ATTACHMENT 5

City of Manteca
Development Services Department

Batched General Plan Amendment Project (Sites 1-4)

Administrative Draft Addendum

April 2026

Prepared By

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ATTACHMENT 5

ADDENDUM TO AN ADOPTED ENVIRONMENTAL IMPACT REPORT

The City of Manteca, California, a municipal corporation, does hereby prepare, make, declare, and publish the Addendum to an adopted Environmental Impact Report (EIR) for the following described project:

Project Name: Batched General Plan Amendment Project (Sites 1-4)

Original Project: City of Manteca General Plan EIR (SCH #2020019010)

The City of Manteca, Development Services Department, has reviewed the proposed project and on the basis of the whole record before it, has determined that pursuant to CEQA Guidelines Section 15162, substantial changes have not occurred with respect to the circumstances under which the City of Manteca General Plan EIR (General Plan EIR) was adopted, and new available information does not exist, which was not known and could not have been known at the time that the EIR was adopted. The project, as identified in this Addendum, would not have a significant effect on the environment beyond that which was evaluated in the General Plan EIR. This document demonstrates that further environmental review is not required given that the proposed modifications to the approved project would not trigger the applicable criteria set forth in the CEQA Guidelines Section 15162.

This Addendum to the General Plan EIR, has been prepared pursuant to Title 14, Section 15164 of the California Code of Regulations and City of Manteca environmental standards.

A copy of this document and all supportive documentation may be reviewed or obtained at the City of Manteca, Development Services Department, 1001 West Center Street, Manteca, California, 95337.

Development Service Director, City of Manteca, California, a municipal corporation

By: _____

Date: _____

Batched General Plan Amendment Project (Sites 1-4)
Addendum to the City of Manteca General Plan EIR

Project Name: Batched General Plan Amendment Project (Sites 1-4)

Project Location and Surrounding Land Uses: The proposed project consists of four individual project sites across Manteca, California, as shown in Figure 1. Each project site is detailed below.

Site 1: Commercial – Right-of-Way (ROW) Acquisition
The approximately 2.46-acre project site, identified by Assessor's Parcel Numbers (APNs) 241-410-18, -19 and -20, is located northwest of the intersection of Bronzan Road and South McKinley Avenue (see Figure 2). Site 1 is currently undeveloped. Surrounding existing land uses include undeveloped land and State Route (SR) 120 to the north, undeveloped land to the east, undeveloped land and a single-family residence to the south, and single-family residences to the west.

Site 2: School District Site Swap
The approximately 28.2-acre project site, identified by APNs 241-260-13 and -33, is located northeast of the intersection of Woodward Avenue and Joshua Street (see Figure 3). Site 2 is currently undeveloped. The project site is bound to the north and west by Joshua Street, to the east by Yukon Territory Avenue, and to the south by Woodward Avenue. Surrounding existing land uses include single-family residences and undeveloped land to the north, single-family residences, undeveloped land, and Laurel Park to the east, and single-family residences to the south and west.

Site 3: Fire Station 3 – Relocation Site
The approximately 1.77-acre project site, identified by APN 218-210-26, and is located northeast of the intersection of North Main Street and Lancaster Drive (see Figure 4). An existing unoccupied office building is located along the southern boundary of the project site; the remainder of the project site is currently undeveloped. The project site is bound to the west by North Main Street. Surrounding existing land uses include single-family residences to the north, a self-storage facility to the east, a park to the northeast, commercial uses to the south, and commercial uses and a charter school to the west.

Site 4: Cardoza Housing Property
The approximately 1.57-acre site, identified by APNs 223-020-28, is located southeast of the intersection of North Main Street and Jason Street (see Figure 5). The northern portion of the project stie is currently developed with an existing NAPA Auto Parts warehouse and auto body shop, and the southern portion of the project site is currently undeveloped. The project site is bound to the east by North Grant Avenue and to the west by North Main Street. Surrounding existing land uses include single-family residences and commercial uses to the north, single-family residences to the east, an elementary school to the northeast, single-family residences and commercial uses to the south, and commercial uses and Golden West School to the west.

Existing Plan Designations and Zoning: The existing General Plan land use designations and zoning for each site is detailed below.

Site 1: Commercial – ROW Acquisition
The City of Manteca General Plan designates Site 1 (2.46 acres) as Low Density Residential (LDR) and the site is zoned One-Family Dwelling Zoning District (R-1).

Figure 1
Regional Project Location

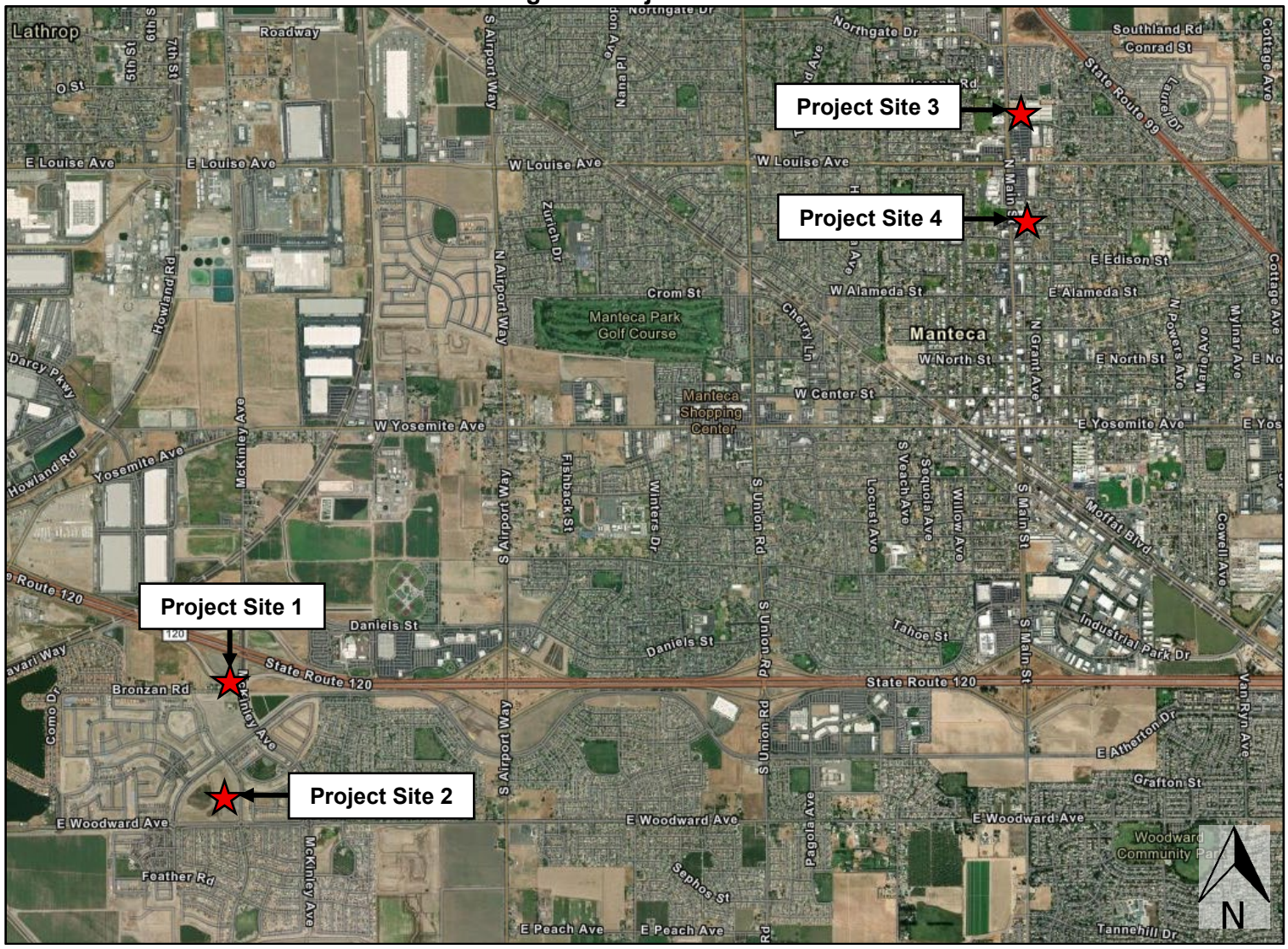

Figure 2
Site 1 Boundaries

Figure 3
Site 2 Boundaries

Figure 4
Site 3 Boundaries

Figure 5
Site 4 Boundaries

Site 2: School District Site Swap
Site 2 is comprised of two parcels, APN 241-260-13 (16.98 acres) and -33 (11.22 acres). The City of Manteca General Plan designates APN 241-260-13 as Public/Quasi-Public (PQP), and the parcel is zoned Multiple-Family Dwelling Residential Zoning District (R-3) and PQP. In addition, the City of Manteca General Plan designates APN 241-260-33 as High Density Residential (HDR) and the parcel is zoned R-3.

