12/23/2030	5.00	18.0	—
Building Construction	Building Construction	12/24/2030	8/25/2031	5.00	175	—
Paving	Paving	8/26/2031	9/11/2031	5.00	13.0	—
Architectural Coating	Architectural Coating	9/12/2031	9/30/2031	5.00	13.0	—

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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	104	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	40.8	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	20.9	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	104	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	40.8	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	20.9	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	372,960	124,320	12,608

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	10.5	0.00	—
Grading	—	—	54.0	0.00	—
Paving	0.00	0.00	0.00	0.00	4.82

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	1.91	100%
Parking Lot	2.92	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2030	0.00	204	0.03	< 0.005
2031	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	378	378	378	137,945	8,691	8,691	8,691	3,172,350
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Unrefrigerated Warehouse-No Rail	378	378	378	137,945	8,691	8,691	8,691	3,172,350
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	372,960	124,320	12,608

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)

Unrefrigerated Warehouse-No Rail	2,670,348	204	0.0330	0.0040	1,326,283
Parking Lot	72,807	204	0.0330	0.0040	0.00
Parking Lot	111,270	204	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)
Unrefrigerated Warehouse-No Rail	2,670,348	204	0.0330	0.0040	1,326,283
Parking Lot	72,807	204	0.0330	0.0040	0.00
Parking Lot	111,270	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	57,498,000	7,354,305
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	57,498,000	7,354,305
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	234	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	234	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

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4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P7
Construction Start Date	10/1/2031
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	147	1000sqft	7.38	147,000	229,932	0.00	—	Phase 1 - Parcel 7

Parking Lot	160	Space	1.44	0.00	0.00	0.00	—	Standard Parking
Parking Lot	600	Space	5.40	0.00	0.00	0.00	—	Truck Parking (600)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	95.7	95.7	0.79	1.66	< 0.005	0.01	0.15	0.16	0.01	0.04	0.04	—	280	280	0.01	< 0.005	0.26	281
Mit.	95.7	95.7	0.79	1.66	< 0.005	0.01	0.15	0.16	0.01	0.04	0.04	—	280	280	0.01	< 0.005	0.26	281
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	95.7	95.7	24.3	28.5	0.06	1.04	19.9	20.9	0.96	10.2	11.1	—	6,807	6,807	0.27	0.15	0.07	6,832
Mit.	95.7	95.7	24.3	28.5	0.06	1.04	5.32	6.37	0.96	2.68	3.64	—	6,807	6,807	0.27	0.15	0.07	6,832
% Reduced	—	—	—	—	—	—	73%	70%	—	74%	67%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.35	2.32	2.19	3.31	0.01	0.08	0.69	0.76	0.07	0.28	0.35	—	794	794	0.03	0.02	0.16	800
Mit.	2.35	2.32	2.19	3.31	0.01	0.08	0.28	0.36	0.07	0.10	0.17	—	794	794	0.03	0.02	0.16	800
% Reduced	—	—	—	—	—	—	59%	53%	—	65%	52%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.43	0.42	0.40	0.60	< 0.005	0.01	0.13	0.14	0.01	0.05	0.06	—	131	131	< 0.005	< 0.005	0.03	132
Mit.	0.43	0.42	0.40	0.60	< 0.005	0.01	0.05	0.07	0.01	0.02	0.03	—	131	131	< 0.005	< 0.005	0.03	132
% Reduced	—	—	—	—	—	—	59%	53%	—	65%	52%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	95.7	95.7	0.79	1.66	< 0.005	0.01	0.15	0.16	0.01	0.04	0.04	—	280	280	0.01	< 0.005	0.26	281
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	3.46	2.91	24.3	28.5	0.06	1.04	19.9	20.9	0.96	10.2	11.1	—	6,807	6,807	0.27	0.15	0.07	6,832
2032	95.7	95.7	8.76	14.9	0.03	0.24	0.97	1.20	0.21	0.24	0.45	—	3,688	3,688	0.11	0.14	0.06	3,733
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.32	0.27	2.19	3.31	0.01	0.08	0.69	0.76	0.07	0.28	0.35	—	794	794	0.03	0.02	0.16	800
2032	2.35	2.32	1.45	2.51	< 0.005	0.04	0.15	0.19	0.04	0.04	0.07	—	595	595	0.02	0.02	0.15	601
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.06	0.05	0.40	0.60	< 0.005	0.01	0.13	0.14	0.01	0.05	0.06	—	131	131	< 0.005	< 0.005	0.03	132

2032	0.43	0.42	0.26	0.46	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	—	98.4	98.4	< 0.005	< 0.005	0.02	99.4

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	95.7	95.7	0.79	1.66	< 0.005	0.01	0.15	0.16	0.01	0.04	0.04	—	280	280	0.01	< 0.005	0.26	281
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	3.46	2.91	24.3	28.5	0.06	1.04	5.32	6.37	0.96	2.68	3.64	—	6,807	6,807	0.27	0.15	0.07	6,832
2032	95.7	95.7	8.76	14.9	0.03	0.24	0.97	1.20	0.21	0.24	0.45	—	3,688	3,688	0.11	0.14	0.06	3,733
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.32	0.27	2.19	3.31	0.01	0.08	0.28	0.36	0.07	0.10	0.17	—	794	794	0.03	0.02	0.16	800
2032	2.35	2.32	1.45	2.51	< 0.005	0.04	0.15	0.19	0.04	0.04	0.07	—	595	595	0.02	0.02	0.15	601
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.06	0.05	0.40	0.60	< 0.005	0.01	0.05	0.07	0.01	0.02	0.03	—	131	131	< 0.005	< 0.005	0.03	132
2032	0.43	0.42	0.26	0.46	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	—	98.4	98.4	< 0.005	< 0.005	0.02	99.4

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.39	1.29	0.26	6.57	< 0.005	0.03	3.36	3.39	0.02	0.84	0.86	140	1,386	1,525	14.3	0.18	—	1,937
Mit.	1.39	1.29	0.26	6.57	< 0.005	0.03	3.36	3.39	0.02	0.84	0.86	140	1,386	1,525	14.3	0.18	—	1,937

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	0.24	0.21	0.18	< 0.005	0.02	3.36	3.37	0.02	0.84	0.86	140	1,359	1,499	14.3	0.18	—	1,911
Mit.	0.26	0.24	0.21	0.18	< 0.005	0.02	3.36	3.37	0.02	0.84	0.86	140	1,359	1,499	14.3	0.18	—	1,911
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.82	0.76	0.24	3.33	< 0.005	0.02	3.32	3.34	0.02	0.83	0.85	140	1,372	1,512	14.3	0.18	—	1,924
Mit.	0.82	0.76	0.24	3.33	< 0.005	0.02	3.32	3.34	0.02	0.83	0.85	140	1,372	1,512	14.3	0.18	—	1,924
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.14	0.04	0.61	< 0.005	< 0.005	0.61	0.61	< 0.005	0.15	0.16	23.1	227	250	2.37	0.03	—	319
Mit.	0.15	0.14	0.04	0.61	< 0.005	< 0.005	0.61	0.61	< 0.005	0.15	0.16	23.1	227	250	2.37	0.03	—	319
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Area	1.37	1.28	0.05	6.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.3	26.3	< 0.005	< 0.005	—	26.4
Energy	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,279	1,279	0.19	0.02	—	1,290

Water	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Waste	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Total	1.39	1.29	0.26	6.57	< 0.005	0.03	3.36	3.39	0.02	0.84	0.86	140	1,386	1,525	14.3	0.18	—	1,937
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Area	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,279	1,279	0.19	0.02	—	1,290
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Waste	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Total	0.26	0.24	0.21	0.18	< 0.005	0.02	3.36	3.37	0.02	0.84	0.86	140	1,359	1,499	14.3	0.18	—	1,911
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	—	3.32	3.32	—	0.83	0.83	—	—	—	—	—	—	—
Area	0.79	0.75	0.03	3.15	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	13.0	13.0	< 0.005	< 0.005	—	13.0
Energy	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,279	1,279	0.19	0.02	—	1,290
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Waste	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Total	0.82	0.76	0.24	3.33	< 0.005	0.02	3.32	3.34	0.02	0.83	0.85	140	1,372	1,512	14.3	0.18	—	1,924
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	—	0.61	0.61	—	0.15	0.15	—	—	—	—	—	—	—
Area	0.14	0.14	< 0.005	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.15	2.15	< 0.005	< 0.005	—	2.15
Energy	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	212	212	0.03	< 0.005	—	214
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	13.2	24.0	1.11	0.03	—	59.6
Waste	—	—	—	—	—	—	—	—	—	—	—	12.3	0.00	12.3	1.23	0.00	—	43.1
Total	0.15	0.14	0.04	0.61	< 0.005	< 0.005	0.61	0.61	< 0.005	0.15	0.16	23.1	227	250	2.37	0.03	—	319

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Area	1.37	1.28	0.05	6.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.3	26.3	< 0.005	< 0.005	—	26.4
Energy	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,279	1,279	0.19	0.02	—	1,290
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Waste	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Total	1.39	1.29	0.26	6.57	< 0.005	0.03	3.36	3.39	0.02	0.84	0.86	140	1,386	1,525	14.3	0.18	—	1,937
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Area	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,279	1,279	0.19	0.02	—	1,290
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Waste	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Total	0.26	0.24	0.21	0.18	< 0.005	0.02	3.36	3.37	0.02	0.84	0.86	140	1,359	1,499	14.3	0.18	—	1,911
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	—	3.32	3.32	—	0.83	0.83	—	—	—	—	—	—	—
Area	0.79	0.75	0.03	3.15	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	13.0	13.0	< 0.005	< 0.005	—	13.0
Energy	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,279	1,279	0.19	0.02	—	1,290
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Waste	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Total	0.82	0.76	0.24	3.33	< 0.005	0.02	3.32	3.34	0.02	0.83	0.85	140	1,372	1,512	14.3	0.18	—	1,924
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	—	0.61	0.61	—	0.15	0.15	—	—	—	—	—	—	—

Area	0.14	0.14	< 0.005	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.15	2.15	< 0.005	< 0.005	—	2.15
Energy	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	212	212	0.03	< 0.005	—	214
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	13.2	24.0	1.11	0.03	—	59.6
Waste	—	—	—	—	—	—	—	—	—	—	—	12.3	0.00	12.3	1.23	0.00	—	43.1
Total	0.15	0.14	0.04	0.61	< 0.005	< 0.005	0.61	0.61	< 0.005	0.15	0.16	23.1	227	250	2.37	0.03	—	319

3. Construction Emissions Details

3.1. Site Preparation (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.41	2.87	24.3	27.9	0.05	1.04	—	1.04	0.96	—	0.96	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.33	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.5	72.5	< 0.005	< 0.005	—	72.8

Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.58	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	185	185	< 0.005	0.01	0.01	187
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.63	2.63	< 0.005	< 0.005	< 0.005	2.64
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.44

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.41	2.87	24.3	27.9	0.05	1.04	—	1.04	0.96	—	0.96	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.33	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.58	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	185	185	< 0.005	0.01	0.01	187
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.63	2.63	< 0.005	< 0.005	< 0.005	2.64
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.17	2.66	20.6	26.6	0.06	0.86	—	0.86	0.79	—	0.79	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.62	0.80	< 0.005	0.03	—	0.03	0.02	—	0.02	—	199	199	0.01	< 0.005	—	199
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.06	0.66	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	211	211	< 0.005	0.01	0.01	214
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.61	6.61	< 0.005	< 0.005	0.01	6.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2031) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.17	2.66	20.6	26.6	0.06	0.86	—	0.86	0.79	—	0.79	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.62	0.80	< 0.005	0.03	—	0.03	0.02	—	0.02	—	199	199	0.01	< 0.005	—	199
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.06	0.66	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	211	211	< 0.005	0.01	0.01	214
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.61	6.61	< 0.005	< 0.005	0.01	6.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2031) - Unmitigated

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

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

Off-Roa Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.15	0.13	1.11	1.76	< 0.005	0.03	—	0.03	0.03	—	0.03	—	328	328	0.01	< 0.005	—	329
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.02	0.20	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.4	54.4	< 0.005	< 0.005	—	54.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.18	2.04	0.00	0.00	0.75	0.75	0.00	0.18	0.18	—	652	652	0.01	0.03	0.04	660
Vendor	0.03	0.02	0.76	0.24	0.01	0.01	0.21	0.23	0.01	0.06	0.06	—	672	672	0.01	0.10	0.03	702
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.30	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	92.7	92.7	< 0.005	< 0.005	0.09	93.0
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	92.0	92.0	< 0.005	0.01	0.06	96.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.01	15.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.2	15.2	< 0.005	< 0.005	0.01	15.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.11	1.76	< 0.005	0.03	—	0.03	0.03	—	0.03	—	328	328	0.01	< 0.005	—	329
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.4	54.4	< 0.005	< 0.005	—	54.5

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.18	2.04	0.00	0.00	0.75	0.75	0.00	0.18	0.18	—	652	652	0.01	0.03	0.04	660
Vendor	0.03	0.02	0.76	0.24	0.01	0.01	0.21	0.23	0.01	0.06	0.06	—	672	672	0.01	0.10	0.03	702
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.30	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	92.7	92.7	< 0.005	< 0.005	0.09	93.0
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	92.0	92.0	< 0.005	0.01	0.06	96.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.01	15.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.2	15.2	< 0.005	< 0.005	0.01	15.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2032) - Unmitigated

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

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

Off-Roa Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.16	0.13	1.17	1.90	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	358
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.02	0.21	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	59.0	59.0	< 0.005	< 0.005	—	59.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.15	1.91	0.00	0.00	0.75	0.75	0.00	0.18	0.18	—	642	642	0.01	0.03	0.03	650
Vendor	0.02	0.02	0.74	0.23	0.01	0.01	0.21	0.23	0.01	0.06	0.06	—	650	650	0.01	0.09	0.02	678
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.31	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	99.1	99.1	< 0.005	< 0.005	0.08	99.4
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.5	96.5	< 0.005	0.01	0.06	101
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.01	16.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.0	16.0	< 0.005	< 0.005	0.01	16.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.17	1.90	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	358
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	59.0	59.0	< 0.005	< 0.005	—	59.2

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.15	1.91	0.00	0.00	0.75	0.75	0.00	0.18	0.18	—	642	642	0.01	0.03	0.03	650
Vendor	0.02	0.02	0.74	0.23	0.01	0.01	0.21	0.23	0.01	0.06	0.06	—	650	650	0.01	0.09	0.02	678
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.31	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	99.1	99.1	< 0.005	< 0.005	0.08	99.4
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.5	96.5	< 0.005	0.01	0.06	101
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.01	16.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.0	16.0	< 0.005	< 0.005	0.01	16.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2032) - Unmitigated

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

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

Off-Roa Equipment	0.72	0.61	6.00	9.86	0.01	0.20	—	0.20	0.18	—	0.18	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.24	2.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.01	0.13	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.1	33.1	< 0.005	< 0.005	—	33.2
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.48	5.48	< 0.005	< 0.005	—	5.50
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.46	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	156	156	< 0.005	0.01	0.01	158
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.55	3.55	< 0.005	< 0.005	< 0.005	3.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	< 0.005	0.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Paving (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.61	6.00	9.86	0.01	0.20	—	0.20	0.18	—	0.18	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.24	2.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.13	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.1	33.1	< 0.005	< 0.005	—	33.2
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.48	5.48	< 0.005	< 0.005	—	5.50
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.46	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	156	156	< 0.005	0.01	0.01	158
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.55	3.55	< 0.005	< 0.005	< 0.005	3.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	< 0.005	0.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.77	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.6	95.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.77	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.6	95.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.93	2.93	< 0.005	< 0.005	—	2.94
Architectural Coatings	2.09	2.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.48	0.48	< 0.005	< 0.005	—	0.49
Architectural Coatings	0.38	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.56	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	0.26	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.38	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	128	128	< 0.005	0.01	0.01	130
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.92	2.92	< 0.005	< 0.005	< 0.005	2.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.48