Site 3: Fire Station 3 – Relocation Site
The City of Manteca General Plan designates Site 3 (1.77 acres) as Commercial (C) and the site is zoned General Commercial (CG).

Site 4: Cardoza Housing Property
The City of Manteca General Plan designates Site 4 (1.57 acres) as C and the site is zoned CG.

Project Background: The City of Manteca 2043 General Plan and associated EIR were approved by the City of Manteca in February 2024. The City of Manteca General Plan EIR evaluated full implementation and buildout of the General Plan and identified measures to mitigate the significant adverse impacts associated with the General Plan. The General Plan includes future development projects, infrastructure improvements, and the implementation of policies and actions to guide development within the Planning Area. The allowed on-site uses currently identified in the General Plan for each project site are detailed below.

Site 1: Commercial – ROW Acquisition
The City of Manteca General Plan designates Site 1 as LDR. The LDR land use designation provides for a mix of single-family housing, including small lots, clustered lots, attached homes, and conventional large lot detached residences. Residential units within the LDR land use designation are required to be developed at a density range of 2.1 to eight dwelling units per acre (du/ac). Under the existing land use designation, Site 1 could be developed with a maximum of 19 residential units (2.46 acre x eight du/ac).

Site 2: School District Site Swap
The City of Manteca General Plan designates Site 2 as HDR and PQP. The HDR land use designation provides for multi-family townhome, condominium, and apartment style housing and mobile home parks. Residential units within the HDR land use designation are required to be developed at a density range of 20.1 to 30 du/ac. In addition, the PQP land use designation provided for government owned facilities, public and private schools, institutions, civic uses, assembly uses, and public utilities, and quasi-public uses such as hospitals and churches. Non-residential land uses within the PQP land use designation may be developed with a maximum floor area ratio (FAR) of 0.5, and sites designated as PQP are permitted to develop a maximum site coverage up to 50 percent. Under the existing land use designations, Site 2 could be developed with a maximum of 336 residential units (11.22 acres x 30 du/ac), and approximately 369,824 square feet (sf) of PQP uses (16.98 acres x 43,560 sf per acre [sf/ac] x 0.5 FAR).

Site 3: Fire Station 3 – Relocation Site
The City of Manteca General Plan designates Site 3 as C. The C land use designation provides for neighborhood, community, and regional-serving retail and service uses; offices; restaurants; service stations; highway-oriented and visitor commercial and lodging; auto-serving and heavy commercial uses; wholesale; warehousing; public and quasi-public uses; commercial recreation and public gathering facilities, such as amphitheaters or public gardens; and similar and compatible uses. Non-residential land uses within the C land use designation may be developed with a maximum FAR of

0.6, and sites designated as C are permitted to develop a maximum site coverage up to 50 percent. Under the existing land use designation, Site 3 could be developed with a maximum of approximately 46,260.7 sf of commercial uses (1.77 acre x 43,560 sf/ac x 0.6 FAR).

Site 4: Cardoza Housing Property

The City of Manteca General Plan designates Site 4 as C. The C land use designation provides for neighborhood, community, and regional-serving retail and service uses; offices; restaurants; service stations; highway-oriented and visitor commercial and lodging; auto-serving and heavy commercial uses; wholesale; warehousing; public and quasi-public uses; commercial recreation and public gathering facilities, such as amphitheaters or public gardens; and similar and compatible uses. Non-residential land uses within the C land use designation may be developed with a maximum FAR of 0.6, and sites designated as C are permitted to develop a maximum site coverage up to 50 percent. Under the existing land use designation, Site 4 could be developed with a maximum of approximately 41,033 sf of commercial uses (1.57 acre x 43,560 sf/ac x 0.6 FAR).

Project Description: The City of Manteca is seeking to prepare CEQA documentation for five projects to be considered as a Batched General Plan Amendment (GPA). A "Batched GPA" refers to an amendment to the current General Plan that includes multiple changes under a single action consistent with Government Code 65358(b). GPA Batch One would include three capital improvement projects (Sites 1, 2, and 3) and GPA Batch Two would include two non-capital improvement projects (Sites 4 and 5) intended to streamline housing opportunities. Each project included within GPA Batch One and Two would also include an appropriate rezone to reflect each project's amended General Plan designation. Potential increases in residential units as a result of the proposed GPAs would balance the loss of any residential land use designations as part of both GPA Batch One and Two. The GPAs analyzed within this addendum would include three capital improvement projects and one non-capital improvement project. The potential environmental effects associated with the remaining non-capital improvement project (Site 5) included in GPA Batch Two will be analyzed in a separate Site 5-specific Initial Study/Mitigated Negative Declaration (IS/MND) (Yosemite Mixed Use Conversion [Batched GPAs Site 5] Project IS/MND). The project details for Sites 1 through 4 are discussed further below.

Site 1: Commercial – ROW Acquisition

The proposed project would include a GPA to change the General Plan land use designation of a one-acre portion of the project site along the southern boundary of Site 1 from LDR to C, as well as a rezone from R-1 to CG. While development of the project site is not currently proposed, future development of the site facilitated by the proposed project would require ROW acquisition from the California Department of Transportation (CalTrans) and approval of a Tentative Parcel Map. However, any future ROW acquisition and Tentative Parcel Map would be processed at a later date, separate from the proposed project. Under the proposed land use designations, the maximum development potential of the site is 11 residential units and 26,136 sf of C uses.

Site 2: School District Site Swap

The proposed project would include a GPA to change the land use designation of a 0.82-acre portion of APN 241-260-13 along the eastern boundary of Site 2 from PQP to HDR, as well as change the land use designation of the northern 1.82 acres of APN 241-260-33 from HDR to PQP. The proposed project would require a rezone of the 0.82-acre portion of APN 241-260-13 from PQP to R-3, as well as a rezone of the northern portion of APN 241-260-33 from R-3 to PQP. Overall, the proposed GPA would result in a total of 10.22 acres of HDR and 17.98 acres of PQP within the two parcels that comprise Site 2. The portion of the project site currently designated as HDR was previously entitled and a Mitigated Negative Declaration was previously approved for the site.

Development of the project site is not currently proposed. However, future development of Site 2 would result in a net decrease of approximately 30 residential units due to the net decrease in HDR-designated acreage on APN 241-260-13. Under the proposed land use designations, the maximum development potential of the site is 306 residential units and 391,604 sf of PQP uses (assumed to be a maximum 348,044 sf high school and 43,560 sf fire station).

Site 3: Fire Station 3 – Relocation Site

The proposed project would include a GPA to change the General Plan land use designation of the northern 1.14 acres of Site 3 from C to PQP, as well as a rezone of the northern portion of the project site from CG to PQP. Development of the project site is not currently proposed. While development of the project site is not currently proposed, future development of the site facilitated by the proposed project would require approval of a Tentative Parcel Map. However, any future Tentative Parcel Map would be processed at a later date, separate from the proposed project. Under the proposed land use designation, the maximum development potential of the site is 16,465.68 sf of C and 24,829.2 sf of PQP uses.