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Architectural Coating (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.77	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.6	95.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.77	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.6	95.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.93	2.93	< 0.005	< 0.005	—	2.94
Architectural Coatings	2.09	2.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.48	0.48	< 0.005	< 0.005	—	0.49
Architectural Coatings	0.38	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.56	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	0.26	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.38	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	128	128	< 0.005	0.01	0.01	130
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.92	2.92	< 0.005	< 0.005	< 0.005	2.93

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	0.61	0.61	—	0.15	0.15	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	0.61	0.61	—	0.15	0.15	—	—	—	—	—	—	—

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	3.36	3.36	—	0.84	0.84	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	0.61	0.61	—	0.15	0.15	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	0.61	0.61	—	0.15	0.15	—	—	—	—	—	—	—

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	882	882	0.14	0.02	—	891
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	146	146	0.02	< 0.005	—	147
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,028	1,028	0.17	0.02	—	1,038
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	882	882	0.14	0.02	—	891
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	146	146	0.02	< 0.005	—	147
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,028	1,028	0.17	0.02	—	1,038
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	146	146	0.02	< 0.005	—	148
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	24.1	24.1	< 0.005	< 0.005	—	24.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	170	170	0.03	< 0.005	—	172

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	882	882	0.14	0.02	—	891
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	146	146	0.02	< 0.005	—	147
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,028	1,028	0.17	0.02	—	1,038
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	882	882	0.14	0.02	—	891
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	146	146	0.02	< 0.005	—	147
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,028	1,028	0.17	0.02	—	1,038
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	146	146	0.02	< 0.005	—	148
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	24.1	24.1	< 0.005	< 0.005	—	24.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	170	170	0.03	< 0.005	—	172

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	251	251	0.02	< 0.005	—	252
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
Total	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	251	251	0.02	< 0.005	—	252
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	251	251	0.02	< 0.005	—	252
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
Total	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	251	251	0.02	< 0.005	—	252
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.6	41.6	< 0.005	< 0.005	—	41.7
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
Total	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.6	41.6	< 0.005	< 0.005	—	41.7

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	251	251	0.02	< 0.005	—	252
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
Total	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	251	251	0.02	< 0.005	—	252
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Wareho Rail	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	251	251	0.02	< 0.005	—	252
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
Total	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	251	251	0.02	< 0.005	—	252
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.6	41.6	< 0.005	< 0.005	—	41.7
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
Total	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.6	41.6	< 0.005	< 0.005	—	41.7

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.21	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipm	1.14	1.05	0.05	6.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.3	26.3	< 0.005	< 0.005	—	26.4
Total	1.37	1.28	0.05	6.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.3	26.3	< 0.005	< 0.005	—	26.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.21	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.09	< 0.005	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.15	2.15	< 0.005	< 0.005	—	2.15
Total	0.14	0.14	< 0.005	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.15	2.15	< 0.005	< 0.005	—	2.15

4.3.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.21	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.14	1.05	0.05	6.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.3	26.3	< 0.005	< 0.005	—	26.4
Total	1.37	1.28	0.05	6.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.3	26.3	< 0.005	< 0.005	—	26.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.21	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.10	0.09	< 0.005	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.15	2.15	< 0.005	< 0.005	—	2.15
Total	0.14	0.14	< 0.005	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.15	2.15	< 0.005	< 0.005	—	2.15

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	10.8	13.2	24.0	1.11	0.03	—	59.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	13.2	24.0	1.11	0.03	—	59.6

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	79.9	145	6.69	0.16	—	360
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	10.8	13.2	24.0	1.11	0.03	—	59.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	13.2	24.0	1.11	0.03	—	59.6

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	12.3	0.00	12.3	1.23	0.00	—	43.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.3	0.00	12.3	1.23	0.00	—	43.1

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	74.5	0.00	74.5	7.44	0.00	—	261

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	12.3	0.00	12.3	1.23	0.00	—	43.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.3	0.00	12.3	1.23	0.00	—	43.1

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.6.2. Mitigated

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

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/1/2031	10/7/2031	5.00	5.00	—
Grading	Grading	10/8/2031	10/22/2031	5.00	11.0	—
Building Construction	Building Construction	10/23/2031	3/16/2032	5.00	104	—
Paving	Paving	3/17/2032	3/26/2032	5.00	8.00	—
Architectural Coating	Architectural Coating	3/29/2032	4/7/2032	5.00	8.00	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	61.7	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	24.1	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	12.3	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	61.7	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	24.1	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	12.3	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	220,500	73,500	17,877

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	7.50	0.00	—
Grading	—	—	33.0	0.00	—
Paving	0.00	0.00	0.00	0.00	6.84

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	1.44	100%
Parking Lot	5.40	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O

2031	0.00	204	0.03	< 0.005
2032	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	223	223	223	81,556	5,138	5,138	5,138	1,875,545
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Unrefrigerated Warehouse-No Rail	223	223	223	81,556	5,138	5,138	5,138	1,875,545
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)

0	0.00	220,500	73,500	17,877

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)
Unrefrigerated Warehouse-No Rail	1,578,753	204	0.0330	0.0040	784,120
Parking Lot	54,948	204	0.0330	0.0040	0.00
Parking Lot	206,056	204	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)
Unrefrigerated Warehouse-No Rail	1,578,753	204	0.0330	0.0040	784,120
Parking Lot	54,948	204	0.0330	0.0040	0.00

Parking Lot	206,056	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	33,993,750	3,750,114
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	33,993,750	3,750,114
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	138	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	138	—

Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

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

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P8 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P8
Construction Start Date	4/8/2032
Operational Year	2034
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	772	1000sqft	36.2	771,600	508,028	0.00	—	Phase 1 - Parcel 8

Parking Lot	416	Space	3.74	0.00	0.00	0.00	—	Standard Parking
Parking Lot	848	Space	7.63	0.00	0.00	0.00	—	Truck Parking (424 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.27	2.75	22.3	28.7	0.06	0.93	19.9	20.8	0.85	10.2	11.0	—	9,635	9,635	0.27	0.53	11.5	9,809
Mit.	3.27	2.75	22.3	28.7	0.06	0.93	5.32	6.25	0.85	2.68	3.53	—	9,635	9,635	0.27	0.53	11.5	9,809
% Reduced	—	—	—	—	—	—	73%	70%	—	74%	68%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	95.5	95.5	12.6	24.0	0.05	0.28	5.09	5.37	0.24	1.24	1.47	—	9,174	9,174	0.19	0.66	0.30	9,375
Mit.	95.5	95.5	12.6	24.0	0.05	0.28	5.09	5.37	0.24	1.24	1.47	—	9,174	9,174	0.19	0.66	0.30	9,375

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.2	11.1	8.57	17.3	0.04	0.26	4.16	4.42	0.23	1.53	1.76	—	6,530	6,530	0.12	0.38	3.05	6,650
Mit.	11.2	11.1	8.57	17.3	0.04	0.26	3.59	3.76	0.23	0.87	1.03	—	6,530	6,530	0.12	0.38	3.05	6,650
% Reduced	—	—	—	—	—	—	14%	15%	—	43%	42%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.05	2.03	1.56	3.17	0.01	0.05	0.76	0.81	0.04	0.28	0.32	—	1,081	1,081	0.02	0.06	0.51	1,101
Mit.	2.05	2.03	1.56	3.17	0.01	0.05	0.66	0.69	0.04	0.16	0.19	—	1,081	1,081	0.02	0.06	0.51	1,101
% Reduced	—	—	—	—	—	—	14%	15%	—	43%	42%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	3.27	2.75	22.3	28.7	0.06	0.93	19.9	20.8	0.85	10.2	11.0	—	9,635	9,635	0.27	0.53	11.5	9,809
2033	2.05	1.82	11.8	27.8	0.05	0.23	5.09	5.32	0.22	1.24	1.46	—	9,472	9,472	0.18	0.53	9.92	9,645
2034	1.99	1.76	11.5	27.1	0.05	0.22	5.09	5.31	0.21	1.24	1.45	—	9,320	9,320	0.17	0.53	8.49	9,492
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	2.02	1.78	12.6	24.0	0.05	0.28	5.09	5.37	0.24	1.24	1.47	—	9,174	9,174	0.19	0.66	0.30	9,375
2033	1.97	1.73	12.1	23.4	0.05	0.23	5.09	5.32	0.22	1.24	1.46	—	9,017	9,017	0.18	0.53	0.26	9,181
2034	95.5	95.5	11.8	22.8	0.05	0.22	5.09	5.31	0.21	1.24	1.45	—	8,872	8,872	0.18	0.53	0.22	9,036

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	1.30	1.12	8.12	13.4	0.03	0.26	4.16	4.42	0.23	1.53	1.76	—	4,291	4,291	0.11	0.18	1.61	4,349
2033	1.42	1.25	8.57	17.3	0.04	0.17	3.59	3.76	0.15	0.87	1.03	—	6,530	6,530	0.12	0.38	3.05	6,650
2034	11.2	11.1	6.01	12.1	0.03	0.12	2.37	2.49	0.11	0.58	0.69	—	4,314	4,314	0.09	0.24	1.71	4,390
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.24	0.20	1.48	2.45	0.01	0.05	0.76	0.81	0.04	0.28	0.32	—	710	710	0.02	0.03	0.27	720
2033	0.26	0.23	1.56	3.17	0.01	0.03	0.66	0.69	0.03	0.16	0.19	—	1,081	1,081	0.02	0.06	0.51	1,101
2034	2.05	2.03	1.10	2.20	< 0.005	0.02	0.43	0.45	0.02	0.11	0.13	—	714	714	0.01	0.04	0.28	727

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	3.27	2.75	22.3	28.7	0.06	0.93	5.32	6.25	0.85	2.68	3.53	—	9,635	9,635	0.27	0.53	11.5	9,809
2033	2.05	1.82	11.8	27.8	0.05	0.23	5.09	5.32	0.22	1.24	1.46	—	9,472	9,472	0.18	0.53	9.92	9,645
2034	1.99	1.76	11.5	27.1	0.05	0.22	5.09	5.31	0.21	1.24	1.45	—	9,320	9,320	0.17	0.53	8.49	9,492
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	2.02	1.78	12.6	24.0	0.05	0.28	5.09	5.37	0.24	1.24	1.47	—	9,174	9,174	0.19	0.66	0.30	9,375
2033	1.97	1.73	12.1	23.4	0.05	0.23	5.09	5.32	0.22	1.24	1.46	—	9,017	9,017	0.18	0.53	0.26	9,181
2034	95.5	95.5	11.8	22.8	0.05	0.22	5.09	5.31	0.21	1.24	1.45	—	8,872	8,872	0.18	0.53	0.22	9,036
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	1.30	1.12	8.12	13.4	0.03	0.26	2.30	2.56	0.23	0.69	0.93	—	4,291	4,291	0.11	0.18	1.61	4,349
2033	1.42	1.25	8.57	17.3	0.04	0.17	3.59	3.76	0.15	0.87	1.03	—	6,530	6,530	0.12	0.38	3.05	6,650
2034	11.2	11.1	6.01	12.1	0.03	0.12	2.37	2.49	0.11	0.58	0.69	—	4,314	4,314	0.09	0.24	1.71	4,390

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.24	0.20	1.48	2.45	0.01	0.05	0.42	0.47	0.04	0.13	0.17	—	710	710	0.02	0.03	0.27	720
2033	0.26	0.23	1.56	3.17	0.01	0.03	0.66	0.69	0.03	0.16	0.19	—	1,081	1,081	0.02	0.06	0.51	1,101
2034	2.05	2.03	1.10	2.20	< 0.005	0.02	0.43	0.45	0.02	0.11	0.13	—	714	714	0.01	0.04	0.28	727

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.65	8.74	32.1	75.1	0.36	0.71	20.6	21.3	0.67	5.34	6.01	733	43,876	44,608	75.4	5.10	50.8	48,064
Mit.	9.65	8.74	32.1	75.1	0.36	0.71	20.6	21.3	0.67	5.34	6.01	733	43,876	44,608	75.4	5.10	50.8	48,064
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.52	3.07	34.3	30.2	0.35	0.65	20.6	21.2	0.62	5.34	5.96	733	42,467	43,200	75.4	5.13	1.32	46,615
Mit.	3.52	3.07	34.3	30.2	0.35	0.65	20.6	21.2	0.62	5.34	5.96	733	42,467	43,200	75.4	5.13	1.32	46,615
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.50	5.82	33.6	49.1	0.35	0.68	20.4	21.0	0.64	5.28	5.93	733	42,883	43,616	75.4	5.11	22.0	47,047
Mit.	6.50	5.82	33.6	49.1	0.35	0.68	20.4	21.0	0.64	5.28	5.93	733	42,883	43,616	75.4	5.11	22.0	47,047
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.19	1.06	6.13	8.96	0.06	0.12	3.72	3.84	0.12	0.96	1.08	121	7,100	7,221	12.5	0.85	3.63	7,789

Mit.	1.19	1.06	6.13	8.96	0.06	0.12	3.72	3.84	0.12	0.96	1.08	121	7,100	7,221	12.5	0.85	3.63	7,789
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.50	2.10	30.8	40.6	0.35	0.56	20.6	21.1	0.54	5.34	5.88	—	37,141	37,141	0.34	4.16	50.8	38,439
Area	7.03	6.57	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	9.65	8.74	32.1	75.1	0.36	0.71	20.6	21.3	0.67	5.34	6.01	733	43,876	44,608	75.4	5.10	50.8	48,064
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.34	1.95	33.2	29.3	0.34	0.56	20.6	21.1	0.54	5.34	5.88	—	35,870	35,870	0.35	4.19	1.32	37,128
Area	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	3.52	3.07	34.3	30.2	0.35	0.65	20.6	21.2	0.62	5.34	5.96	733	42,467	43,200	75.4	5.13	1.32	46,615
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.37	1.98	32.3	31.6	0.35	0.56	20.4	20.9	0.54	5.28	5.82	—	36,218	36,218	0.34	4.17	22.0	37,492
Area	4.01	3.78	0.14	16.5	< 0.005	0.03	—	0.03	0.02	—	0.02	—	68.1	68.1	< 0.005	< 0.005	—	68.3
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245

Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	6.50	5.82	33.6	49.1	0.35	0.68	20.4	21.0	0.64	5.28	5.93	733	42,883	43,616	75.4	5.11	22.0	47,047
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.43	0.36	5.90	5.77	0.06	0.10	3.72	3.82	0.10	0.96	1.06	—	5,996	5,996	0.06	0.69	3.63	6,207
Area	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Energy	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,025	1,025	0.15	0.02	—	1,034
Water	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310
Waste	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Total	1.19	1.06	6.13	8.96	0.06	0.12	3.72	3.84	0.12	0.96	1.08	121	7,100	7,221	12.5	0.85	3.63	7,789

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.50	2.10	30.8	40.6	0.35	0.56	20.6	21.1	0.54	5.34	5.88	—	37,141	37,141	0.34	4.16	50.8	38,439
Area	7.03	6.57	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	9.65	8.74	32.1	75.1	0.36	0.71	20.6	21.3	0.67	5.34	6.01	733	43,876	44,608	75.4	5.10	50.8	48,064
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.34	1.95	33.2	29.3	0.34	0.56	20.6	21.1	0.54	5.34	5.88	—	35,870	35,870	0.35	4.19	1.32	37,128
Area	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245

Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	3.52	3.07	34.3	30.2	0.35	0.65	20.6	21.2	0.62	5.34	5.96	733	42,467	43,200	75.4	5.13	1.32	46,615
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.37	1.98	32.3	31.6	0.35	0.56	20.4	20.9	0.54	5.28	5.82	—	36,218	36,218	0.34	4.17	22.0	37,492
Area	4.01	3.78	0.14	16.5	< 0.005	0.03	—	0.03	0.02	—	0.02	—	68.1	68.1	< 0.005	< 0.005	—	68.3
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	6.50	5.82	33.6	49.1	0.35	0.68	20.4	21.0	0.64	5.28	5.93	733	42,883	43,616	75.4	5.11	22.0	47,047
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.43	0.36	5.90	5.77	0.06	0.10	3.72	3.82	0.10	0.96	1.06	—	5,996	5,996	0.06	0.69	3.63	6,207
Area	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Energy	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,025	1,025	0.15	0.02	—	1,034
Water	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310
Waste	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Total	1.19	1.06	6.13	8.96	0.06	0.12	3.72	3.84	0.12	0.96	1.08	121	7,100	7,221	12.5	0.85	3.63	7,789

3. Construction Emissions Details

3.1. Site Preparation (2032) - Unmitigated

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

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

Off-Road	3.22	2.70	22.3	25.7	0.05	0.93	—	0.93	0.85	—	0.85	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.28	1.48	< 0.005	0.05	—	0.05	0.05	—	0.05	—	305	305	0.01	< 0.005	—	306
Dust From Material Movement	—	—	—	—	—	—	1.13	1.13	—	0.58	0.58	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	50.4	50.4	< 0.005	< 0.005	—	50.6
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.80	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	< 0.005	< 0.005	0.37	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	10.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.80	1.80	< 0.005	< 0.005	< 0.005	1.80
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.22	2.70	22.3	25.7	0.05	0.93	—	0.93	0.85	—	0.85	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.28	1.48	< 0.005	0.05	—	0.05	0.05	—	0.05	—	305	305	0.01	< 0.005	—	306
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	50.4	50.4	< 0.005	< 0.005	—	50.6
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.80	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	< 0.005	< 0.005	0.37	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	10.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.80	1.80	< 0.005	< 0.005	< 0.005	1.80
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.05	2.56	19.4	25.8	0.06	0.79	—	0.79	0.73	—	0.73	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	2.93	3.88	0.01	0.12	—	0.12	0.11	—	0.11	—	994	994	0.04	0.01	—	997
Dust From Material Movement	—	—	—	—	—	—	1.39	1.39	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.53	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	165	165	0.01	< 0.005	—	165
Dust From Material Movement	—	—	—	—	—	—	0.25	0.25	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.91	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	236	236	< 0.005	< 0.005	0.42	237
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	32.5	32.5	< 0.005	< 0.005	0.03	32.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.38	5.38	< 0.005	< 0.005	< 0.005	5.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.05	2.56	19.4	25.8	0.06	0.79	—	0.79	0.73	—	0.73	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.46	0.39	2.93	3.88	0.01	0.12	—	0.12	0.11	—	0.11	—	994	994	0.04	0.01	—	997
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.53	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	165	165	0.01	< 0.005	—	165
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.91	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	236	236	< 0.005	< 0.005	0.42	237
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	32.5	32.5	< 0.005	< 0.005	0.03	32.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.38	5.38	< 0.005	< 0.005	< 0.005	5.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.50	4.05	0.01	0.07	—	0.07	0.07	—	0.07	—	760	760	0.03	0.01	—	762
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.46	0.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	126	126	0.01	< 0.005	—	126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.91	0.90	0.65	14.7	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,832	3,832	0.04	0.02	6.82	3,846
Vendor	0.14	0.09	3.63	1.18	0.03	0.06	1.12	1.18	0.03	0.31	0.34	—	3,406	3,406	0.04	0.49	4.69	3,558
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.82	0.80	0.80	10.0	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,367	3,367	0.05	0.15	0.18	3,412
Vendor	0.13	0.08	3.89	1.22	0.03	0.06	1.12	1.18	0.03	0.31	0.34	—	3,410	3,410	0.04	0.49	0.12	3,557
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.26	0.21	3.47	0.00	0.00	1.24	1.24	0.00	0.29	0.29	—	1,108	1,108	0.01	0.01	0.94	1,112
Vendor	0.04	0.03	1.20	0.38	0.01	0.02	0.35	0.37	0.01	0.10	0.11	—	1,080	1,080	0.01	0.16	0.64	1,128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.63	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	184	184	< 0.005	< 0.005	0.15	184
Vendor	0.01	0.01	0.22	0.07	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	179	179	< 0.005	0.03	0.11	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.50	4.05	0.01	0.07	—	0.07	0.07	—	0.07	—	760	760	0.03	0.01	—	762
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.46	0.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	126	126	0.01	< 0.005	—	126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.91	0.90	0.65	14.7	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,832	3,832	0.04	0.02	6.82	3,846
Vendor	0.14	0.09	3.63	1.18	0.03	0.06	1.12	1.18	0.03	0.31	0.34	—	3,406	3,406	0.04	0.49	4.69	3,558
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.82	0.80	0.80	10.0	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,367	3,367	0.05	0.15	0.18	3,412
Vendor	0.13	0.08	3.89	1.22	0.03	0.06	1.12	1.18	0.03	0.31	0.34	—	3,410	3,410	0.04	0.49	0.12	3,557
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.26	0.21	3.47	0.00	0.00	1.24	1.24	0.00	0.29	0.29	—	1,108	1,108	0.01	0.01	0.94	1,112
Vendor	0.04	0.03	1.20	0.38	0.01	0.02	0.35	0.37	0.01	0.10	0.11	—	1,080	1,080	0.01	0.16	0.64	1,128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.63	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	184	184	< 0.005	< 0.005	0.15	184
Vendor	0.01	0.01	0.22	0.07	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	179	179	< 0.005	0.03	0.11	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2033) - Unmitigated

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

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

Off-Road	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	5.48	9.13	0.02	0.15	—	0.15	0.13	—	0.13	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	1.00	1.67	< 0.005	0.03	—	0.03	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.87	0.85	0.64	13.9	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,780	3,780	0.04	0.02	5.96	3,794
Vendor	0.14	0.09	3.49	1.15	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,294	3,294	0.04	0.49	3.96	3,446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.80	0.77	0.67	9.40	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,323	3,323	0.04	0.02	0.15	3,330
Vendor	0.13	0.08	3.75	1.19	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,298	3,298	0.04	0.49	0.10	3,446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.57	0.56	0.47	7.39	0.00	0.00	2.80	2.80	0.00	0.66	0.66	—	2,464	2,464	0.03	0.02	1.83	2,471
Vendor	0.10	0.06	2.62	0.83	0.02	0.02	0.80	0.82	0.02	0.22	0.24	—	2,354	2,354	0.03	0.35	1.22	2,461
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.08	1.35	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	408	408	< 0.005	< 0.005	0.30	409
Vendor	0.02	0.01	0.48	0.15	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	390	390	< 0.005	0.06	0.20	407
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.75	0.63	5.48	9.13	0.02	0.15	—	0.15	0.13	—	0.13	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.14	0.11	1.00	1.67	< 0.005	0.03	—	0.03	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.87	0.85	0.64	13.9	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,780	3,780	0.04	0.02	5.96	3,794
Vendor	0.14	0.09	3.49	1.15	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,294	3,294	0.04	0.49	3.96	3,446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.80	0.77	0.67	9.40	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,323	3,323	0.04	0.02	0.15	3,330
Vendor	0.13	0.08	3.75	1.19	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,298	3,298	0.04	0.49	0.10	3,446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.57	0.56	0.47	7.39	0.00	0.00	2.80	2.80	0.00	0.66	0.66	—	2,464	2,464	0.03	0.02	1.83	2,471
Vendor	0.10	0.06	2.62	0.83	0.02	0.02	0.80	0.82	0.02	0.22	0.24	—	2,354	2,354	0.03	0.35	1.22	2,461
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.08	1.35	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	408	408	< 0.005	< 0.005	0.30	409
Vendor	0.02	0.01	0.48	0.15	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	390	390	< 0.005	0.06	0.20	407
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.46	0.39	3.38	5.75	0.01	0.09	—	0.09	0.08	—	0.08	—	1,079	1,079	0.04	0.01	—	1,083
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.62	1.05	< 0.005	0.02	—	0.02	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.82	0.80	0.51	13.2	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,734	3,734	0.03	0.02	5.14	3,746
Vendor	0.14	0.09	3.42	1.15	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,190	3,190	0.04	0.49	3.35	3,341
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.73	0.67	8.89	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,282	3,282	0.04	0.02	0.13	3,290
Vendor	0.13	0.08	3.65	1.19	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,193	3,193	0.04	0.49	0.09	3,341
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.33	0.29	4.38	0.00	0.00	1.76	1.76	0.00	0.41	0.41	—	1,534	1,534	0.02	0.01	1.00	1,538
Vendor	0.06	0.04	1.61	0.53	0.01	0.01	0.50	0.51	0.01	0.14	0.15	—	1,436	1,436	0.02	0.22	0.65	1,503
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.80	0.00	0.00	0.32	0.32	0.00	0.08	0.08	—	254	254	< 0.005	< 0.005	0.17	255
Vendor	0.01	0.01	0.29	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	238	238	< 0.005	0.04	0.11	249

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2034) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	3.38	5.75	0.01	0.09	—	0.09	0.08	—	0.08	—	1,079	1,079	0.04	0.01	—	1,083
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.08	0.07	0.62	1.05	< 0.005	0.02	—	0.02	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.82	0.80	0.51	13.2	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,734	3,734	0.03	0.02	5.14	3,746
Vendor	0.14	0.09	3.42	1.15	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,190	3,190	0.04	0.49	3.35	3,341
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.73	0.67	8.89	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,282	3,282	0.04	0.02	0.13	3,290
Vendor	0.13	0.08	3.65	1.19	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,193	3,193	0.04	0.49	0.09	3,341
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.33	0.29	4.38	0.00	0.00	1.76	1.76	0.00	0.41	0.41	—	1,534	1,534	0.02	0.01	1.00	1,538
Vendor	0.06	0.04	1.61	0.53	0.01	0.01	0.50	0.51	0.01	0.14	0.15	—	1,436	1,436	0.02	0.22	0.65	1,503
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.80	0.00	0.00	0.32	0.32	0.00	0.08	0.08	—	254	254	< 0.005	< 0.005	0.17	255
Vendor	0.01	0.01	0.29	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	238	238	< 0.005	0.04	0.11	249
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2034) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.58	5.86	9.82	0.01	0.18	—	0.18	0.16	—	0.16	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.76	0.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.58	5.86	9.82	0.01	0.18	—	0.18	0.16	—	0.16	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.76	0.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.63	1.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	161	161	0.01	< 0.005	—	162
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.7	26.7	< 0.005	< 0.005	—	26.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.61	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	173	173	< 0.005	< 0.005	0.24	173
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.41	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	152	152	< 0.005	< 0.005	0.01	152
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.01	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.79	2.79	< 0.005	< 0.005	< 0.005	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2034) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.58	5.86	9.82	0.01	0.18	—	0.18	0.16	—	0.16	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.76	0.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.58	5.86	9.82	0.01	0.18	—	0.18	0.16	—	0.16	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.76	0.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.63	1.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	161	161	0.01	< 0.005	—	162
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.7	26.7	< 0.005	< 0.005	—	26.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.61	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	173	173	< 0.005	< 0.005	0.24	173
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.41	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	152	152	< 0.005	< 0.005	0.01	152
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.01	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.79	2.79	< 0.005	< 0.005	< 0.005	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2034) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.76	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.3	95.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	—	14.3
Architectural Coatings	10.2	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.36	2.36	< 0.005	< 0.005	—	2.37
Architectural Coatings	1.86	1.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.13	1.78	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	656	656	0.01	< 0.005	0.03	658
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.21	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	72.8	72.8	< 0.005	< 0.005	0.05	73.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.01	12.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2034) - Mitigated

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

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

Off-Roa Equipment	0.11	0.09	0.76	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.3	95.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	—	14.3
Architectural Coatings	10.2	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.36	2.36	< 0.005	< 0.005	—	2.37
Architectural Coatings	1.86	1.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.13	1.78	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	656	656	0.01	< 0.005	0.03	658
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.21	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	72.8	72.8	< 0.005	< 0.005	0.05	73.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.01	12.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.50	2.10	30.8	40.6	0.35	0.56	20.6	21.1	0.54	5.34	5.88	—	37,141	37,141	0.34	4.16	50.8	38,439

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	0.00
Total	2.50	2.10	30.8	40.6	0.35	0.56	20.6	21.1	0.54	5.34	5.88	—	37,141	37,141	0.34	4.16	50.8	38,439
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.34	1.95	33.2	29.3	0.34	0.56	20.6	21.1	0.54	5.34	5.88	—	35,870	35,870	0.35	4.19	1.32	37,128
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	0.00
Total	2.34	1.95	33.2	29.3	0.34	0.56	20.6	21.1	0.54	5.34	5.88	—	35,870	35,870	0.35	4.19	1.32	37,128
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.43	0.36	5.90	5.77	0.06	0.10	3.72	3.82	0.10	0.96	1.06	—	5,996	5,996	0.06	0.69	3.63	6,207
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	0.00
Total	0.43	0.36	5.90	5.77	0.06	0.10	3.72	3.82	0.10	0.96	1.06	—	5,996	5,996	0.06	0.69	3.63	6,207

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.50	2.10	30.8	40.6	0.35	0.56	20.6	21.1	0.54	5.34	5.88	—	37,141	37,141	0.34	4.16	50.8	38,439

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	0.00
Total	2.50	2.10	30.8	40.6	0.35	0.56	20.6	21.1	0.54	5.34	5.88	—	37,141	37,141	0.34	4.16	50.8	38,439
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.34	1.95	33.2	29.3	0.34	0.56	20.6	21.1	0.54	5.34	5.88	—	35,870	35,870	0.35	4.19	1.32	37,128
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	0.00
Total	2.34	1.95	33.2	29.3	0.34	0.56	20.6	21.1	0.54	5.34	5.88	—	35,870	35,870	0.35	4.19	1.32	37,128
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.43	0.36	5.90	5.77	0.06	0.10	3.72	3.82	0.10	0.96	1.06	—	5,996	5,996	0.06	0.69	3.63	6,207
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	0.00
Total	0.43	0.36	5.90	5.77	0.06	0.10	3.72	3.82	0.10	0.96	1.06	—	5,996	5,996	0.06	0.69	3.63	6,207

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	243	243	0.04	< 0.005	—	245
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,874	4,874	0.79	0.10	—	4,922
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	243	243	0.04	< 0.005	—	245
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,874	4,874	0.79	0.10	—	4,922
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	767	767	0.12	0.02	—	774
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	40.2	40.2	0.01	< 0.005	—	40.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	807	807	0.13	0.02	—	815

4.2.2. Electricity Emissions By Land Use - Mitigated

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

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

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	243	243	0.04	< 0.005	—	245
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,874	4,874	0.79	0.10	—	4,922
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	243	243	0.04	< 0.005	—	245
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,874	4,874	0.79	0.10	—	4,922
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	767	767	0.12	0.02	—	774
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	40.2	40.2	0.01	< 0.005	—	40.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	807	807	0.13	0.02	—	815

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Unrefrigerated	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219
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
Total	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Unrefrigerated Wareho Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219
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
Total	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.98	5.52	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Total	7.03	6.57	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.54	0.50	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Total	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.98	5.52	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Total	7.03	6.57	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.54	0.50	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Total	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	404	746	35.1	0.84	—	1,875
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.6	66.9	123	5.82	0.14	—	310

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	4/8/2032	5/6/2032	5.00	21.0	—
Grading	Grading	5/7/2032	7/22/2032	5.00	55.0	—
Building Construction	Building Construction	7/23/2032	8/18/2034	5.00	541	—
Paving	Paving	8/21/2034	10/12/2034	5.00	39.0	—
Architectural Coating	Architectural Coating	10/13/2034	12/6/2034	5.00	39.0	—

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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20

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

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	324	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	126	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	64.8	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	324	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	126	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	64.8	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	1,157,400	385,800	29,732

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	31.5	0.00	—
Grading	—	—	165	0.00	—
Paving	0.00	0.00	0.00	0.00	11.4