Site 4: Cardoza Housing Property

The proposed project would include a GPA to change the General Plan land use designation of the eastern 0.27 acres of Site 4 from C to Medium Density Residential (MDR), as well as a rezone of the eastern 0.27 acres of project site from CG to Limited Multiple-Family Dwelling Zoning District (R-2). While development of the project site is not currently proposed, future development of the site facilitated by the proposed project would require approval of a Tentative Parcel Map to subdivide the site into three parcels, as well as one remainder parcel, to provide for future development. However, any future Tentative Parcel Map would be processed at a later date, separate from the proposed project. Under the proposed land use designation, the maximum development potential of the site is five residential units and 33,976 sf of C uses.

Project Approvals

The proposed project would require the following entitlements from the City of Manteca:

- Approval of a General Plan Amendment for Sites 1 through 4; and
- Approval of a rezone for Sites 1 through 4.

Environmental Baseline: The purpose of this addendum is to determine if the proposed project would result in new significant impacts or a substantial increase in the severity of significant impacts previously identified in the General Plan EIR as a result of the land use designation changes being proposed as part of this project. Because the General Plan EIR previously analyzed the potential impacts of future development of the sites under their existing land use designations, the City, as the CEQA lead agency, can restrict its review to the incremental effects of the modified land use designations included in the proposed project rather than reconsidering the overall impacts of the proposed project. In other words, because the proposed project is a modification of a previously reviewed and approved project, the CEQA baseline assumes the approved project exists. Thus, the environmental baseline for the following analysis would consist of the approved City of Manteca 2043 General Plan and General Plan EIR.

When considered cumulatively, the proposed GPAs to Sites 1 through 4 would result in a net reduction of one acre LDR, one acre HDR, and 0.41 acres C land uses, and a net increase of 0.27 acres MDR and 2.14 acres PQP land uses. Overall, the proposed GPAs would provide for the future development of 33 fewer residential units beyond what was previously planned in the City.

Rationale for Preparation of the Addendum

In determining whether an addendum is the appropriate document to analyze the modifications to the project and its approval, CEQA Guidelines Section 15164 (Addendum to an Environmental Impact Report [EIR] or Negative Declaration) states:

(a) The lead agency or a responsible agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred.

(b) An addendum to an adopted negative declaration may be prepared if only minor technical changes or additions are necessary or none of the conditions described in Section 15162 calling for the preparation of a subsequent EIR or negative declaration have occurred.

(c) An addendum need not be circulated for public review but can be included in or attached to the final EIR or adopted negative declaration.

(d) The decision-making body shall consider the addendum with the final EIR or adopted negative declaration prior to making a decision on the project.

(e) A brief explanation of the decision not to prepare a subsequent EIR pursuant to Section 15162 should be included in an addendum to an EIR, the lead agency's required findings on the project, or elsewhere in the record. The explanation must be supported by substantial evidence.

New significant effects or other grounds require preparation of a subsequent EIR in support of further agency action on a project pursuant to Public Resources Code Section 21166 and State CEQA Guidelines Sections 15162 and 15163.

Under the guidelines, a subsequent or supplemental EIR or Mitigated Negative Declaration shall be prepared if any of the following criteria are met:

(a) When an EIR has been certified or negative declaration adopted for a project, a subsequent EIR shall not be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:

(1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;

(2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or

(3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:

(A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;

(B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;

(C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or

(D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Use of a Prior Environmental Document:

The California Supreme Court has held that a lead agency has the responsibility of initially deciding whether an original environmental document retains "some relevance" to the ongoing decision-making process. The City of Manteca has determined that the General Plan EIR is relevant and has prepared an addendum to that document to evaluate the proposed project.

In accordance with Sections 15162 through 15164 of the CEQA Guidelines, the proposed project would not require major revisions to the General Plan EIR, due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects. The analysis that follows concludes that none of the conditions identified in CEQA Guidelines Sections 15162 and 15163 apply to the proposed project. Thus, preparation of an addendum would provide the appropriate level of environmental review.

In cases where an approved project has already undergone environmental review, and the environmental document has been certified by the lead agency, the lead agency can restrict its review to the incremental effects of the modified project, rather than having to reconsider the overall impacts of the project. In other words, if the project under review constitutes a modification of a previously approved project previously subjected to environmental review, then the "baseline" for purposes of CEQA is adjusted such that the originally approved project is assumed to exist.[1] Thus, the environmental baseline for the proposed project analysis consists of the previously approved General Plan land use designations for Sites 1 through 4.

It should be noted that under CEQA Guidelines Section 15162(a)(1), the requirements to prepare a subsequent or supplemental EIR are triggered when substantial changes are proposed that will require major revisions of the previous EIR or Negative Declaration. Such language implies that a new or revised mitigation measure that does not require a major revision could be adopted on the basis of an addendum. Similarly, the provisions of CCR Section 15162(a)(3)(c-d) require a subsequent or supplemental EIR only if newly feasible or considerably different mitigation becomes available but is not adopted. Such provisions also imply that newly feasible or different

[1] See Michael H. Remy et al. *Guide to CEQA, 11th Edition*. Point Arena: Solano Press Books (2007), p. 207; Stephen L. Kostka and Michael H. Zischke. *Practice Under the Environmental Quality Act, Second Edition* (Vol. 1). Oakland: Continuing Education of the Bar (2018), p. 12-32; *Benton v. Board of Supervisors* (1st Dist. 1991) 226 Cal. App. 3d 1467.

mitigation can be adopted based on an Addendum, without the need for a subsequent or supplemental EIR.

Discussion

The following sections provide discussions of any potential impacts associated with the proposed project beyond those previously identified in the General Plan EIR. As discussed above, the environmental baseline for the proposed project consists of buildout of the project sites pursuant to the City of Manteca 2043 General Plan. The proposed project would include Batched GPAs to amend the current General Plan land use designations of Sites 1 through 4. Development of the Sites 1 through 4 is not currently proposed. Given the limited scope of changes that would occur as a result of the proposed project in comparison to the General Plan EIR this Addendum provides a detailed evaluation of select CEQA topics potentially affected by the changes, including Air Quality, Greenhouse Gas Emissions, and Transportation. The remaining CEQA topics are appropriately discussed at a lesser level of detail at the end of this section.

Air Quality

The City of Manteca is located within the northern portion of the San Joaquin Valley Air Basin (SJVAB) and is within the jurisdictional boundaries of the San Joaquin Valley Air Pollution Control District (SJVAPCD). The SJVAB area is currently designated as a non-attainment area for the State and federal ozone, State and federal particulate matter 2.5 microns in diameter ($PM_{2.5}$), and State particulate matter 10 microns in diameter (PM_{10}) standards. Because the San Joaquin Valley is currently designated as severe nonattainment and serious nonattainment for ozone and PM_{10} standards, respectively, any increase in such pollutants would contribute to the nonattainment status. The SJVAB is designated attainment or unclassified for all other ambient air quality standards (AAQS). It should be noted that although the U.S. Environmental Protection Agency (EPA) revoked their 1-hour ozone standard in 2005, in May of 2016, the EPA proposed findings that the SJVAB was in attainment of the 1-hour ozone standard.

In compliance with regulations, due to the non-attainment designations of the area, the SJVAPCD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the AAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies. The most recent ozone plan is the 2016 Ozone Plan for the 2008 8-Hour Ozone Standard, which was adopted by the SJVAPCD on June 16, 2016. The California Air Resources Board (CARB) subsequently conducted a public meeting to consider approval of the 2016 Ozone Plan for the 2008 8-Hour Ozone Standard, and approved the plan on July 21, 2016. Additionally, the most recent federal attainment plan for PM is the 2016 Plan for the 1997 $PM_{2.5}$ Standard, which was approved by the District Governing Board on April 16, 2015.

The aforementioned air quality plans contain mobile source controls, stationary source controls, and transportation control measures (TCMs) to be implemented in the region to attain the State and federal standards within the SJVAB. Adopted SJVAPCD rules and regulations, as well as the thresholds of significance, have been developed with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated non-attainment, consistent with applicable air quality plans. The SJVAPCD has established broad significance thresholds associated with the construction and operation emissions for various criteria pollutants including ozone precursors such as reactive organic gases (ROG) and oxides of nitrogen (NO_x), as well as for PM_{10}, $PM_{2.5}$, sulfur oxide (SO_x), and carbon monoxide (CO)

expressed in tons per year. Thus, by exceeding the SJVAPCD's mass emission thresholds for operational emissions of ROG, NO_X, PM_{10}, $PM_{2.5}$, SO_x, or CO a project would be considered to conflict with or obstruct implementation of the SJVAPCD's air quality planning efforts. The SJVAPCD's adopted thresholds of significance for criteria pollutant emissions are presented in Table 1. If the proposed project's emissions exceed the applicable thresholds of significance presented in the table, the project could violate an air quality standard, contribute to an existing or projected air quality violation, or conflict with or obstruct implementation of the applicable air quality plans.