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
Unrefrigerated Warehouse-No Rail	0.00	0%

Parking Lot	3.74	100%
Parking Lot	7.63	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2032	0.00	204	0.03	< 0.005
2033	0.00	204	0.03	< 0.005
2034	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,173	1,173	1,173	428,084	26,972	26,972	26,972	9,844,695
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Unrefrigerated Warehouse-No Rail	1,173	1,173	1,173	428,084	26,972	26,972	26,972	9,844,695
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	1,157,400	385,800	29,732

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)
Unrefrigerated Warehouse-No Rail	8,286,841	204	0.0330	0.0040	4,115,831
Parking Lot	142,866	204	0.0330	0.0040	0.00

Parking Lot	291,226	204	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)
Unrefrigerated Warehouse-No Rail	8,286,841	204	0.0330	0.0040	4,115,831
Parking Lot	142,866	204	0.0330	0.0040	0.00
Parking Lot	291,226	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	178,432,500	8,285,766
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	178,432,500	8,285,766
Parking Lot	0.00	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)

Unrefrigerated Warehouse-No Rail	725	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	725	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

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

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P9 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P9
Construction Start Date	12/7/2034
Operational Year	2037
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	772	1000sqft	34.6	771,600	437,477	0.00	—	Phase 1 - Parcel 9

Parking Lot	416	Space	3.74	0.00	0.00	0.00	—	Standard Parking
Parking Lot	848	Space	7.63	0.00	0.00	0.00	—	Truck Parking (424 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	95.5	95.5	11.2	26.4	0.05	0.21	5.09	5.29	0.19	1.24	1.43	—	9,181	9,181	0.17	0.50	7.18	9,343
Mit.	95.5	95.5	11.2	26.4	0.05	0.21	5.09	5.29	0.19	1.24	1.43	—	9,181	9,181	0.17	0.50	7.18	9,343
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.10	2.61	20.6	25.1	0.06	0.82	19.9	20.7	0.75	10.2	10.9	—	8,739	8,739	0.27	0.50	0.19	8,893
Mit.	3.10	2.61	20.6	25.1	0.06	0.82	5.32	6.14	0.75	2.68	3.43	—	8,739	8,739	0.27	0.50	0.19	8,893

% Reduced	—	—	—	—	—	—	73%	70%	—	74%	69%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.7	10.7	8.99	16.8	0.04	0.22	4.37	4.59	0.20	1.32	1.52	—	6,260	6,260	0.14	0.36	1.87	6,372
Mit.	10.7	10.7	8.99	16.8	0.04	0.22	3.60	3.74	0.20	0.88	1.05	—	6,260	6,260	0.14	0.36	1.87	6,372
% Reduced	—	—	—	—	—	—	18%	18%	—	34%	31%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.96	1.95	1.64	3.07	0.01	0.04	0.80	0.84	0.04	0.24	0.28	—	1,036	1,036	0.02	0.06	0.31	1,055
Mit.	1.96	1.95	1.64	3.07	0.01	0.04	0.66	0.68	0.04	0.16	0.19	—	1,036	1,036	0.02	0.06	0.31	1,055
% Reduced	—	—	—	—	—	—	18%	18%	—	34%	31%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2035	1.94	1.72	11.2	26.4	0.05	0.21	5.09	5.29	0.19	1.24	1.43	—	9,181	9,181	0.17	0.50	7.18	9,343
2036	1.90	1.68	10.9	25.8	0.05	0.20	5.09	5.28	0.18	1.24	1.42	—	9,057	9,057	0.17	0.50	6.04	9,217
2037	95.5	95.5	10.7	25.2	0.05	0.19	5.09	5.27	0.17	1.24	1.41	—	8,948	8,948	0.17	0.47	5.07	9,099
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	3.10	2.61	20.6	24.6	0.05	0.82	19.9	20.7	0.75	10.2	10.9	—	5,473	5,473	0.22	0.04	0.01	5,492
2035	2.97	2.50	19.2	25.1	0.06	0.74	19.9	20.6	0.68	10.2	10.8	—	8,739	8,739	0.27	0.50	0.19	8,893
2036	1.84	1.62	11.1	21.8	0.05	0.20	5.09	5.28	0.18	1.24	1.42	—	8,619	8,619	0.17	0.50	0.16	8,774
2037	1.76	1.45	10.9	21.5	0.05	0.19	5.09	5.27	0.17	1.24	1.41	—	8,514	8,514	0.17	0.47	0.13	8,660

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.15	0.13	1.01	1.20	< 0.005	0.04	0.97	1.01	0.04	0.50	0.53	—	268	268	0.01	< 0.005	0.01	269
2035	1.50	1.30	8.99	16.8	0.04	0.22	4.37	4.59	0.20	1.32	1.52	—	5,993	5,993	0.14	0.29	1.74	6,084
2036	1.32	1.16	7.90	16.2	0.04	0.14	3.60	3.74	0.13	0.88	1.01	—	6,260	6,260	0.12	0.36	1.87	6,372
2037	10.7	10.7	2.95	6.01	0.01	0.05	1.16	1.21	0.05	0.28	0.33	—	2,071	2,071	0.04	0.10	0.49	2,102
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.03	0.02	0.18	0.22	< 0.005	0.01	0.18	0.18	0.01	0.09	0.10	—	44.4	44.4	< 0.005	< 0.005	< 0.005	44.5
2035	0.27	0.24	1.64	3.07	0.01	0.04	0.80	0.84	0.04	0.24	0.28	—	992	992	0.02	0.05	0.29	1,007
2036	0.24	0.21	1.44	2.96	0.01	0.03	0.66	0.68	0.02	0.16	0.18	—	1,036	1,036	0.02	0.06	0.31	1,055
2037	1.96	1.95	0.54	1.10	< 0.005	0.01	0.21	0.22	0.01	0.05	0.06	—	343	343	0.01	0.02	0.08	348

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2035	1.94	1.72	11.2	26.4	0.05	0.21	5.09	5.29	0.19	1.24	1.43	—	9,181	9,181	0.17	0.50	7.18	9,343
2036	1.90	1.68	10.9	25.8	0.05	0.20	5.09	5.28	0.18	1.24	1.42	—	9,057	9,057	0.17	0.50	6.04	9,217
2037	95.5	95.5	10.7	25.2	0.05	0.19	5.09	5.27	0.17	1.24	1.41	—	8,948	8,948	0.17	0.47	5.07	9,099
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	3.10	2.61	20.6	24.6	0.05	0.82	5.32	6.14	0.75	2.68	3.43	—	5,473	5,473	0.22	0.04	0.01	5,492
2035	2.97	2.50	19.2	25.1	0.06	0.74	5.32	6.06	0.68	2.68	3.36	—	8,739	8,739	0.27	0.50	0.19	8,893
2036	1.84	1.62	11.1	21.8	0.05	0.20	5.09	5.28	0.18	1.24	1.42	—	8,619	8,619	0.17	0.50	0.16	8,774
2037	1.76	1.45	10.9	21.5	0.05	0.19	5.09	5.27	0.17	1.24	1.41	—	8,514	8,514	0.17	0.47	0.13	8,660
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2034	0.15	0.13	1.01	1.20	< 0.005	0.04	0.26	0.30	0.04	0.13	0.17	—	268	268	0.01	< 0.005	0.01	269
2035	1.50	1.30	8.99	16.8	0.04	0.22	3.23	3.45	0.20	0.85	1.05	—	5,993	5,993	0.14	0.29	1.74	6,084
2036	1.32	1.16	7.90	16.2	0.04	0.14	3.60	3.74	0.13	0.88	1.01	—	6,260	6,260	0.12	0.36	1.87	6,372
2037	10.7	10.7	2.95	6.01	0.01	0.05	1.16	1.21	0.05	0.28	0.33	—	2,071	2,071	0.04	0.10	0.49	2,102
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.03	0.02	0.18	0.22	< 0.005	0.01	0.05	0.05	0.01	0.02	0.03	—	44.4	44.4	< 0.005	< 0.005	< 0.005	44.5
2035	0.27	0.24	1.64	3.07	0.01	0.04	0.59	0.63	0.04	0.16	0.19	—	992	992	0.02	0.05	0.29	1,007
2036	0.24	0.21	1.44	2.96	0.01	0.03	0.66	0.68	0.02	0.16	0.18	—	1,036	1,036	0.02	0.06	0.31	1,055
2037	1.96	1.95	0.54	1.10	< 0.005	0.01	0.21	0.22	0.01	0.05	0.06	—	343	343	0.01	0.02	0.08	348

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.43	8.57	30.7	72.8	0.35	0.68	20.6	21.3	0.64	5.34	5.98	733	42,288	43,021	75.4	4.90	32.5	46,398
Mit.	9.43	8.57	30.7	72.8	0.35	0.68	20.6	21.3	0.64	5.34	5.98	733	42,288	43,021	75.4	4.90	32.5	46,398
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.32	2.92	32.7	28.5	0.33	0.62	20.6	21.2	0.60	5.34	5.93	733	40,916	41,649	75.4	4.93	0.84	45,003
Mit.	3.32	2.92	32.7	28.5	0.33	0.62	20.6	21.2	0.60	5.34	5.93	733	40,916	41,649	75.4	4.93	0.84	45,003
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.30	5.67	32.0	47.3	0.34	0.65	20.4	21.0	0.62	5.28	5.90	733	41,323	42,055	75.4	4.91	14.0	45,418

Mit.	6.30	5.67	32.0	47.3	0.34	0.65	20.4	21.0	0.62	5.28	5.90	733	41,323	42,055	75.4	4.91	14.0	45,418
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.15	1.03	5.85	8.63	0.06	0.12	3.72	3.83	0.11	0.96	1.08	121	6,841	6,963	12.5	0.81	2.32	7,520
Mit.	1.15	1.03	5.85	8.63	0.06	0.12	3.72	3.83	0.11	0.96	1.08	121	6,841	6,963	12.5	0.81	2.32	7,520
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.27	1.93	29.3	38.3	0.34	0.54	20.6	21.1	0.51	5.34	5.85	—	35,555	35,555	0.29	3.96	32.5	36,774
Area	7.03	6.57	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	9.43	8.57	30.7	72.8	0.35	0.68	20.6	21.3	0.64	5.34	5.98	733	42,288	43,021	75.4	4.90	32.5	46,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.14	1.80	31.6	27.6	0.33	0.54	20.6	21.1	0.51	5.34	5.85	—	34,321	34,321	0.31	3.99	0.84	35,518
Area	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	3.32	2.92	32.7	28.5	0.33	0.62	20.6	21.2	0.60	5.34	5.93	733	40,916	41,649	75.4	4.93	0.84	45,003

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.17	1.83	30.8	29.8	0.33	0.54	20.4	20.9	0.51	5.28	5.80	—	34,659	34,659	0.30	3.97	14.0	35,865
Area	4.01	3.78	0.14	16.5	< 0.005	0.03	—	0.03	0.02	—	0.02	—	68.1	68.1	< 0.005	< 0.005	—	68.3
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	6.30	5.67	32.0	47.3	0.34	0.65	20.4	21.0	0.62	5.28	5.90	733	41,323	42,055	75.4	4.91	14.0	45,418
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.40	0.33	5.62	5.44	0.06	0.10	3.72	3.81	0.09	0.96	1.06	—	5,738	5,738	0.05	0.66	2.32	5,938
Area	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Energy	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,025	1,025	0.15	0.02	—	1,034
Water	—	—	—	—	—	—	—	—	—	—	—	56.6	66.6	123	5.82	0.14	—	310
Waste	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Total	1.15	1.03	5.85	8.63	0.06	0.12	3.72	3.83	0.11	0.96	1.08	121	6,841	6,963	12.5	0.81	2.32	7,520

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.27	1.93	29.3	38.3	0.34	0.54	20.6	21.1	0.51	5.34	5.85	—	35,555	35,555	0.29	3.96	32.5	36,774
Area	7.03	6.57	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	9.43	8.57	30.7	72.8	0.35	0.68	20.6	21.3	0.64	5.34	5.98	733	42,288	43,021	75.4	4.90	32.5	46,398

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.14	1.80	31.6	27.6	0.33	0.54	20.6	21.1	0.51	5.34	5.85	—	34,321	34,321	0.31	3.99	0.84	35,518
Area	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	3.32	2.92	32.7	28.5	0.33	0.62	20.6	21.2	0.60	5.34	5.93	733	40,916	41,649	75.4	4.93	0.84	45,003
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.17	1.83	30.8	29.8	0.33	0.54	20.4	20.9	0.51	5.28	5.80	—	34,659	34,659	0.30	3.97	14.0	35,865
Area	4.01	3.78	0.14	16.5	< 0.005	0.03	—	0.03	0.02	—	0.02	—	68.1	68.1	< 0.005	< 0.005	—	68.3
Energy	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	6,193	6,193	0.91	0.10	—	6,245
Water	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Waste	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Total	6.30	5.67	32.0	47.3	0.34	0.65	20.4	21.0	0.62	5.28	5.90	733	41,323	42,055	75.4	4.91	14.0	45,418
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.40	0.33	5.62	5.44	0.06	0.10	3.72	3.81	0.09	0.96	1.06	—	5,738	5,738	0.05	0.66	2.32	5,938
Area	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Energy	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,025	1,025	0.15	0.02	—	1,034
Water	—	—	—	—	—	—	—	—	—	—	—	56.6	66.6	123	5.82	0.14	—	310
Waste	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Total	1.15	1.03	5.85	8.63	0.06	0.12	3.72	3.83	0.11	0.96	1.08	121	6,841	6,963	12.5	0.81	2.32	7,520

3. Construction Emissions Details

3.1. Site Preparation (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.06	2.57	20.6	24.1	0.05	0.82	—	0.82	0.75	—	0.75	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.01	1.18	< 0.005	0.04	—	0.04	0.04	—	0.04	—	259	259	0.01	< 0.005	—	260
Dust From Material Movement	—	—	—	—	—	—	0.96	0.96	—	0.49	0.49	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.18	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	42.9	42.9	< 0.005	< 0.005	—	43.0

Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.48	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	177	177	< 0.005	< 0.005	0.01	178
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.00	9.00	< 0.005	< 0.005	0.01	9.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.49
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2034) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.06	2.57	20.6	24.1	0.05	0.82	—	0.82	0.75	—	0.75	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.01	1.18	< 0.005	0.04	—	0.04	0.04	—	0.04	—	259	259	0.01	< 0.005	—	260
Dust From Material Movement	—	—	—	—	—	—	0.25	0.25	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.18	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	42.9	42.9	< 0.005	< 0.005	—	43.0
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.48	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	177	177	< 0.005	< 0.005	0.01	178
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.00	9.00	< 0.005	< 0.005	0.01	9.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.49
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2035) - Unmitigated

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

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

Off-Roa Equipment	2.93	2.46	19.2	22.9	0.05	0.74	—	0.74	0.68	—	0.68	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.15	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.5	41.5	< 0.005	< 0.005	—	41.6
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.86	6.86	< 0.005	< 0.005	—	6.89
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.46	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	175	175	< 0.005	< 0.005	0.01	176
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.93	2.46	19.2	22.9	0.05	0.74	—	0.74	0.68	—	0.68	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.5	41.5	< 0.005	< 0.005	—	41.6
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.86	6.86	< 0.005	< 0.005	—	6.89
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.46	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	175	175	< 0.005	< 0.005	0.01	176

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.81	2.36	16.8	24.6	0.06	0.62	—	0.62	0.57	—	0.57	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.36	2.54	3.71	0.01	0.09	—	0.09	0.09	—	0.09	—	994	994	0.04	0.01	—	997
Dust From Material Movement	—	—	—	—	—	—	1.39	1.39	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.46	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	—	165	165	0.01	< 0.005	—	165
Dust From Material Movement	—	—	—	—	—	—	0.25	0.25	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.53	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	200	200	< 0.005	< 0.005	0.01	201
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.3	31.3	< 0.005	< 0.005	0.02	31.4

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.19	5.19	< 0.005	< 0.005	< 0.005	5.20
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.81	2.36	16.8	24.6	0.06	0.62	—	0.62	0.57	—	0.57	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.36	2.54	3.71	0.01	0.09	—	0.09	0.09	—	0.09	—	994	994	0.04	0.01	—	997

Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.46	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	—	165	165	0.01	< 0.005	—	165
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.53	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	200	200	< 0.005	< 0.005	0.01	201
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.3	31.3	< 0.005	< 0.005	0.02	31.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.19	5.19	< 0.005	< 0.005	< 0.005	5.20

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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	4.08	7.05	0.01	0.10	—	0.10	0.09	—	0.09	—	1,332	1,332	0.05	0.01	—	1,337
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.10	0.09	0.74	1.29	< 0.005	0.02	—	0.02	0.02	—	0.02	—	221	221	0.01	< 0.005	—	221
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.79	0.78	0.51	12.6	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,693	3,693	0.03	0.02	4.42	3,704
Vendor	0.14	0.09	3.32	1.12	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,092	3,092	0.04	0.46	2.76	3,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.72	0.66	8.53	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,246	3,246	0.04	0.02	0.11	3,254
Vendor	0.13	0.08	3.58	1.15	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,096	3,096	0.04	0.46	0.07	3,235
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.40	0.29	5.16	0.00	0.00	2.18	2.18	0.00	0.51	0.51	—	1,873	1,873	0.02	0.01	1.06	1,878
Vendor	0.07	0.05	1.93	0.63	0.02	0.02	0.62	0.64	0.02	0.17	0.19	—	1,719	1,719	0.02	0.26	0.66	1,797
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.94	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	310	310	< 0.005	< 0.005	0.18	311
Vendor	0.01	0.01	0.35	0.11	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03	—	285	285	< 0.005	0.04	0.11	298
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2035) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	4.08	7.05	0.01	0.10	—	0.10	0.09	—	0.09	—	1,332	1,332	0.05	0.01	—	1,337
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.74	1.29	< 0.005	0.02	—	0.02	0.02	—	0.02	—	221	221	0.01	< 0.005	—	221
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.79	0.78	0.51	12.6	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,693	3,693	0.03	0.02	4.42	3,704
Vendor	0.14	0.09	3.32	1.12	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,092	3,092	0.04	0.46	2.76	3,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.72	0.66	8.53	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,246	3,246	0.04	0.02	0.11	3,254
Vendor	0.13	0.08	3.58	1.15	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,096	3,096	0.04	0.46	0.07	3,235
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.40	0.29	5.16	0.00	0.00	2.18	2.18	0.00	0.51	0.51	—	1,873	1,873	0.02	0.01	1.06	1,878
Vendor	0.07	0.05	1.93	0.63	0.02	0.02	0.62	0.64	0.02	0.17	0.19	—	1,719	1,719	0.02	0.26	0.66	1,797
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.94	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	310	310	< 0.005	< 0.005	0.18	311
Vendor	0.01	0.01	0.35	0.11	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03	—	285	285	< 0.005	0.04	0.11	298
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2036) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.12	12.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.12	12.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.10	9.03	0.02	0.12	—	0.12	0.11	—	0.11	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.93	1.65	< 0.005	0.02	—	0.02	0.02	—	0.02	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.77	0.76	0.51	12.1	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,656	3,656	0.03	0.02	3.78	3,667
Vendor	0.14	0.09	3.25	1.11	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,005	3,005	0.04	0.46	2.26	3,146
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.72	0.71	0.53	8.05	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,214	3,214	0.04	0.02	0.10	3,221
Vendor	0.13	0.08	3.48	1.15	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,008	3,008	0.04	0.46	0.06	3,147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.37	6.41	0.00	0.00	2.80	2.80	0.00	0.66	0.66	—	2,390	2,390	0.03	0.02	1.17	2,396
Vendor	0.09	0.06	2.43	0.81	0.02	0.02	0.80	0.82	0.02	0.22	0.24	—	2,153	2,153	0.03	0.33	0.70	2,253
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.17	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	396	396	< 0.005	< 0.005	0.19	397
Vendor	0.02	0.01	0.44	0.15	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	356	356	< 0.005	0.05	0.12	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2036) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.12	12.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.99	0.83	7.12	12.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.10	9.03	0.02	0.12	—	0.12	0.11	—	0.11	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.93	1.65	< 0.005	0.02	—	0.02	0.02	—	0.02	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.77	0.76	0.51	12.1	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,656	3,656	0.03	0.02	3.78	3,667
Vendor	0.14	0.09	3.25	1.11	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,005	3,005	0.04	0.46	2.26	3,146
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.71	0.53	8.05	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,214	3,214	0.04	0.02	0.10	3,221
Vendor	0.13	0.08	3.48	1.15	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	3,008	3,008	0.04	0.46	0.06	3,147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.37	6.41	0.00	0.00	2.80	2.80	0.00	0.66	0.66	—	2,390	2,390	0.03	0.02	1.17	2,396
Vendor	0.09	0.06	2.43	0.81	0.02	0.02	0.80	0.82	0.02	0.22	0.24	—	2,153	2,153	0.03	0.33	0.70	2,253
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.17	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	396	396	< 0.005	< 0.005	0.19	397
Vendor	0.02	0.01	0.44	0.15	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	356	356	< 0.005	0.05	0.12	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.46	2.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	502	502	0.02	< 0.005	—	504
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.27	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	83.1	83.1	< 0.005	< 0.005	—	83.4
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.72	0.51	11.6	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,623	3,623	0.03	0.02	3.23	3,634
Vendor	0.14	0.09	3.18	1.08	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,928	2,928	0.04	0.43	1.83	3,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.69	0.55	0.53	7.84	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,186	3,186	0.04	0.02	0.08	3,193
Vendor	0.10	0.08	3.41	1.12	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,931	2,931	0.04	0.43	0.05	3,062
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.14	0.11	1.78	0.00	0.00	0.82	0.82	0.00	0.19	0.19	—	693	693	0.01	< 0.005	0.29	694
Vendor	0.02	0.02	0.70	0.23	0.01	0.01	0.23	0.24	0.01	0.06	0.07	—	613	613	0.01	0.09	0.17	641
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.02	0.32	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	115	115	< 0.005	< 0.005	0.05	115
Vendor	< 0.005	< 0.005	0.13	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	102	102	< 0.005	0.02	0.03	106
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.46	2.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	502	502	0.02	< 0.005	—	504
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.27	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	83.1	83.1	< 0.005	< 0.005	—	83.4
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.72	0.51	11.6	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,623	3,623	0.03	0.02	3.23	3,634
Vendor	0.14	0.09	3.18	1.08	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,928	2,928	0.04	0.43	1.83	3,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.69	0.55	0.53	7.84	0.00	0.00	3.96	3.96	0.00	0.93	0.93	—	3,186	3,186	0.04	0.02	0.08	3,193
Vendor	0.10	0.08	3.41	1.12	0.03	0.03	1.12	1.15	0.03	0.31	0.34	—	2,931	2,931	0.04	0.43	0.05	3,062
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.14	0.11	1.78	0.00	0.00	0.82	0.82	0.00	0.19	0.19	—	693	693	0.01	< 0.005	0.29	694
Vendor	0.02	0.02	0.70	0.23	0.01	0.01	0.23	0.24	0.01	0.06	0.07	—	613	613	0.01	0.09	0.17	641
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.32	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	115	115	< 0.005	< 0.005	0.05	115
Vendor	< 0.005	< 0.005	0.13	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	102	102	< 0.005	0.02	0.03	106
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	5.50	9.77	0.01	0.12	—	0.12	0.11	—	0.11	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.76	0.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.59	1.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	161	161	0.01	< 0.005	—	162
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.7	26.7	< 0.005	< 0.005	—	26.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.54	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	168	168	< 0.005	< 0.005	0.15	168
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.01	16.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	< 0.005	2.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	5.50	9.77	0.01	0.12	—	0.12	0.11	—	0.11	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.76	0.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.59	1.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	161	161	0.01	< 0.005	—	162
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.7	26.7	< 0.005	< 0.005	—	26.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.54	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	168	168	< 0.005	< 0.005	0.15	168
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.01	16.4

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	< 0.005	2.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.75	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.3	95.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	—	14.3

Architectural	10.2	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.36	2.36	< 0.005	< 0.005	—	2.37
Architectural Coatings	1.86	1.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.10	2.33	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	725	725	0.01	< 0.005	0.65	727
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	70.7	70.7	< 0.005	< 0.005	0.03	70.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	< 0.005	11.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.75	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	95.3	95.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	—	14.3
Architectural Coatings	10.2	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.36	2.36	< 0.005	< 0.005	—	2.37
Architectural Coatings	1.86	1.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.10	2.33	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	725	725	0.01	< 0.005	0.65	727
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	70.7	70.7	< 0.005	< 0.005	0.03	70.9
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	< 0.005	11.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.27	1.93	29.3	38.3	0.34	0.54	20.6	21.1	0.51	5.34	5.85	—	35,555	35,555	0.29	3.96	32.5	36,774
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	0.00
Total	2.27	1.93	29.3	38.3	0.34	0.54	20.6	21.1	0.51	5.34	5.85	—	35,555	35,555	0.29	3.96	32.5	36,774
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.14	1.80	31.6	27.6	0.33	0.54	20.6	21.1	0.51	5.34	5.85	—	34,321	34,321	0.31	3.99	0.84	35,518
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	0.00
Total	2.14	1.80	31.6	27.6	0.33	0.54	20.6	21.1	0.51	5.34	5.85	—	34,321	34,321	0.31	3.99	0.84	35,518
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.40	0.33	5.62	5.44	0.06	0.10	3.72	3.81	0.09	0.96	1.06	—	5,738	5,738	0.05	0.66	2.32	5,938
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	0.00

Total	0.40	0.33	5.62	5.44	0.06	0.10	3.72	3.81	0.09	0.96	1.06	—	5,738	5,738	0.05	0.66	2.32	5,938

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.27	1.93	29.3	38.3	0.34	0.54	20.6	21.1	0.51	5.34	5.85	—	35,555	35,555	0.29	3.96	32.5	36,774
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	0.00
Total	2.27	1.93	29.3	38.3	0.34	0.54	20.6	21.1	0.51	5.34	5.85	—	35,555	35,555	0.29	3.96	32.5	36,774
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.14	1.80	31.6	27.6	0.33	0.54	20.6	21.1	0.51	5.34	5.85	—	34,321	34,321	0.31	3.99	0.84	35,518
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	0.00
Total	2.14	1.80	31.6	27.6	0.33	0.54	20.6	21.1	0.51	5.34	5.85	—	34,321	34,321	0.31	3.99	0.84	35,518
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.40	0.33	5.62	5.44	0.06	0.10	3.72	3.81	0.09	0.96	1.06	—	5,738	5,738	0.05	0.66	2.32	5,938
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	0.00

Total	0.40	0.33	5.62	5.44	0.06	0.10	3.72	3.81	0.09	0.96	1.06	—	5,738	5,738	0.05	0.66	2.32	5,938

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	243	243	0.04	< 0.005	—	245
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,874	4,874	0.79	0.10	—	4,922
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	243	243	0.04	< 0.005	—	245
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,874	4,874	0.79	0.10	—	4,922
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	767	767	0.12	0.02	—	774
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	40.2	40.2	0.01	< 0.005	—	40.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	807	807	0.13	0.02	—	815

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	243	243	0.04	< 0.005	—	245
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,874	4,874	0.79	0.10	—	4,922
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,631	4,631	0.75	0.09	—	4,677
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	243	243	0.04	< 0.005	—	245
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,874	4,874	0.79	0.10	—	4,922
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	767	767	0.12	0.02	—	774
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	40.2	40.2	0.01	< 0.005	—	40.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	807	807	0.13	0.02	—	815

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219
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
Total	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
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
Total	0.12	0.06	1.11	0.93	0.01	0.08	—	0.08	0.08	—	0.08	—	1,319	1,319	0.12	< 0.005	—	1,323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Wareho Rail	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219
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
Total	0.02	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	218	218	0.02	< 0.005	—	219

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.98	5.52	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Total	7.03	6.57	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.54	0.50	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Total	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.98	5.52	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138

Total	7.03	6.57	0.28	33.6	< 0.005	0.06	—	0.06	0.05	—	0.05	—	138	138	0.01	< 0.005	—	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.54	0.50	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Total	0.73	0.69	0.03	3.02	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	56.6	66.6	123	5.82	0.14	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.6	66.6	123	5.82	0.14	—	310

4.4.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	342	402	744	35.1	0.84	—	1,873
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	56.6	66.6	123	5.82	0.14	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	56.6	66.6	123	5.82	0.14	—	310

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	391	0.00	391	39.1	0.00	—	1,368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	64.7	0.00	64.7	6.47	0.00	—	226

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	12/7/2034	1/4/2035	5.00	21.0	—
Grading	Grading	1/5/2035	3/22/2035	5.00	55.0	—
Building Construction	Building Construction	3/23/2035	4/17/2037	5.00	541	—
Paving	Paving	4/20/2037	6/11/2037	5.00	39.0	—
Architectural Coating	Architectural Coating	6/12/2037	8/5/2037	5.00	39.0	—

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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Grading	Tractors/Loaders/Back	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	324	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	126	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	64.8	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	324	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	126	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	64.8	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	1,157,400	385,800	29,732

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)

Site Preparation	—	—	31.5	0.00	—
Grading	—	—	165	0.00	—
Paving	0.00	0.00	0.00	0.00	11.4

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	3.74	100%
Parking Lot	7.63	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2034	0.00	204	0.03	< 0.005
2035	0.00	204	0.03	< 0.005
2036	0.00	204	0.03	< 0.005
2037	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,173	1,173	1,173	428,084	26,972	26,972	26,972	9,844,695
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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
Unrefrigerated Warehouse-No Rail	1,173	1,173	1,173	428,084	26,972	26,972	26,972	9,844,695
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	1,157,400	385,800	29,732

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)
Unrefrigerated Warehouse-No Rail	8,286,841	204	0.0330	0.0040	4,115,831
Parking Lot	142,866	204	0.0330	0.0040	0.00
Parking Lot	291,226	204	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)
Unrefrigerated Warehouse-No Rail	8,286,841	204	0.0330	0.0040	4,115,831
Parking Lot	142,866	204	0.0330	0.0040	0.00
Parking Lot	291,226	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	178,432,500	7,135,103
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	178,432,500	7,135,103
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	725	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	725	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

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

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor

Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P10 Custom Report

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5.18.2.1. Unmitigated

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P10
Construction Start Date	8/6/2037
Operational Year	2038
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	175	1000sqft	13.6	174,720	288,774	0.00	—	Phase 1 - Parcel 10

Parking Lot	260	Space	2.34	0.00	0.00	0.00	—	Standard Parking
Parking Lot	104	Space	0.94	0.00	0.00	0.00	—	Truck Parking (52 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.83	2.39	18.1	24.7	0.06	0.68	19.9	20.6	0.63	10.2	10.8	—	6,820	6,820	0.27	0.12	1.15	6,843
Mit.	2.83	2.39	18.1	24.7	0.06	0.68	5.32	6.01	0.63	2.68	3.30	—	6,820	6,820	0.27	0.12	1.15	6,843
% Reduced	—	—	—	—	—	—	73%	71%	—	74%	69%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	94.6	94.5	7.88	14.5	0.03	0.16	1.15	1.32	0.15	0.28	0.43	—	3,782	3,782	0.11	0.12	0.03	3,821
Mit.	94.6	94.5	7.88	14.5	0.03	0.16	1.15	1.32	0.15	0.28	0.43	—	3,782	3,782	0.11	0.12	0.03	3,821