Table 1
SJVAPCD Criteria Pollutant Thresholds of Significance

Pollutant	Construction Emissions (tons/yr)	Operational Emissions (tons/yr)
ROG	10	10
NO_X	10	10
CO	100	100
SO_X	27	27
PM_{10}	15	15
$PM_{2.5}$	15	15

Source: SJVAPCD, November 13, 2020.

In analyzing the effects of the General Plan on air quality emissions and the associated impacts, the General Plan EIR analyzed both temporary impacts related to construction activity and possible long-term impacts associated with General Plan buildout, starting on page 3.3-1. The General Plan EIR concluded that, even with implementation of the measures included in the General Plan, buildout of the General Plan would conflict with or obstruct implementation of the applicable air quality plan. In addition, the General Plan EIR concluded that mitigation measures that would limit population or vehicle miles traveled (VMT) growth to the levels assumed in the applicable air quality plans in order to ensure consistency with such plans would conflict with the General Plan's goals. Therefore, impacts were determined to remain significant and unavoidable. As noted on page 3.3-48 of the General Plan EIR, implementation of several General Plan Polices, such as LU-3.9 and RC-5.2 would help protect sensitive receptors from exposure to air pollutants. Therefore, the impact related to exposing sensitive receptors to substantial pollutant concentrations would be less than significant with mitigation. Finally, the General Plan EIR concluded that compliance with General Plan Policies would ensure that buildout of the General Plan would not create objectionable odors that would affect neighboring properties, resulting in a less-than-significant impact with mitigation.

To streamline the process of assessing significance of criteria pollutant emissions from common projects, the SJVAPCD has developed the screening tool, Small Project Analysis Level (SPAL). By using project type and size, the SJVAPCD has pre-quantified mass emissions and determined a size below which mass emissions from a project would be reasonably considered not to exceed the thresholds of significance presented above for criteria pollutants. Projects less than the sizes identified by the SJVAPCD are deemed to have a less-than-significant impact on air quality due to criteria pollutant mass emissions and are excluded from quantifying criteria pollutant emissions for CEQA purposes. Therefore, the maximum allowable development for each site individually was screened against SPAL screening tool. The SPAL for the Single-Family Housing land use is 155-dwelling units, the SPAL for the Office Park land use is 190,000 sf and the SPAL for the Government Office Building land use is 40,000 sf. The maximum allowable development of Site 1 would result in 11 single-family residential units and 26,136 sf of Office Park development. Therefore, Site 1 would not exceed the SPAL for the Single-Family Housing and Office Park land

uses. Additionally, the maximum allowable buildout of Site 3 would result in 24,829 sf of Government Office Building development and 16,466 sf of Office Park land use, which would not exceed the 40,000-sf SPAL for the Government Office Building land use or the 190,000 sf for the Office Park land use. The maximum allowable buildout of Site 4 would result in five single-family residential units and 33,976 sf of Office Park development. Therefore, Site 4 would not exceed the 155-dwelling units SPAL for the Single-Family Housing or the 190,000 sf for the Office Park land uses. Therefore, the maximum allowable development on Site 1, Site 3, and Site 4 would not exceed SJVAPCD thresholds of significance.

However, the SPAL for the Mid-Rise Apartment land use is 225 dwelling units, the SPAL for the High School land use is 153,600 sf, and the SPAL for the Government Office Building land use is 40,000 sf. The maximum allowable development of Site 2 would result in 306 mid-rise apartment units and 391,604 sf of PQP development (which, for the purposes of this analysis, is assumed to be a 348,044 sf high school, and a 43,560 sf fire station [i.e., Government Office Building land use]). Therefore, the maximum allowable development of Site 2 would exceed the SPAL, and further analysis of the site is required, as presented below.

As discussed above, the environmental baseline for this Addendum is the approved City of Manteca General Plan EIR (approved project). Thus, to demonstrate the net increase in criteria pollutant emissions associated with Site 2, a comparative analysis of the approved project and proposed project emissions resulting from maximum allowable development of Site 2 has been conducted.

In order to determine the change in criteria pollutant emissions that would occur with implementation of the proposed project for Site 2, air quality emissions were estimated using the California Emissions Estimator Model (CalEEMod) version 2022.1.1.39 software for both the previously approved project and the currently proposed project. Table 2 presents the maximum unmitigated construction emissions associated with the previously approved project as well as the proposed project, as compared to the applicable SJVAPD thresholds of significance.

As presented in Table 2, the Site 2 would result in a net decrease in construction-related emissions of ROG, CO, and PM_{10} as compared to the approved project for Site 2, and similar emissions of NO_X, SO_X, and $PM_{2.5}$. Additionally, the total construction-related criteria pollutant emissions associated with Site 2 would be below the applicable thresholds of significance for all criteria pollutants. Therefore, the maximum development of Site 2 would not result in any new or more severe significant impacts related to construction criteria pollutant emissions from what was previously analyzed in the City of Manteca General Plan EIR.

Table 2
Maximum Unmitigated Construction Emissions (tons/yr) - Site 2

	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Approved Project	1.48	1.91	4.23	0.006	0.67	0.26
Proposed Project	1.45	1.91	4.13	0.006	0.64	0.26
Net Change	*-0.03*	-	*-0.10*	-	*-0.03*	-
Threshold of Significance	**10**	**10**	**100**	**27**	**15**	**15**
Exceeds Threshold?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Source: CalEEMod, March 2026 (see Attachment 1).						

It should be noted that all development within the SJVAPCD, including the proposed project, is required to comply with all applicable SJVAPCD rules and regulations, including, but not limited to, Regulation VIII (Fugitive PM_{10} Prohibition), Rule 4101 (Visible Emissions), Rule 4601 (Architectural Coatings), Rule 4641 (Cutback Slow Cure, Emulsified Asphalt, Paving and Maintenance Operations), and Rule 4102 (Nuisance). Compliance with the aforementioned regulations would help to reduce criteria pollutant emissions associated with construction activities. Although SJVAPCD requires that all construction activity within the SJVAB implement the above listed rules and regulations, both the approved conditions and the proposed conditions of Site 2 were modeled without the inclusion of such measures to provide a conservative, worst-case emissions estimate.

Table 3 presents the maximum unmitigated operational emissions associated with the approved project in comparison to the maximum unmitigated operational emissions associated with the proposed project for Site 2.

Table 3
Maximum Unmitigated Operational Emissions (tons/yr) – Site 2

	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Approved Project	7.04	4.22	30.20	0.075	5.89	1.91
Proposed Project	7.15	4.34	30.90	0.077	6.07	1.93
Net Change	*+0.11*	*+0.12*	*+0.70*	*+0.002*	*+0.18*	*+0.02*
Threshold of Significance	**10**	**10**	**100**	**27**	**15**	**15**
Exceeds Threshold?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Source: CalEEMod, March 2026 (see Attachment 1).						

As presented in Table 3, maximum development of Site 2 would result in a net increase in operational criteria pollutant emissions of ROG, NO_X, CO, SO_X, $PM_{2.5}$, and PM_{10}. However, the net increase in operational emissions associated with Site 2, as well as the total operational emissions associated with Site 2, would be below the applicable thresholds of significance for all criteria pollutants. Therefore, maximum development of Site 2 would not result in any new or substantially more severe significant impacts related to operational criteria pollutant emissions from what was previously analyzed in the City of Manteca General Plan EIR.