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.48	2.46	2.67	4.68	0.01	0.07	0.88	0.95	0.06	0.34	0.40	—	1,227	1,227	0.04	0.03	0.12	1,237
Mit.	2.48	2.46	2.67	4.68	0.01	0.07	0.44	0.51	0.06	0.14	0.20	—	1,227	1,227	0.04	0.03	0.12	1,237
% Reduced	—	—	—	—	—	—	50%	47%	—	59%	50%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.45	0.45	0.49	0.85	< 0.005	0.01	0.16	0.17	0.01	0.06	0.07	—	203	203	0.01	0.01	0.02	205
Mit.	0.45	0.45	0.49	0.85	< 0.005	0.01	0.08	0.09	0.01	0.03	0.04	—	203	203	0.01	0.01	0.02	205
% Reduced	—	—	—	—	—	—	50%	47%	—	59%	50%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.83	2.39	18.1	24.7	0.06	0.68	19.9	20.6	0.63	10.2	10.8	—	6,820	6,820	0.27	0.12	1.15	6,843
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.16	0.96	7.88	14.5	0.03	0.16	1.15	1.32	0.15	0.28	0.43	—	3,782	3,782	0.11	0.12	0.03	3,821
2038	94.6	94.5	7.77	14.5	0.03	0.16	1.15	1.31	0.15	0.28	0.43	—	3,761	3,761	0.11	0.12	0.02	3,800
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.41	0.35	2.67	4.68	0.01	0.07	0.88	0.95	0.06	0.34	0.40	—	1,227	1,227	0.04	0.03	0.12	1,237
2038	2.48	2.46	0.88	1.66	< 0.005	0.02	0.12	0.13	0.02	0.03	0.04	—	404	404	0.01	0.01	0.04	408

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.08	0.06	0.49	0.85	< 0.005	0.01	0.16	0.17	0.01	0.06	0.07	—	203	203	0.01	0.01	0.02	205
2038	0.45	0.45	0.16	0.30	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	66.8	66.8	< 0.005	< 0.005	0.01	67.5

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.83	2.39	18.1	24.7	0.06	0.68	5.32	6.01	0.63	2.68	3.30	—	6,820	6,820	0.27	0.12	1.15	6,843
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.16	0.96	7.88	14.5	0.03	0.16	1.15	1.32	0.15	0.28	0.43	—	3,782	3,782	0.11	0.12	0.03	3,821
2038	94.6	94.5	7.77	14.5	0.03	0.16	1.15	1.31	0.15	0.28	0.43	—	3,761	3,761	0.11	0.12	0.02	3,800
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.41	0.35	2.67	4.68	0.01	0.07	0.44	0.51	0.06	0.14	0.20	—	1,227	1,227	0.04	0.03	0.12	1,237
2038	2.48	2.46	0.88	1.66	< 0.005	0.02	0.12	0.13	0.02	0.03	0.04	—	404	404	0.01	0.01	0.04	408
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.08	0.06	0.49	0.85	< 0.005	0.01	0.08	0.09	0.01	0.03	0.04	—	203	203	0.01	0.01	0.02	205
2038	0.45	0.45	0.16	0.30	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	66.8	66.8	< 0.005	< 0.005	0.01	67.5

2.4. Operations Emissions Compared Against Thresholds

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

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

Unmit.	2.13	1.93	6.86	16.4	0.08	0.15	4.66	4.81	0.14	1.21	1.35	166	9,506	9,672	17.1	1.10	6.30	10,433
Mit.	2.13	1.93	6.86	16.4	0.08	0.15	4.66	4.81	0.14	1.21	1.35	166	9,506	9,672	17.1	1.10	6.30	10,433
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.74	0.66	7.32	6.40	0.07	0.14	4.66	4.80	0.13	1.21	1.34	166	9,198	9,364	17.1	1.11	0.16	10,120
Mit.	0.74	0.66	7.32	6.40	0.07	0.14	4.66	4.80	0.13	1.21	1.34	166	9,198	9,364	17.1	1.11	0.16	10,120
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.42	1.28	7.16	10.6	0.08	0.15	4.61	4.76	0.14	1.20	1.34	166	9,289	9,455	17.1	1.10	2.72	10,213
Mit.	1.42	1.28	7.16	10.6	0.08	0.15	4.61	4.76	0.14	1.20	1.34	166	9,289	9,455	17.1	1.10	2.72	10,213
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	0.23	1.31	1.94	0.01	0.03	0.84	0.87	0.03	0.22	0.24	27.5	1,538	1,565	2.83	0.18	0.45	1,691
Mit.	0.26	0.23	1.31	1.94	0.01	0.03	0.84	0.87	0.03	0.22	0.24	27.5	1,538	1,565	2.83	0.18	0.45	1,691
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234

Area	1.60	1.49	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,417	1,417	0.21	0.02	—	1,429
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	2.13	1.93	6.86	16.4	0.08	0.15	4.66	4.81	0.14	1.21	1.35	166	9,506	9,672	17.1	1.10	6.30	10,433
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
Area	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,417	1,417	0.21	0.02	—	1,429
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	0.74	0.66	7.32	6.40	0.07	0.14	4.66	4.80	0.13	1.21	1.34	166	9,198	9,364	17.1	1.11	0.16	10,120
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.48	0.40	6.88	6.69	0.07	0.12	4.61	4.73	0.11	1.20	1.31	—	7,761	7,761	0.07	0.89	2.72	8,030
Area	0.91	0.86	0.03	3.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,417	1,417	0.21	0.02	—	1,429
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	1.42	1.28	7.16	10.6	0.08	0.15	4.61	4.76	0.14	1.20	1.34	166	9,289	9,455	17.1	1.10	2.72	10,213
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330
Area	0.17	0.16	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56
Energy	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	235	235	0.03	< 0.005	—	237
Water	—	—	—	—	—	—	—	—	—	—	—	12.8	15.8	28.6	1.32	0.03	—	70.9
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Total	0.26	0.23	1.31	1.94	0.01	0.03	0.84	0.87	0.03	0.22	0.24	27.5	1,538	1,565	2.83	0.18	0.45	1,691

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234
Area	1.60	1.49	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,417	1,417	0.21	0.02	—	1,429
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	2.13	1.93	6.86	16.4	0.08	0.15	4.66	4.81	0.14	1.21	1.35	166	9,506	9,672	17.1	1.10	6.30	10,433
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
Area	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,417	1,417	0.21	0.02	—	1,429
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	0.74	0.66	7.32	6.40	0.07	0.14	4.66	4.80	0.13	1.21	1.34	166	9,198	9,364	17.1	1.11	0.16	10,120
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.48	0.40	6.88	6.69	0.07	0.12	4.61	4.73	0.11	1.20	1.31	—	7,761	7,761	0.07	0.89	2.72	8,030
Area	0.91	0.86	0.03	3.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,417	1,417	0.21	0.02	—	1,429
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	1.42	1.28	7.16	10.6	0.08	0.15	4.61	4.76	0.14	1.20	1.34	166	9,289	9,455	17.1	1.10	2.72	10,213
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330
Area	0.17	0.16	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56
Energy	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	235	235	0.03	< 0.005	—	237
Water	—	—	—	—	—	—	—	—	—	—	—	12.8	15.8	28.6	1.32	0.03	—	70.9
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Total	0.26	0.23	1.31	1.94	0.01	0.03	0.84	0.87	0.03	0.22	0.24	27.5	1,538	1,565	2.83	0.18	0.45	1,691

3. Construction Emissions Details

3.1. Site Preparation (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.79	2.35	18.1	21.9	0.05	0.68	—	0.68	0.63	—	0.63	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.04	0.03	0.25	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.63	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	196	196	< 0.005	< 0.005	0.17	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.45	2.45	< 0.005	< 0.005	< 0.005	2.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.79	2.35	18.1	21.9	0.05	0.68	—	0.68	0.63	—	0.63	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.25	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.63	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	196	196	< 0.005	< 0.005	0.17	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.45	2.45	< 0.005	< 0.005	< 0.005	2.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.66	2.23	15.3	23.9	0.06	0.56	—	0.56	0.51	—	0.51	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.54	0.85	< 0.005	0.02	—	0.02	0.02	—	0.02	—	235	235	0.01	< 0.005	—	236
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.01	0.10	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.9	38.9	< 0.005	< 0.005	—	39.0
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.72	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	224	224	< 0.005	< 0.005	0.20	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.27	7.27	< 0.005	< 0.005	< 0.005	7.29
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.20	1.20	< 0.005	< 0.005	< 0.005	1.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.66	2.23	15.3	23.9	0.06	0.56	—	0.56	0.51	—	0.51	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.54	0.85	< 0.005	0.02	—	0.02	0.02	—	0.02	—	235	235	0.01	< 0.005	—	236
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.10	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.9	38.9	< 0.005	< 0.005	—	39.0

Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.72	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	224	224	< 0.005	< 0.005	0.20	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.27	7.27	< 0.005	< 0.005	< 0.005	7.29
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.20	1.20	< 0.005	< 0.005	< 0.005	1.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2037) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.67	2.98	0.01	0.04	—	0.04	0.03	—	0.03	—	572	572	0.02	< 0.005	—	574
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.54	< 0.005	0.01	—	0.01	0.01	—	0.01	—	94.7	94.7	< 0.005	< 0.005	—	95.1
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.17	0.16	0.11	2.63	0.00	0.00	0.90	0.90	0.00	0.21	0.21	—	820	820	0.01	< 0.005	0.73	823
Vendor	0.03	0.02	0.72	0.25	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	663	663	0.01	0.10	0.42	693
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.12	0.12	1.78	0.00	0.00	0.90	0.90	0.00	0.21	0.21	—	721	721	0.01	< 0.005	0.02	723
Vendor	0.02	0.02	0.77	0.25	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	664	664	0.01	0.10	0.01	693
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.46	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	179	179	< 0.005	< 0.005	0.08	179
Vendor	0.01	< 0.005	0.18	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	158	158	< 0.005	0.02	0.04	165
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	29.6	29.6	< 0.005	< 0.005	0.01	29.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.2	26.2	< 0.005	< 0.005	0.01	27.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.67	2.98	0.01	0.04	—	0.04	0.03	—	0.03	—	572	572	0.02	< 0.005	—	574
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.54	< 0.005	0.01	—	0.01	0.01	—	0.01	—	94.7	94.7	< 0.005	< 0.005	—	95.1
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.11	2.63	0.00	0.00	0.90	0.90	0.00	0.21	0.21	—	820	820	0.01	< 0.005	0.73	823
Vendor	0.03	0.02	0.72	0.25	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	663	663	0.01	0.10	0.42	693
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.16	0.12	0.12	1.78	0.00	0.00	0.90	0.90	0.00	0.21	0.21	—	721	721	0.01	< 0.005	0.02	723
Vendor	0.02	0.02	0.77	0.25	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	664	664	0.01	0.10	0.01	693
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.46	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	179	179	< 0.005	< 0.005	0.08	179
Vendor	0.01	< 0.005	0.18	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	158	158	< 0.005	0.02	0.04	165
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	29.6	29.6	< 0.005	< 0.005	0.01	29.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.2	26.2	< 0.005	< 0.005	0.01	27.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2038) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.09	0.08	0.65	1.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	225	225	0.01	< 0.005	—	226
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.3	37.3	< 0.005	< 0.005	—	37.4
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.12	0.12	1.73	0.00	0.00	0.90	0.90	0.00	0.21	0.21	—	716	716	0.01	< 0.005	0.02	717
Vendor	0.02	0.02	0.76	0.25	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	648	648	0.01	0.10	0.01	678
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	69.8	69.8	< 0.005	< 0.005	0.03	70.0
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	60.9	60.9	< 0.005	0.01	0.01	63.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	< 0.005	11.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.65	1.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	225	225	0.01	< 0.005	—	226
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.3	37.3	< 0.005	< 0.005	—	37.4
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.12	0.12	1.73	0.00	0.00	0.90	0.90	0.00	0.21	0.21	—	716	716	0.01	< 0.005	0.02	717
Vendor	0.02	0.02	0.76	0.25	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	648	648	0.01	0.10	0.01	678
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	69.8	69.8	< 0.005	< 0.005	0.03	70.0
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	60.9	60.9	< 0.005	0.01	0.01	63.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	< 0.005	11.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2038) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.95	0.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.2	37.2	< 0.005	< 0.005	—	37.4
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	< 0.005	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.75	3.75	< 0.005	< 0.005	< 0.005	3.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Paving (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.95	0.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.2	37.2	< 0.005	< 0.005	—	37.4
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	< 0.005	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.75	3.75	< 0.005	< 0.005	< 0.005	3.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2038) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.75	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	94.4	94.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.29	3.29	< 0.005	< 0.005	—	3.30
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.55	0.55	< 0.005	< 0.005	—	0.55
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	143	143	< 0.005	< 0.005	< 0.005	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Architectural Coating (2038) - Mitigated

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

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

Off-Roa Equipment	0.11	0.09	0.75	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	94.4	94.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.29	3.29	< 0.005	< 0.005	—	3.30
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.55	0.55	< 0.005	< 0.005	—	0.55
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	143	143	< 0.005	< 0.005	< 0.005	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234

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	0.00
Total	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
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	0.00
Total	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330
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	0.00
Total	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234

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	0.00
Total	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
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	0.00
Total	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330
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	0.00
Total	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,049	1,049	0.17	0.02	—	1,059
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	0.18	0.02	—	1,130
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,049	1,049	0.17	0.02	—	1,059
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	0.18	0.02	—	1,130
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	185	185	0.03	< 0.005	—	187

4.2.2. Electricity Emissions By Land Use - Mitigated

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

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

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,049	1,049	0.17	0.02	—	1,059
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	0.18	0.02	—	1,130
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,049	1,049	0.17	0.02	—	1,059
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	0.18	0.02	—	1,130
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	185	185	0.03	< 0.005	—	187

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Unrefrigerated	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
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
Total	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
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
Total	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.5	49.5	< 0.005	< 0.005	—	49.6
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
Total	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.5	49.5	< 0.005	< 0.005	—	49.6

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Unrefrigerated Warehouse-Rail	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
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
Total	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
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
Total	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.5	49.5	< 0.005	< 0.005	—	49.6
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
Total	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.5	49.5	< 0.005	< 0.005	—	49.6

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.35	1.25	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Total	1.60	1.49	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.12	0.11	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56
Total	0.17	0.16	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.35	1.25	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Total	1.60	1.49	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.12	0.11	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56
Total	0.17	0.16	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	12.8	15.8	28.6	1.32	0.03	—	70.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.8	15.8	28.6	1.32	0.03	—	70.9

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	77.4	95.3	173	7.95	0.19	—	428
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	12.8	15.8	28.6	1.32	0.03	—	70.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.8	15.8	28.6	1.32	0.03	—	70.9

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

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

4.6.2. Mitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	8/6/2037	8/12/2037	5.00	5.00	—
Grading	Grading	8/13/2037	8/31/2037	5.00	13.0	—
Building Construction	Building Construction	9/1/2037	2/17/2038	5.00	122	—
Paving	Paving	2/18/2038	3/2/2038	5.00	9.00	—
Architectural Coating	Architectural Coating	3/3/2038	3/15/2038	5.00	9.00	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	73.4	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	28.6	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	14.7	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	73.4	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	28.6	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	14.7	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	262,080	87,360	8,562

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	7.50	0.00	—
Grading	—	—	39.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.28

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
Unrefrigerated Warehouse-No Rail	0.00	0%

Parking Lot	2.34	100%
Parking Lot	0.94	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2037	0.00	204	0.03	< 0.005
2038	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	266	266	266	96,935	6,107	6,107	6,107	2,229,219
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Unrefrigerated Warehouse-No Rail	266	266	266	96,935	6,107	6,107	6,107	2,229,219
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	262,080	87,360	8,562

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)
Unrefrigerated Warehouse-No Rail	1,876,461	204	0.0330	0.0040	931,983
Parking Lot	89,291	204	0.0330	0.0040	0.00
Parking Lot	35,716	204	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)
Unrefrigerated Warehouse-No Rail	1,876,461	204	0.0330	0.0040	931,983
Parking Lot	89,291	204	0.0330	0.0040	0.00
Parking Lot	35,716	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	40,404,000	4,709,807
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	40,404,000	4,709,807
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	164	—
Parking Lot	0.00	—

Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	164	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

Malibu Vineyards_1-P11 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P11
Construction Start Date	3/16/2038
Operational Year	2038
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	175	1000sqft	13.4	174,720	231,523	0.00	—	Phase 1 - Parcel 11

Parking Lot	270	Space	2.43	0.00	0.00	0.00	—	Standard Parking
Parking Lot	104	Space	0.94	0.00	0.00	0.00	—	Truck Parking (52 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.62	2.20	14.4	23.9	0.06	0.52	9.45	9.97	0.48	3.71	4.19	—	6,818	6,818	0.27	0.12	0.95	6,841
Mit.	2.62	2.20	14.4	23.9	0.06	0.52	2.64	3.16	0.48	1.01	1.48	—	6,818	6,818	0.27	0.12	0.95	6,841
% Reduced	—	—	—	—	—	—	72%	68%	—	73%	65%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	94.7	94.7	16.5	23.6	0.06	0.61	19.9	20.5	0.56	10.2	10.7	—	6,791	6,791	0.27	0.05	< 0.005	6,814
Mit.	94.7	94.7	16.5	23.6	0.06	0.61	5.32	5.94	0.56	2.68	3.24	—	6,791	6,791	0.27	0.05	< 0.005	6,814

% Reduced	—	—	—	—	—	—	73%	71%	—	74%	70%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.89	2.80	3.48	6.29	0.01	0.08	1.00	1.08	0.08	0.37	0.44	—	1,631	1,631	0.05	0.04	0.14	1,646
Mit.	2.89	2.80	3.48	6.29	0.01	0.08	0.56	0.64	0.08	0.17	0.24	—	1,631	1,631	0.05	0.04	0.14	1,646
% Reduced	—	—	—	—	—	—	44%	41%	—	54%	45%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.53	0.51	0.64	1.15	< 0.005	0.02	0.18	0.20	0.01	0.07	0.08	—	270	270	0.01	0.01	0.02	272
Mit.	0.53	0.51	0.64	1.15	< 0.005	0.02	0.10	0.12	0.01	0.03	0.04	—	270	270	0.01	0.01	0.02	272
% Reduced	—	—	—	—	—	—	44%	41%	—	54%	45%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.62	2.20	14.4	23.9	0.06	0.52	9.45	9.97	0.48	3.71	4.19	—	6,818	6,818	0.27	0.12	0.95	6,841
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	94.7	94.7	16.5	23.6	0.06	0.61	19.9	20.5	0.56	10.2	10.7	—	6,791	6,791	0.27	0.05	< 0.005	6,814
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.89	2.80	3.48	6.29	0.01	0.08	1.00	1.08	0.08	0.37	0.44	—	1,631	1,631	0.05	0.04	0.14	1,646
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.53	0.51	0.64	1.15	< 0.005	0.02	0.18	0.20	0.01	0.07	0.08	—	270	270	0.01	0.01	0.02	272

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.62	2.20	14.4	23.9	0.06	0.52	2.64	3.16	0.48	1.01	1.48	—	6,818	6,818	0.27	0.12	0.95	6,841
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	94.7	94.7	16.5	23.6	0.06	0.61	5.32	5.94	0.56	2.68	3.24	—	6,791	6,791	0.27	0.05	< 0.005	6,814
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.89	2.80	3.48	6.29	0.01	0.08	0.56	0.64	0.08	0.17	0.24	—	1,631	1,631	0.05	0.04	0.14	1,646
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.53	0.51	0.64	1.15	< 0.005	0.02	0.10	0.12	0.01	0.03	0.04	—	270	270	0.01	0.01	0.02	272

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.13	1.93	6.86	16.4	0.08	0.15	4.66	4.81	0.14	1.21	1.35	166	9,507	9,673	17.1	1.10	6.30	10,434
Mit.	2.13	1.93	6.86	16.4	0.08	0.15	4.66	4.81	0.14	1.21	1.35	166	9,507	9,673	17.1	1.10	6.30	10,434
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.75	0.66	7.32	6.40	0.07	0.14	4.66	4.80	0.13	1.21	1.34	166	9,198	9,364	17.1	1.11	0.16	10,121

Mit.	0.75	0.66	7.32	6.40	0.07	0.14	4.66	4.80	0.13	1.21	1.34	166	9,198	9,364	17.1	1.11	0.16	10,121
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.42	1.28	7.16	10.6	0.08	0.15	4.61	4.76	0.14	1.20	1.34	166	9,290	9,456	17.1	1.10	2.72	10,214
Mit.	1.42	1.28	7.16	10.6	0.08	0.15	4.61	4.76	0.14	1.20	1.34	166	9,290	9,456	17.1	1.10	2.72	10,214
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	0.23	1.31	1.94	0.01	0.03	0.84	0.87	0.03	0.22	0.24	27.5	1,538	1,566	2.83	0.18	0.45	1,691
Mit.	0.26	0.23	1.31	1.94	0.01	0.03	0.84	0.87	0.03	0.22	0.24	27.5	1,538	1,566	2.83	0.18	0.45	1,691
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234
Area	1.60	1.49	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,419	1,419	0.21	0.02	—	1,431
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	2.13	1.93	6.86	16.4	0.08	0.15	4.66	4.81	0.14	1.21	1.35	166	9,507	9,673	17.1	1.10	6.30	10,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
Area	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,419	1,419	0.21	0.02	—	1,431
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	0.75	0.66	7.32	6.40	0.07	0.14	4.66	4.80	0.13	1.21	1.34	166	9,198	9,364	17.1	1.11	0.16	10,121
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.48	0.40	6.88	6.69	0.07	0.12	4.61	4.73	0.11	1.20	1.31	—	7,761	7,761	0.07	0.89	2.72	8,030
Area	0.91	0.86	0.03	3.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,419	1,419	0.21	0.02	—	1,431
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	1.42	1.28	7.16	10.6	0.08	0.15	4.61	4.76	0.14	1.20	1.34	166	9,290	9,456	17.1	1.10	2.72	10,214
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330
Area	0.17	0.16	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56
Energy	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	235	235	0.03	< 0.005	—	237
Water	—	—	—	—	—	—	—	—	—	—	—	12.8	15.6	28.4	1.32	0.03	—	70.7
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Total	0.26	0.23	1.31	1.94	0.01	0.03	0.84	0.87	0.03	0.22	0.24	27.5	1,538	1,566	2.83	0.18	0.45	1,691

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234

Area	1.60	1.49	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,419	1,419	0.21	0.02	—	1,431
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	2.13	1.93	6.86	16.4	0.08	0.15	4.66	4.81	0.14	1.21	1.35	166	9,507	9,673	17.1	1.10	6.30	10,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
Area	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,419	1,419	0.21	0.02	—	1,431
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	0.75	0.66	7.32	6.40	0.07	0.14	4.66	4.80	0.13	1.21	1.34	166	9,198	9,364	17.1	1.11	0.16	10,121
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.48	0.40	6.88	6.69	0.07	0.12	4.61	4.73	0.11	1.20	1.31	—	7,761	7,761	0.07	0.89	2.72	8,030
Area	0.91	0.86	0.03	3.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Energy	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,419	1,419	0.21	0.02	—	1,431
Water	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Total	1.42	1.28	7.16	10.6	0.08	0.15	4.61	4.76	0.14	1.20	1.34	166	9,290	9,456	17.1	1.10	2.72	10,214
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330
Area	0.17	0.16	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56
Energy	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	235	235	0.03	< 0.005	—	237
Water	—	—	—	—	—	—	—	—	—	—	—	12.8	15.6	28.4	1.32	0.03	—	70.7
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Total	0.26	0.23	1.31	1.94	0.01	0.03	0.84	0.87	0.03	0.22	0.24	27.5	1,538	1,566	2.83	0.18	0.45	1,691

3. Construction Emissions Details

3.1. Site Preparation (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.65	2.23	16.5	20.3	0.05	0.61	—	0.61	0.56	—	0.56	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.23	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.01	0.01	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.41	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	171	171	< 0.005	< 0.005	< 0.005	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.43	2.43	< 0.005	< 0.005	< 0.005	2.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2038) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.65	2.23	16.5	20.3	0.05	0.61	—	0.61	0.56	—	0.56	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.23	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.41	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	171	171	< 0.005	< 0.005	< 0.005	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.43	2.43	< 0.005	< 0.005	< 0.005	2.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.57	2.16	14.3	23.2	0.06	0.52	—	0.52	0.48	—	0.48	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.57	2.16	14.3	23.2	0.06	0.52	—	0.52	0.48	—	0.48	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.51	0.82	< 0.005	0.02	—	0.02	0.02	—	0.02	—	235	235	0.01	< 0.005	—	236
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.02	0.01	0.09	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.9	38.9	< 0.005	< 0.005	—	39.0
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.70	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	222	222	< 0.005	< 0.005	0.17	222
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.47	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	195	195	< 0.005	< 0.005	< 0.005	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.21	7.21	< 0.005	< 0.005	< 0.005	7.23
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.20
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2038) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.57	2.16	14.3	23.2	0.06	0.52	—	0.52	0.48	—	0.48	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.57	2.16	14.3	23.2	0.06	0.52	—	0.52	0.48	—	0.48	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.51	0.82	< 0.005	0.02	—	0.02	0.02	—	0.02	—	235	235	0.01	< 0.005	—	236

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.09	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.9	38.9	< 0.005	< 0.005	—	39.0
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.70	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	222	222	< 0.005	< 0.005	0.17	222
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.47	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	195	195	< 0.005	< 0.005	< 0.005	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.21	7.21	< 0.005	< 0.005	< 0.005	7.23
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.20
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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.30	4.17	0.01	0.05	—	0.05	0.05	—	0.05	—	801	801	0.03	0.01	—	804
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.05	0.42	0.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	133	133	0.01	< 0.005	—	133
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.13	0.09	2.57	0.00	0.00	0.90	0.90	0.00	0.21	0.21	—	814	814	0.01	< 0.005	0.62	816
Vendor	0.02	0.02	0.70	0.25	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	648	648	0.01	0.10	0.33	677
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.63	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	248	248	< 0.005	< 0.005	0.09	249
Vendor	0.01	0.01	0.25	0.08	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	217	217	< 0.005	0.03	0.05	226
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	41.1	41.1	< 0.005	< 0.005	0.01	41.2
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	35.9	35.9	< 0.005	0.01	0.01	37.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2038) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.30	4.17	0.01	0.05	—	0.05	0.05	—	0.05	—	801	801	0.03	0.01	—	804
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.42	0.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	133	133	0.01	< 0.005	—	133
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.13	0.09	2.57	0.00	0.00	0.90	0.90	0.00	0.21	0.21	—	814	814	0.01	< 0.005	0.62	816
Vendor	0.02	0.02	0.70	0.25	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	648	648	0.01	0.10	0.33	677
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.63	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	248	248	< 0.005	< 0.005	0.09	249
Vendor	0.01	0.01	0.25	0.08	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	217	217	< 0.005	0.03	0.05	226
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	41.1	41.1	< 0.005	< 0.005	0.01	41.2
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	35.9	35.9	< 0.005	0.01	0.01	37.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Paving (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.98	0.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.98	0.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.2	37.2	< 0.005	< 0.005	—	37.4
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.52	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	166	166	< 0.005	< 0.005	0.13	167
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	< 0.005	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.75	3.75	< 0.005	< 0.005	< 0.005	3.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Paving (2038) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.98	0.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.98	0.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.2	37.2	< 0.005	< 0.005	—	37.4
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.52	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	166	166	< 0.005	< 0.005	0.13	167
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	< 0.005	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	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.75	3.75	< 0.005	< 0.005	< 0.005	3.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Architectural Coating (2038) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.75	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	94.5	94.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.29	3.29	< 0.005	< 0.005	—	3.30
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.55	0.55	< 0.005	< 0.005	—	0.55
Architectural Coatings	0.43	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	143	143	< 0.005	< 0.005	< 0.005	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.67

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Architectural Coating (2038) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.75	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	94.5	94.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.29	3.29	< 0.005	< 0.005	—	3.30

Architectural	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.55	0.55	< 0.005	< 0.005	—	0.55
Architectural Coatings	0.43	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	143	143	< 0.005	< 0.005	< 0.005	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234
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	0.00
Total	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
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	0.00
Total	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330
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	0.00
Total	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234
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	0.00
Total	0.50	0.43	6.54	8.60	0.08	0.12	4.66	4.78	0.11	1.21	1.32	—	7,963	7,963	0.06	0.89	6.30	8,234
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
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	0.00
Total	0.47	0.40	7.07	6.19	0.07	0.12	4.66	4.78	0.11	1.21	1.32	—	7,685	7,685	0.07	0.89	0.16	7,953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrig Warehouse-No Rail	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330
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	0.00
Total	0.09	0.07	1.26	1.22	0.01	0.02	0.84	0.86	0.02	0.22	0.24	—	1,285	1,285	0.01	0.15	0.45	1,330

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,049	1,049	0.17	0.02	—	1,059
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	71.8	71.8	0.01	< 0.005	—	72.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,120	1,120	0.18	0.02	—	1,132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,049	1,049	0.17	0.02	—	1,059
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	71.8	71.8	0.01	< 0.005	—	72.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,120	1,120	0.18	0.02	—	1,132

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	11.9	11.9	< 0.005	< 0.005	—	12.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	186	186	0.03	< 0.005	—	187

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,049	1,049	0.17	0.02	—	1,059
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	71.8	71.8	0.01	< 0.005	—	72.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,120	1,120	0.18	0.02	—	1,132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,049	1,049	0.17	0.02	—	1,059
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	71.8	71.8	0.01	< 0.005	—	72.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,120	1,120	0.18	0.02	—	1,132

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	11.9	11.9	< 0.005	< 0.005	—	12.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	186	186	0.03	< 0.005	—	187

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
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
Total	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
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
Total	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.5	49.5	< 0.005	< 0.005	—	49.6
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
Total	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.5	49.5	< 0.005	< 0.005	—	49.6

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
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
Total	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300
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
Total	0.03	0.01	0.25	0.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	299	299	0.03	< 0.005	—	300

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.5	49.5	< 0.005	< 0.005	—	49.6
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
Total	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.5	49.5	< 0.005	< 0.005	—	49.6

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.35	1.25	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Total	1.60	1.49	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.12	0.11	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56
Total	0.17	0.16	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	1.35	1.25	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Total	1.60	1.49	0.06	7.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.2	31.2	< 0.005	< 0.005	—	31.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.12	0.11	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56
Total	0.17	0.16	0.01	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.55	2.55	< 0.005	< 0.005	—	2.56

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	12.8	15.6	28.4	1.32	0.03	—	70.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.8	15.6	28.4	1.32	0.03	—	70.7

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	77.4	94.1	171	7.95	0.19	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	12.8	15.6	28.4	1.32	0.03	—	70.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.8	15.6	28.4	1.32	0.03	—	70.7

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.85	0.00	—	310
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	3/16/2038	3/22/2038	5.00	5.00	—
Grading	Grading	3/23/2038	4/8/2038	5.00	13.0	—
Building Construction	Building Construction	4/9/2038	9/27/2038	5.00	122	—
Paving	Paving	9/28/2038	10/8/2038	5.00	9.00	—
Architectural Coating	Architectural Coating	10/11/2038	10/21/2038	5.00	9.00	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. 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
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Grading	Tractors/Loaders/Back	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	73.4	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	28.6	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	14.7	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	17.5	17.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.6	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	17.3	LDA,LDT1,LDT2
Grading	Vendor	—	10.6	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	73.4	17.3	LDA,LDT1,LDT2
Building Construction	Vendor	28.6	10.6	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	17.3	LDA,LDT1,LDT2
Paving	Vendor	—	10.6	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	14.7	17.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.6	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	0.00	0.00	262,080	87,360	8,797