While the proposed project would allow for the future development of the project sites, the proposed project does not include any site-specific development plans, designs, or proposals at this time. Any future development facilitated by the proposed project would be required to adhere to General Plan policies related to air quality, as well as federal, State, and regional air quality plans. Specifically, General Plan Policy RC-5.1 requires the City of Manteca to review new development for potentially significant air quality and climate change impacts and require projects to implement adequate, appropriate and cost-effective mitigation measures to reduce potentially significant impacts. Furthermore, future on-site development would be required to comply with all SJVAPCD rules and regulations, as discussed above.

Additionally, the cumulative change in criteria pollutant emissions resulting from maximum allowable development of Site 1, Site 2, Site 3, and Site 4 of this Addendum, as well as Site 5 analyzed further within the Site 5-specific IS/MND (Yosemite Mixed Use Conversion [Batched GPAs Site 5] Project), was estimated using CalEEMod. Table 4 presents the maximum unmitigated operational emissions associated with the cumulative approved project in comparison to the maximum unmitigated operational emissions associated with the cumulative proposed project for all sites (GPA Batch One and Two). Given that the General Plan EIR concluded impacts

related to air quality emissions would remain significant and unavoidable, even with the implementation of General Plan policies, the analysis of the cumulative emissions presented herein is focused on whether the net change in criteria pollutant emissions would result in a significant impact (i.e., whether the net change in criteria pollutant emissions would exceed the SJVAPCD thresholds of significance).

As shown in Table 4, while the proposed project would result in a net increase in criteria pollutant emissions as compared to the approved project, the cumulative net increase from the approved project would be below the applicable SJVAPD thresholds of significance for all criteria pollutants. The analysis of the cumulative change in emissions was based off maximum allowable development of the sites; however, it is likely that all five sites would not be built out with the maximum allowable development. Moreover, the cumulative analysis represents a conservative, worst-case scenario for buildout of the sites, and the future emissions would likely be lower than the emissions presented above due to the implementation of the City of Manteca's General Plan policies.

Table 4
Maximum Unmitigated Operational Emissions (tons/yr) – Cumulative

	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Cumulative Approved Project	14.94	8.95	62.25	0.15	12.37	3.81
Cumulative Proposed Project	20.08	12.61	96.54	0.24	19.79	6.05
Net Change	*+5.14*	*+3.66*	*+34.29*	*+0.09*	*+7.42*	*+2.24*
Threshold of Significance	**10**	**10**	**100**	**27**	**15**	**15**
Exceeds Threshold?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Source: CalEEMod, March 2026 (see Attachment 1).						

Based on the information presented above, the proposed project would not result in any new impacts or substantially more severe impacts related to air quality relative to what was analyzed in the City of Manteca General Plan EIR.

Prior Mitigation Measures
None applicable.

Modified Mitigation Measures
None applicable.

New Mitigation Measures
None required.

Greenhouse Gas Emissions

The potential impacts related to GHG emissions from development facilitated by the General Plan were analyzed in the Greenhouse Gases, Climate Change, and Energy section of the General Plan EIR, starting on page 3.7-1. According to the General Plan EIR, the General Plan is consistent with the 2013 Manteca CAP and implementation of measure RC-4a in the General Plan EIR would ensure that the CAP is updated to address State-established GHG reduction targets. As such, impacts were determined to be less than significant.

As discussed above, the maximum allowable development of Site 1, Site 3, and Site 4 would be below the SJVAPCD's SPAL for the proposed land uses. Thus, further individual site analysis of Site 1, Site 3, and Site 4 is not warranted. However, the maximum allowable development of Site 2 would exceed the SPAL for the proposed land uses of Site 2. Thus, further analysis of the site is required, as presented below.

The net change in GHG emissions associated with the maximum allowable development of Site 2 was estimated using CalEEMod version 2022.1.1.39 software for both the approved project and the proposed project. Table 5 presents the maximum unmitigated GHG emissions associated with the approved project for Site 2 in comparison to the maximum unmitigated GHG emissions associated with the proposed project for Site 2.

Table 5
Maximum Unmitigated GHG Emissions (tons/yr) – Site 2

	Construction	Operations
Approved Project	1,098.30	7,377.87
Proposed Project	1,079.54	7,655.91
Net Change	*-18.76*	*+278.04*

Source: CalEEMod, March 2026 (see Attachment 1).

However, the SJVAPCD does not currently have a threshold of significance for GHG emissions. Thus, the net change in GHG emissions is provided for informational purposes only.

As shown in the table, the proposed project for Site 2 would result in a decrease in construction GHG emissions as compared to the construction GHG emissions generated under the approved project for Site 2. However, the proposed project for Site 2 would result in an increase in operational emissions as compared to the operational GHG emissions generated under the approved conditions for Site 2.

Additionally, the cumulative change in GHG emissions resulting from maximum allowable development of Site 1, Site 2, Site 3, and Site 4 of this Addendum, as well as Site 5 analyzed further within the Site 5-specific IS/MND (Yosemite Mixed Use Conversion [Batched GPAs Site 5] Project), was estimated using CalEEMod. Table 6 presents the maximum unmitigated operational emissions associated with the cumulative approved project in comparison to the maximum unmitigated operational emissions associated with the cumulative proposed project for all sites.

Table 6
Maximum Unmitigated GHG Emissions (tons/yr) - Cumulative

	Operations
Cumulative Approved Project	16,374.10
Cumulative Proposed Project	22,933.60
Net Increase	*+6,559.50*

Source: CalEEMod, March 2026 (see Attachment 1).

As shown in Table 6, the proposed project would result in a net increase in GHG emissions as compared to the approved project. However, the SJVAPCD does not currently have a threshold of significance for GHG emissions. Thus, the cumulative net change in GHG emissions is provided for informational purposes only. In addition, the cumulative analysis represents a conservative, worst-case scenario for buildout of the Sites, and the future GHG emissions would

likely be lower than the GHG emissions presented below due to the implementation of the City of Manteca's General Plan policies and the City of Manteca CAP measures.

Additionally, any future development facilitated by the proposed project would be required to adhere to General Plan goals and policies related to GHG emissions, as well as federal and State plans. General Plan Policy RC-4a requires the City of Manteca to update the Climate Action Plan on a five-year basis to ensure consistency with State-adopted GHG reduction targets. The City of Manteca's most recent CAP was adopted in 2025. Future development of the project sites would be required to be consistent with the City of Manteca's current CAP at the time of development, which would ensure GHG emissions resulting future development would be generally consistent with what was previously analyzed in the City of Manteca General Plan EIR. In addition, the 2025 CAP includes more stringent requirements as compared to the 2013 CAP, which was in place at the time the General Plan EIR was drafted. Therefore, the proposed project would not result in any new or substantially more severe significant impacts related to GHG emissions from what was previously analyzed in the City of Manteca General Plan EIR.

Based on the information presented above, the proposed project would not result in any new impacts or substantially more severe impacts related to GHG emissions relative to what was analyzed in the City of Manteca General Plan EIR.

Prior Mitigation Measures
None applicable.

Modified Mitigation Measures
None required.

New Mitigation Measures
None required.

Transportation

The General Plan EIR analyzed potential impacts on the local and regional circulation system resulting from implementation of the General Plan, including an analysis of whether buildout of the General Plan would result in an increase in hazards due to a design feature, incompatible uses, or inadequate emergency access; conflict or be inconsistent with VMT thresholds; or conflict with a program, plan, policy or ordinance addressing the circulation system, including transit, bicycle, and pedestrian facilities. The General Plan EIR found implementation of the General Plan policies and actions related to circulation, hazards, and emergency access would reduce the impacts to emergency circulation and access associated with buildout of the General Plan. However, increases in vehicle traffic associated with buildout of the General Plan could increase the number of collisions and hazards on Manteca roadways. Because the City cannot demonstrate that implementation of General Plan policies and actions would maintain the number of collisions for vehicles, pedestrians, and bicyclists at current or lower levels, the General Plan EIR concluded that the impact would be significant and unavoidable. In addition, the General Plan EIR concluded that VMT generated by buildout of the General Plan would exceed the VMT threshold of 85 percent of baseline. Although General Plan Polices would achieve reductions in VMT, it cannot be determined that they would achieve reductions to meet the VMT thresholds. Thus, the General Plan EIR concluded that the impact would be significant and unavoidable. Furthermore, the General Plan EIR determined that implementation of the General Plan could lead to an increase in population and employment that would increase the demand for pedestrian

and bicycle facilities as well as transit facilities and services. As previously discussed, while compliance with General Plan Policies would ensure the City's circulation system would be consistent with the applicable programs, plans, policies, and ordinances and would address the needs of growth accommodated by the General Plan, the City cannot demonstrate that collisions for vehicles, pedestrians, and bicyclists would occur at current or lower levels. Thus, the General Plan EIR concluded that the impact would be significant and unavoidable.

As discussed above, the proposed project would include Batched GPAs to amend the current General Plan land use designations of Sites 1 through 4. While the proposed project would allow for the future development of Sites 1 through 4, the proposed project does not include any site-specific development plans, designs, or proposals at this time. As such, implementation of the proposed project would not directly result in impacts related to transportation in the project area. However, based on the modeling conducted for the Air Quality and GHG analysis for both the previously approved project and the currently proposed project, the proposed GPAs would provide for future development of Sites 1 through 4 that could cumulatively result in up to 8,078 additional weekday trips within the city-wide transportation network and 56,539 additional weekday VMT than was previously anticipated in the General Plan EIR. The trip generation and VMT estimates included in the CalEEMod results are based on an analysis of the maximum buildout potential of individual land uses and did not account for variation in trip type, pass-by rate, or local serving uses. In addition, the trip generation and VMT estimates did not consider the proposed GPAs in the larger context of the General Plan Planning Area. As such, the modeling results represent a highly conservative estimate of trip generation and VMT within the Planning Area.

In addition, the General Plan includes policies and actions intended to minimize potential impacts related to transportation. Specifically, General Plan Policy C-2.3 requires new development to pay a fair share of the costs of transportation improvements as established in the General Plan Circulation Element and Public Facilities Implementation Program (PFIP). Additionally, General Plan Policy C-2.15 ensures that development projects are designed in a way that provides pedestrian and bicycle connectivity to adjacent areas. Furthermore, General Plan Action C-2d requires new development to participate in the implementation of transportation improvements identified by the City through methods determined in an environmental impact report or transportation impact analysis. Future development of the sites would be required to be consistent with all applicable policies, actions, regulations, and standards related to transportation and circulation, including those set forth in the City's General Plan and Municipal Code. Future development of Sites 1 through 4 would also be subject to further site-specific analysis and review under CEQA.

In addition, pursuant to the Governor's Office of Land Use and Climate Innovation (LCI), certain projects are presumed to have a less-than-significant effect on VMT due to project size, project location, or project type.[2] Specifically, according to LCI, local-serving uses may generally be presumed to have a less-than-significant VMT impact and can generally be screened from further VMT analysis. LCI based the presumption on substantial research demonstrating that adding local-serving uses typically improves destination accessibility to residents, often reducing trip distances because residents need to travel shorter distances than they previously did, as adding new local-serving uses typically shifts trips away from another use rather than adding entirely new trips to the region. The proposed project would provide for future development of new public and

[2] Governor's Office of Land Use and Climate Innovation. *Technical Advisory on Evaluating Transportation Impacts In CEQA*. Available at: https://lci.ca.gov/ceqa/docs/20190122-743_Technical_Advisory.pdf. Accessed January 2026.

commercial uses throughout the City, as well as residential uses located in closer proximity to such local serving uses. As such, future development of Sites 1 through 4 would introduce new local serving uses throughout the Planning Area, which could reduce trips by shifting trips away from similar uses located further away.

Furthermore, while future development of the project sites could result in increased vehicle trips and VMT as compared to what was previously analyzed in the General Plan EIR, such increases would be distributed across the City's entire transportation network and would not be localized on individual roadways. Additionally, given that the City has generally anticipated the development of Sites 1 through 4 with urban uses, increases in vehicle trips associated with the sites have been previously considered in the General Plan EIR. Although future development of Sites 1 through 4 could result in increases in vehicle trips and VMT within the Planning Area, the General Plan EIR determined that impacts related to VMT would be significant and unavoidable. As such, when considered cumulatively in the context of the General Plan Planning Area, the proposed project would not result in new or more significant impacts related to vehicle trips or VMT than was previously anticipated in the General Plan EIR.

With regard to pedestrian, bicycle, and transit facilities, future development of the project sites could result in additional vehicle traffic, as well as increases in the City's population and employment that would increase the demand for pedestrian, bicycle, and transit facilities and services as compared to what was previously analyzed in the General Plan EIR. As such, future development of Sites 1 through 4 could indirectly result in collisions that conflict with policies for safe travel and result in increased hazards within the City's transportation network. However, such increases in demand and collisions would be distributed across the City's entire transportation network and would not be localized on individual roadways. Additionally, given that the City has generally anticipated the development of Sites 1 through 4 with urban uses, increases in demand for pedestrian, bicycle, and transit facilities and services, as well as conflicts with policies for safe travel and increased roadway hazards associated with the Sites have been previously considered in the General Plan EIR. In addition, as discussed above, the General Plan EIR determined that impacts related to potential conflicts with policies for safe travel, including by transit uses, bicyclists, and pedestrians, as well as increased hazards due to a design feature would be significant and unavoidable. As such, when considered cumulatively in the context of the General Plan Planning Area, the proposed project would not result in new or more significant impacts related to conflicts with policies for safe travel or increased roadway hazards or conflicts with a program, plan, policy or ordinance addressing the circulation system, including transit, bicycle, and pedestrian facilities, than was previously anticipated in the General Plan EIR.

Based on the above, the proposed project would not result in any new or substantially more severe impacts related to transportation relative to the analysis included in the General Plan EIR.

Prior Mitigation Measures
None applicable.

Modified Mitigation Measures
None required.

New Mitigation Measures
None required.

Remaining Environmental Resource Areas

While the proposed project would include Batched GPAs to change the existing land use designations of Sites 1 through 4, the proposed land use designations would be compatible with the existing and planned developments in the vicinity of the project sites. The proposed project would not include development of the project sites and the area of disturbance associated with future development of the project sites would remain the same as what was anticipated in the General Plan EIR. As such, the proposed project would not have adverse effects related to aesthetics, hazards and hazardous materials, hydrology and water quality, or wildfire beyond what was previously analyzed in the General Plan EIR. In addition, future development of Sites 1 though 4 would be required to comply with the State Water Resources Control Board (SWRCB) National Pollutant Discharge Elimination System (NPDES) General Construction Permit. The NPDES General Construction Permit requires preparation of site specific Stormwater Pollution Prevention Plans (SWPPPs) that specify site management activities to be implemented during development activities. Additionally, because Sites 1 through 4 have been previously anticipated for development, ground-disturbing activity associated with the proposed project would be substantially similar to what was previously considered for the sites. Therefore, impacts related to agricultural resources, geology and soils, and mineral resources would be the same as what was previously analyzed. The development footprints of Sites 1 through 4 would not be altered by the proposed project, and the proposed project would remain subject to all applicable policies and actions included in the General Plan and General Plan EIR.

As analyzed in the General Plan EIR, through compliance with the policies and actions included in the General Plan, as well as the Manteca Municipal Code, and other applicable State and local regulations, buildout of the General Plan would result in a less-than-significant impact on cultural, historic, and archeological resources. The General Plan policies and actions include but are not limited to requiring records searches for any proposed development project, to determine whether the site contains known archaeological, historic, cultural, or paleontological resources, implementation of archaeological surveys in archeologically sensitive areas prior to ground disturbance, and conditions for the inadvertent discovery of cultural resources or human remains. Although the proposed project would include changes to the existing land use designations for the project sites, because the sites were previously anticipated for development, impacts related to cultural and tribal cultural resources were previously analyzed in the General Plan EIR. Future development of Sites 1 through 4 would result in similar site disturbance as anticipated in the General Plan EIR, and would include similar uses as was analyzed therein. Therefore, the proposed project would have similar impacts related to cultural and tribal cultural resources.