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)

Site Preparation	—	—	7.50	0.00	—
Grading	—	—	39.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.37

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	2.43	100%
Parking Lot	0.94	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2038	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	266	266	266	96,935	6,107	6,107	6,107	2,229,219
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Unrefrigerated Warehouse-No Rail	266	266	266	96,935	6,107	6,107	6,107	2,229,219
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

5.10.1.2. Mitigated

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)
0	0.00	262,080	87,360	8,797

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)
Unrefrigerated Warehouse-No Rail	1,876,461	204	0.0330	0.0040	931,983
Parking Lot	92,725	204	0.0330	0.0040	0.00
Parking Lot	35,716	204	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)
Unrefrigerated Warehouse-No Rail	1,876,461	204	0.0330	0.0040	931,983
Parking Lot	92,725	204	0.0330	0.0040	0.00
Parking Lot	35,716	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	40,404,000	3,776,062
Parking Lot	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Unrefrigerated Warehouse-No Rail	40,404,000	3,776,062
Parking Lot	0.00	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)
Unrefrigerated Warehouse-No Rail	164	—
Parking Lot	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	164	—
Parking Lot	0.00	—
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition, construction schedule provided by Project applicant
Operations: Vehicle Data	Trip rates calculated separately based on traffic study. 50 mile distance used for truck trips. Trip percentages adjusted based on traffic study values.
Operations: Fleet Mix	Percentages adjusted based on traffic study and vehicle miles traveled calculation
Operations: Consumer Products	Industrial portion of default consumer products VOC factor
Land Use	Acreage updated to match total parcel acreage

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5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Malibu Vineyards_1-P12
Construction Start Date	1/28/2030
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	18.0
Location	35.465256459930885, -119.11080656647529
County	Kern-San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2898
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	232	1000sqft	19.6	231,826	398,050	0.00	—	Phase 1 - Parcel 12

Parking Lot	166	Space	1.49	0.00	0.00	0.00	—	Standard Parking
Parking Lot	200	Space	1.80	0.00	0.00	0.00	—	Truck Parking (100 lots)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.51	1.27	9.79	18.3	0.03	0.28	1.53	1.81	0.26	0.37	0.63	—	4,681	4,681	0.12	0.19	4.60	4,746
Mit.	1.51	1.27	9.79	18.3	0.03	0.28	1.53	1.81	0.26	0.37	0.63	—	4,681	4,681	0.12	0.19	4.60	4,746
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	93.1	93.0	25.3	29.0	0.06	1.07	19.9	20.9	0.98	10.2	11.1	—	6,811	6,811	0.27	0.23	0.12	6,836
Mit.	93.1	93.0	25.3	29.0	0.06	1.07	5.32	6.39	0.98	2.68	3.66	—	6,811	6,811	0.27	0.23	0.12	6,836

% Reduced	—	—	—	—	—	—	73%	69%	—	74%	67%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.99	3.85	6.15	9.85	0.02	0.19	1.51	1.70	0.18	0.54	0.71	—	2,534	2,534	0.08	0.11	0.91	2,568
Mit.	3.99	3.85	6.15	9.85	0.02	0.19	0.91	1.11	0.18	0.27	0.44	—	2,534	2,534	0.08	0.11	0.91	2,568
% Reduced	—	—	—	—	—	—	39%	35%	—	50%	38%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.73	0.70	1.12	1.80	< 0.005	0.04	0.28	0.31	0.03	0.10	0.13	—	419	419	0.01	0.02	0.15	425
Mit.	0.73	0.70	1.12	1.80	< 0.005	0.04	0.17	0.20	0.03	0.05	0.08	—	419	419	0.01	0.02	0.15	425
% Reduced	—	—	—	—	—	—	39%	35%	—	50%	38%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.51	1.27	9.79	18.3	0.03	0.28	1.53	1.81	0.26	0.37	0.63	—	4,681	4,681	0.12	0.19	4.60	4,746
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	93.1	93.0	25.3	29.0	0.06	1.07	19.9	20.9	0.98	10.2	11.1	—	6,811	6,811	0.27	0.23	0.12	6,836
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.99	3.85	6.15	9.85	0.02	0.19	1.51	1.70	0.18	0.54	0.71	—	2,534	2,534	0.08	0.11	0.91	2,568
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.73	0.70	1.12	1.80	< 0.005	0.04	0.28	0.31	0.03	0.10	0.13	—	419	419	0.01	0.02	0.15	425

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.51	1.27	9.79	18.3	0.03	0.28	1.53	1.81	0.26	0.37	0.63	—	4,681	4,681	0.12	0.19	4.60	4,746
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	93.1	93.0	25.3	29.0	0.06	1.07	5.32	6.39	0.98	2.68	3.66	—	6,811	6,811	0.27	0.23	0.12	6,836
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.99	3.85	6.15	9.85	0.02	0.19	0.91	1.11	0.18	0.27	0.44	—	2,534	2,534	0.08	0.11	0.91	2,568
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.73	0.70	1.12	1.80	< 0.005	0.04	0.17	0.20	0.03	0.05	0.08	—	419	419	0.01	0.02	0.15	425

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.03	2.72	10.5	24.1	0.12	0.22	6.18	6.41	0.21	1.60	1.82	220	14,175	14,395	22.7	1.66	25.1	15,482
Mit.	3.03	2.72	10.5	24.1	0.12	0.22	6.18	6.41	0.21	1.60	1.82	220	14,175	14,395	22.7	1.66	25.1	15,482
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.17	1.01	11.3	10.2	0.11	0.21	6.18	6.39	0.20	1.60	1.80	220	13,728	13,948	22.7	1.67	0.65	15,013

Mit.	1.17	1.01	11.3	10.2	0.11	0.21	6.18	6.39	0.20	1.60	1.80	220	13,728	13,948	22.7	1.67	0.65	15,013
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.07	1.84	11.0	15.9	0.12	0.22	6.12	6.33	0.21	1.59	1.79	220	13,860	14,080	22.7	1.66	10.8	15,154
Mit.	2.07	1.84	11.0	15.9	0.12	0.22	6.12	6.33	0.21	1.59	1.79	220	13,860	14,080	22.7	1.66	10.8	15,154
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.38	0.33	2.01	2.91	0.02	0.04	1.12	1.16	0.04	0.29	0.33	36.5	2,295	2,331	3.76	0.28	1.79	2,509
Mit.	0.38	0.33	2.01	2.91	0.02	0.04	1.12	1.16	0.04	0.29	0.33	36.5	2,295	2,331	3.76	0.28	1.79	2,509
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.88	0.73	10.1	13.7	0.12	0.18	6.18	6.37	0.17	1.60	1.78	—	12,149	12,149	0.13	1.38	25.1	12,587
Area	2.11	1.97	0.08	10.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	41.5	41.5	< 0.005	< 0.005	—	41.6
Energy	0.04	0.02	0.33	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,858	1,858	0.27	0.03	—	1,874
Water	—	—	—	—	—	—	—	—	—	—	—	103	127	230	10.6	0.25	—	569
Waste	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Total	3.03	2.72	10.5	24.1	0.12	0.22	6.18	6.41	0.21	1.60	1.82	220	14,175	14,395	22.7	1.66	25.1	15,482
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.82	0.67	11.0	9.89	0.11	0.18	6.18	6.37	0.17	1.60	1.78	—	11,743	11,743	0.13	1.39	0.65	12,160
Area	0.32	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.02	0.33	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,858	1,858	0.27	0.03	—	1,874
Water	—	—	—	—	—	—	—	—	—	—	—	103	127	230	10.6	0.25	—	569
Waste	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Total	1.17	1.01	11.3	10.2	0.11	0.21	6.18	6.39	0.20	1.60	1.80	220	13,728	13,948	22.7	1.67	0.65	15,013
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.83	0.68	10.7	10.7	0.11	0.18	6.12	6.30	0.17	1.59	1.76	—	11,854	11,854	0.13	1.38	10.8	12,280
Area	1.20	1.13	0.04	4.97	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.4	20.4	< 0.005	< 0.005	—	20.5
Energy	0.04	0.02	0.33	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,858	1,858	0.27	0.03	—	1,874
Water	—	—	—	—	—	—	—	—	—	—	—	103	127	230	10.6	0.25	—	569
Waste	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Total	2.07	1.84	11.0	15.9	0.12	0.22	6.12	6.33	0.21	1.59	1.79	220	13,860	14,080	22.7	1.66	10.8	15,154
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	0.12	1.95	1.95	0.02	0.03	1.12	1.15	0.03	0.29	0.32	—	1,963	1,963	0.02	0.23	1.79	2,033
Area	0.22	0.21	0.01	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.39	3.39	< 0.005	< 0.005	—	3.40
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	308	308	0.04	< 0.005	—	310
Water	—	—	—	—	—	—	—	—	—	—	—	17.0	21.0	38.0	1.75	0.04	—	94.2
Waste	—	—	—	—	—	—	—	—	—	—	—	19.4	0.00	19.4	1.94	0.00	—	68.0
Total	0.38	0.33	2.01	2.91	0.02	0.04	1.12	1.16	0.04	0.29	0.33	36.5	2,295	2,331	3.76	0.28	1.79	2,509

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.88	0.73	10.1	13.7	0.12	0.18	6.18	6.37	0.17	1.60	1.78	—	12,149	12,149	0.13	1.38	25.1	12,587

Area	2.11	1.97	0.08	10.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	41.5	41.5	< 0.005	< 0.005	—	41.6
Energy	0.04	0.02	0.33	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,858	1,858	0.27	0.03	—	1,874
Water	—	—	—	—	—	—	—	—	—	—	—	103	127	230	10.6	0.25	—	569
Waste	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Total	3.03	2.72	10.5	24.1	0.12	0.22	6.18	6.41	0.21	1.60	1.82	220	14,175	14,395	22.7	1.66	25.1	15,482
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.82	0.67	11.0	9.89	0.11	0.18	6.18	6.37	0.17	1.60	1.78	—	11,743	11,743	0.13	1.39	0.65	12,160
Area	0.32	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.02	0.33	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,858	1,858	0.27	0.03	—	1,874
Water	—	—	—	—	—	—	—	—	—	—	—	103	127	230	10.6	0.25	—	569
Waste	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Total	1.17	1.01	11.3	10.2	0.11	0.21	6.18	6.39	0.20	1.60	1.80	220	13,728	13,948	22.7	1.67	0.65	15,013
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.83	0.68	10.7	10.7	0.11	0.18	6.12	6.30	0.17	1.59	1.76	—	11,854	11,854	0.13	1.38	10.8	12,280
Area	1.20	1.13	0.04	4.97	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.4	20.4	< 0.005	< 0.005	—	20.5
Energy	0.04	0.02	0.33	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,858	1,858	0.27	0.03	—	1,874
Water	—	—	—	—	—	—	—	—	—	—	—	103	127	230	10.6	0.25	—	569
Waste	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Total	2.07	1.84	11.0	15.9	0.12	0.22	6.12	6.33	0.21	1.59	1.79	220	13,860	14,080	22.7	1.66	10.8	15,154
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	0.12	1.95	1.95	0.02	0.03	1.12	1.15	0.03	0.29	0.32	—	1,963	1,963	0.02	0.23	1.79	2,033
Area	0.22	0.21	0.01	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.39	3.39	< 0.005	< 0.005	—	3.40
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	308	308	0.04	< 0.005	—	310
Water	—	—	—	—	—	—	—	—	—	—	—	17.0	21.0	38.0	1.75	0.04	—	94.2
Waste	—	—	—	—	—	—	—	—	—	—	—	19.4	0.00	19.4	1.94	0.00	—	68.0
Total	0.38	0.33	2.01	2.91	0.02	0.04	1.12	1.16	0.04	0.29	0.33	36.5	2,295	2,331	3.76	0.28	1.79	2,509

3. Construction Emissions Details

3.1. Site Preparation (2030) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	2.92	25.2	28.4	0.05	1.07	—	1.07	0.98	—	0.98	—	5,296	5,296	0.21	0.04	—	5,314
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	102	102	< 0.005	< 0.005	—	102
Dust From Material Movement	—	—	—	—	—	—	0.38	0.38	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.01	0.01	0.09	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.61	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	188	188	< 0.005	0.01	0.01	190
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	< 0.005	3.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2030) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	2.92	25.2	28.4	0.05	1.07	—	1.07	0.98	—	0.98	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	102	102	< 0.005	< 0.005	—	102
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.9
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.61	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	188	188	< 0.005	0.01	0.01	190
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	< 0.005	3.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2030) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	3.23	2.72	21.7	26.9	0.06	0.88	—	0.88	0.81	—	0.81	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.15	0.13	1.01	1.25	< 0.005	0.04	—	0.04	0.04	—	0.04	—	307	307	0.01	< 0.005	—	308
Dust From Material Movement	—	—	—	—	—	—	0.43	0.43	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.02	0.18	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	50.9	50.9	< 0.005	< 0.005	—	51.0
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.70	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	215	215	< 0.005	0.01	0.01	217
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.01	10.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.74
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2030) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.23	2.72	21.7	26.9	0.06	0.88	—	0.88	0.81	—	0.81	—	6,596	6,596	0.27	0.05	—	6,619

Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.01	1.25	< 0.005	0.04	—	0.04	0.04	—	0.04	—	307	307	0.01	< 0.005	—	308
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.18	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	50.9	50.9	< 0.005	< 0.005	—	51.0
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.70	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	215	215	< 0.005	0.01	0.01	217

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.01	10.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.74
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2030) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	3.75	5.75	0.01	0.12	—	0.12	0.11	—	0.11	—	1,070	1,070	0.04	0.01	—	1,074
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.68	1.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	177	177	0.01	< 0.005	—	178
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.30	0.24	5.02	0.00	0.00	1.19	1.19	0.00	0.28	0.28	—	1,189	1,189	0.01	0.01	2.67	1,194
Vendor	0.04	0.03	1.16	0.38	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,095	1,095	0.01	0.17	1.93	1,147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.27	0.28	3.42	0.00	0.00	1.19	1.19	0.00	0.28	0.28	—	1,045	1,045	0.02	0.04	0.07	1,058
Vendor	0.04	0.03	1.25	0.39	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,096	1,096	0.01	0.17	0.05	1,146
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.12	1.67	0.00	0.00	0.53	0.53	0.00	0.12	0.12	—	484	484	0.01	0.02	0.51	491
Vendor	0.02	0.01	0.54	0.17	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	489	489	0.01	0.07	0.37	512

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.31	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	80.2	80.2	< 0.005	< 0.005	0.09	81.3
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	81.0	81.0	< 0.005	0.01	0.06	84.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2030) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	3.75	5.75	0.01	0.12	—	0.12	0.11	—	0.11	—	1,070	1,070	0.04	0.01	—	1,074

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.68	1.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	177	177	0.01	< 0.005	—	178
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.30	0.24	5.02	0.00	0.00	1.19	1.19	0.00	0.28	0.28	—	1,189	1,189	0.01	0.01	2.67	1,194
Vendor	0.04	0.03	1.16	0.38	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,095	1,095	0.01	0.17	1.93	1,147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.27	0.28	3.42	0.00	0.00	1.19	1.19	0.00	0.28	0.28	—	1,045	1,045	0.02	0.04	0.07	1,058
Vendor	0.04	0.03	1.25	0.39	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,096	1,096	0.01	0.17	0.05	1,146
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.12	1.67	0.00	0.00	0.53	0.53	0.00	0.12	0.12	—	484	484	0.01	0.02	0.51	491
Vendor	0.02	0.01	0.54	0.17	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	489	489	0.01	0.07	0.37	512
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.31	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	80.2	80.2	< 0.005	< 0.005	0.09	81.3
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	81.0	81.0	< 0.005	0.01	0.06	84.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00