In addition, a number of environmental impact areas are a function of population, including utilities and service systems, public services, recreation, and energy. For example, if fewer individuals occupy a project site, the project is expected to exert less demand on utilities such as water, sewer, and energy. As discussed throughout this Addendum, the proposed project would include Batched GPAs to change the existing land use designations of Sites 1 through 4, and does not propose any site-specific development plans. When considered cumulatively, the proposed GPAs would provide for future development of Sites 1 through 4 with 33 fewer residential units as compared to what was previously analyzed in the General Plan EIR. As such, future development of Sites 1 through 4 as provided under the proposed GPAs is not anticipated to result in significant increases in demand for public services, utilities, recreation, or energy. Thus, impacts to the aforementioned areas would be within the scope of what was previously analyzed in the General Plan EIR. Furthermore, changes in demand for public services, utilities, recreation, and energy

associated with future development of Sites 1 through 4 would be reviewed at the time of application for future site-specific development.

Additionally, the General Plan EIR concluded that impacts associated land use, population, and housing would be less-than-significant. As discussed above, Sites 1 and 2 are currently undeveloped, and Sites 3 and 4 are developed with an existing unoccupied office building and NAPA Auto Parts warehouse and auto body shop, respectively. As such, future development of Sites 1 through 4 as provided under the proposed GPAs would not displace any existing residents or housing. When considered cumulatively, the proposed GPAs would provide for future development of Sites 1 through 4 with 33 fewer residential units as compared to what was previously analyzed in the General Plan EIR. According to the U.S. Census Bureau, the average household size in Manteca was estimated at 3.19 persons per household.[3] Using this average household size, future development of the project sites would result in an estimated decrease in population of 105 residents relative to what was previously analyzed in the General Plan EIR. As such, the proposed project would not result in significant or unplanned population growth in the context of the City, or as compared to the conditions analyzed in the General Plan EIR. However, it should be noted that the proposed project, in conjunction with the GPA proposed for Site 5 in the Yosemite Mixed Use Conversion (Batched GPAs Site 5) Project IS/MND, would result in a net increase of 354 residential units within the City. Such an increase in residential units on Site 5 would balance the loss of residential units within Sites 1 through 4 that would occur as part of the GPAs. Although the proposed project would include changes to the existing land use designations for the project sites, which would result in a net reduction of one acre LDR, one acre HDR, and 0.41 acres C land uses, and a net increase of 0.27 acres MDR and 2.14 acres PQP land uses, the proposed land use designations would be compatible with the existing and planned developments in the vicinity of the project sites, and the proposed project would not result in the development of parcels within the City that have not been previously anticipated for urban development. As such, impacts related to land use and planning are anticipated to remain the same as analyzed in the General Plan EIR. Should the City Council approve the proposed GPAs and rezones, the proposed project would be consistent with the land use designations in the City's General Plan. In addition, the General Plan EIR determined that future development within the Planning Area would be required to be consistent with all applicable policies, standards, and regulations, including land use plans, policies, and regulations adopted by the City to mitigate environmental effects. While the proposed project does not include any site-specific development plans, future development of Sites 1 through 4 would be required to comply with the policies and actions included in the General Plan, as well as any applicable State, and local regulations. In addition, Sites 1 through 4 were previously anticipated for urban development and the proposed project would not result in the development of any parcels within the City that were not previously anticipated for urban use. Therefore, the proposed project would have similar impacts associated with land use, population, and housing.

Impacts to biological resources are anticipated to remain the same because future development of Sites 1 through 4 would result in disturbance within identical site boundaries as analyzed in the General Plan EIR. The General Plan EIR identified potentially significant impacts associated with potential impacts to special-status plant and wildlife species. However, the General Plan EIR determined that through compliance with the policies and actions included in the General Plan, as well as adopted federal, State, and local regulations that protect special status plants and animals, including habitat, a less-than-significant impact would occur. In addition, the General Plan EIR concluded that through compliance with the aforementioned policies, actions, and

[3] U.S. Census Bureau. *QuickFacts: Manteca city, California.* Available at: https://www.census.gov/quickfacts/fact/table/mantecacitycalifornia/PST045224. Accessed December 2025.

regulations, other impacts to biological resources, including sensitive natural communities, protected wetlands, migratory wildlife corridors, and conflicts with local policies or ordinances, including an adopted habitat conservation plan, would less-than-significant. While the proposed project does not include any site-specific development plans, future development of Sites 1 through 4 would be required to comply with the policies and actions included in the General Plan, as well as any applicable Federal, State, and local regulations. Specifically, the Resource Conservation Element of the General Plan provides Policies RC-8.7 through RC-8.10 to protect and maintain special status species and their habitat by requiring new development to comply with the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP), or for those who opt out of participating in the SJMSCP, compliance with all other applicable local, state, and federal laws and regulation provisions through consultations with the Permitting Agencies and local planning agencies. Although the proposed project would include changes to the existing land use designations for the project sites, because the sites were previously anticipated for development, impacts related to biological resources were previously analyzed in the General Plan EIR. Future development of Sites 1 through 4 would result in similar site disturbance as anticipated in the General Plan EIR, and would include similar uses as was analyzed therein. In addition, Sites 1 through 4 have all been subject to some level of previous disturbance, and do not contain significant habitat for special-status species. Therefore, the proposed project would have similar impacts related to biological resources.

With the exception of increases in traffic noise levels, the General EIR determined that through compliance with the policies and actions included in the General Plan, as well as the Manteca Municipal Code and other adopted local regulations, build out of the General Plan would result in less than significant impacts related to Noise. Nonetheless, the General Plan EIR concluded that General Plan buildout would result in a significant and unavoidable impact related to traffic noise level increases. While the proposed project does not include any site-specific development plans, future development of Sites 1 through 4 would be required to comply with the policies and actions included in the General Plan, as well as the Municipal Code and other local regulations. Although the proposed project would include changes to the existing land use designations for the project sites, because the sites were previously anticipated for development, impacts related to construction noise sources and groundborne vibration were previously analyzed in the General Plan EIR. In addition, compliance with the General Plan policies and actions would ensure that operational activities associated with future development of Sites 1 through 4 would not result in noise level increases in excess of any applicable noise standards. As previously discussed, although the proposed project could result in an overall increase in vehicle trips within the Planning Area relative to the conditions analyzed in the General Plan EIR, the increase in trips would occur throughout the City and would not be localized to any given area. Furthermore, the General Plan EIR determined that implementation of the policies and actions included in the General Plan would minimize noise and land use compatibility impacts related to traffic noise sources and ensure that new development be designed to include noise attenuating features. As such, compliance with the General Plan policies and actions would ensure that future development of Sites 1 through 4 as provided by the proposed project would not result in a substantial change in traffic noise levels compared to what was previously anticipated for the sites. Thus, project-related noise impacts would not be more severe than what was previously analyzed in the General Plan EIR.

Overall, the proposed project would not result in any additional significant impacts or substantially more severe significant as compared to the General Plan EIR.

Prior Mitigation Measures
None required.

Modified Mitigation Measures
None required.

New Mitigation Measures
None required.

Conclusion

As established in the discussions above regarding the potential effects of the proposed project, the proposed project would not result in any new significant information of substantial importance, new significant impacts, a substantial increase in the severity of previously identified significant impacts, or new mitigation measures, from what was analyzed in the General Plan EIR, as amended. As such, the proposed project would not result in any conditions identified in CEQA Guidelines Section 15162, and a subsequent EIR is not required.

Based on the above analysis, this Addendum to the previously certified General Plan EIR has been prepared.

ATTACHMENT 1

CALEEMOD MODELING RESULTS

ATTACHMENT 5

School District Site Swap GPA - Approved Custom Report

Table of Contents

ATTACHMENT 5

ATTACHMENT 5

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	School District Site Swap GPA - Approved
Construction Start Date	6/1/2026
Operational Year	2028
Lead Agency	City of Manteca
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40000
Precipitation (days)	9.00000
Location	37.77684075970552, -121.27274357285663
County	San Joaquin
City	Manteca
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2162
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.39

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
High School	369.824	1000sqft	16.9800	369,824	369,824	369,824	—	—

Apartments Mid Rise	336.000	Dwelling Unit	11.2200	322,560	211,821	—	1,085.00	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.9248	11.4857	29.2076	36.4460	0.06093	1.24251	19.8040	21.0465	1.14311	10.1369	11.2800	—	9,407.19	9,407.19	0.27119	0.58137	19.1181	9,605.25
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.9571	11.4897	15.6833	33.4085	0.04449	0.44054	4.74144	5.18198	0.40840	1.14225	1.55064	—	9,118.98	9,118.98	0.25925	0.59188	0.55560	9,302.40
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.33686	8.10500	10.4841	23.1571	0.03178	0.30017	3.36765	3.64933	0.27660	1.17372	1.45033	—	6,497.68	6,497.68	0.17016	0.42277	5.89013	6,633.81
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.52148	1.47916	1.91334	4.22618	0.00580	0.05478	0.61460	0.66600	0.05048	0.21420	0.26468	—	1,075.77	1,075.77	0.02817	0.06999	0.97518	1,098.30

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

ATTACHMENT 5

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.81580	3.21246	29.2076	29.6512	0.06093	1.24251	19.8040	21.0465	1.14311	10.1369	11.2800	—	6,779.71	6,779.71	0.27119	0.06010	0.62149	6,805.02
2027	11.9248	11.4857	14.3795	36.4460	0.04449	0.39436	4.74144	5.13580	0.36591	1.14225	1.50815	—	9,407.19	9,407.19	0.22772	0.58137	19.1181	9,605.25
2028	11.6410	11.3572	13.7577	34.9209	0.04449	0.35433	4.74144	5.09577	0.32908	1.14225	1.47133	—	9,261.55	9,261.55	0.22773	0.55988	16.9587	9,451.04
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	11.9571	11.4897	15.6833	33.4085	0.04449	0.44054	4.74144	5.18198	0.40840	1.14225	1.55064	—	9,118.98	9,118.98	0.25925	0.59188	0.55560	9,302.40
2027	11.6695	11.3470	14.9027	31.9496	0.04449	0.39436	4.74144	5.13580	0.36591	1.14225	1.50815	—	9,002.30	9,002.30	0.25925	0.59188	0.49469	9,185.66
2028	11.5128	11.0914	14.1366	30.7960	0.04449	0.35433	4.74144	5.09577	0.32908	1.14225	1.47133	—	8,865.44	8,865.44	0.24875	0.57251	0.43957	9,042.71
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.24304	2.05898	7.85956	10.9015	0.01792	0.30017	2.91698	3.21715	0.27660	1.17372	1.45033	—	2,602.05	2,602.05	0.08706	0.09675	1.37550	2,634.43
2027	8.33686	8.10500	10.4841	23.1571	0.03178	0.28168	3.36765	3.64933	0.26136	0.81112	1.07248	—	6,497.68	6,497.68	0.17016	0.42277	5.89013	6,633.81
2028	4.18897	4.04399	4.83390	10.7482	0.01528	0.12177	1.63281	1.75457	0.11309	0.39315	0.50624	—	3,089.02	3,089.02	0.08212	0.19248	2.52946	3,150.96
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.40936	0.37576	1.43437	1.98952	0.00327	0.05478	0.53235	0.58713	0.05048	0.21420	0.26468	—	430.799	430.799	0.01441	0.01602	0.22773	436.161
2027	1.52148	1.47916	1.91334	4.22618	0.00580	0.05141	0.61460	0.66600	0.04770	0.14803	0.19573	—	1,075.77	1,075.77	0.02817	0.06999	0.97518	1,098.30
2028	0.76449	0.73803	0.88219	1.96154	0.00279	0.02222	0.29799	0.32021	0.02064	0.07175	0.09239	—	511.422	511.422	0.01360	0.03187	0.41878	521.677

2.2.2. Onsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.74146	3.14387	29.1635	28.8082	0.06093	1.24251	19.6570	20.8995	1.14311	10.1024	11.2456	—	6,598.58	6,598.58	0.26767	0.05353	0.00000	6,621.22
2027	9.85324	9.62856	10.2221	14.0633	0.02512	0.35562	0.00000	0.35562	0.32717	0.00000	0.32717	—	2,530.59	2,530.59	0.10265	0.02053	0.00000	2,539.27

2028	9.79999	9.58408	9.73309	14.0536	0.02513	0.31559	0.00000	0.31559	0.29035	0.00000	0.29035	—	2,530.97	2,530.97	0.10267	0.02053	0.00000	2,539.66
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	9.91084	9.67665	10.7105	14.0992	0.02512	0.40181	0.00000	0.40181	0.36966	0.00000	0.36966	—	2,530.74	2,530.74	0.10266	0.02053	0.00000	2,539.43
2027	9.85324	9.62856	10.2221	14.0633	0.02512	0.35562	0.00000	0.35562	0.32717	0.00000	0.32717	—	2,530.59	2,530.59	0.10265	0.02053	0.00000	2,539.27
2028	9.79999	9.58408	9.73309	14.0536	0.02513	0.31559	0.00000	0.31559	0.29035	0.00000	0.29035	—	2,530.97	2,530.97	0.10267	0.02053	0.00000	2,539.66
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.93723	1.78606	7.16467	7.94134	0.01512	0.29456	2.21179	2.50634	0.27099	1.00402	1.27502	—	1,611.50	1,611.50	0.06537	0.01307	0.00000	1,617.03
2027	7.03803	6.87754	7.30150	10.0452	0.01794	0.25402	0.00000	0.25402	0.23370	0.00000	0.23370	—	1,807.56	1,807.56	0.07332	0.01466	0.00000	1,813.77
2028	3.59219	3.51763	3.35539	4.84351	0.00865	0.10850	0.00000	0.10850	0.09982	0.00000	0.09982	—	870.430	870.430	0.03531	0.00706	0.00000	873.417
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.35354	0.32596	1.30755	1.44929	0.00276	0.05376	0.40365	0.45741	0.04946	0.18323	0.23269	—	266.803	266.803	0.01082	0.00216	0.00000	267.718
2027	1.28444	1.25515	1.33252	1.83326	0.00327	0.04636	0.00000	0.04636	0.04265	0.00000	0.04265	—	299.263	299.263	0.01214	0.00243	0.00000	300.290
2028	0.65558	0.64197	0.61236	0.88394	0.00158	0.01980	0.00000	0.01980	0.01822	0.00000	0.01822	—	144.110	144.110	0.00585	0.00117	0.00000	144.604

2.2.3. Offsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08495	0.07839	0.05037	0.96340	0.00000	0.00000	0.16801	0.16801	0.00000	0.03938	0.03938	—	181.132	181.132	0.00353	0.00657	0.62149	183.799
2027	2.07156	1.85719	4.15739	22.3827	0.01937	0.03873	4.74144	4.78017	0.03873	1.14225	1.18098	—	6,876.60	6,876.60	0.12507	0.56084	19.1181	7,065.98
2028	1.84103	1.77312	4.02464	20.8673	0.01937	0.03873	4.74144	4.78017	0.03873	1.14225	1.18098	—	6,730.57	6,730.57	0.12507	0.53934	16.9587	6,911.38
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.04629	1.81302	4.97280	19.3093	0.01937	0.03873	4.74144	4.78017	0.03873	1.14225	1.18098	—	6,588.24	6,588.24	0.15660	0.57135	0.55560	6,762.97
2027	1.81624	1.71844	4.68062	17.8862	0.01937	0.03873	4.74144	4.78017	0.03873	1.14225	1.18098	—	6,471.71	6,471.71	0.15660	0.57135	0.49469	6,646.38

2028	1.71279	1.50728	4.40355	16.7424	0.01937	0.03873	4.74144	4.78017	0.03873	1.14225	1.18098	—	6,334.47	6,334.47	0.14609	0.55198	0.43957	6,503.05
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.30582	0.27293	0.69489	2.96012	0.00280	0.00561	0.70519	0.71080	0.00561	0.16970	0.17531	—	990.548	990.548	0.02169	0.08368	1.37550	1,017.40
2027	1.29883	1.22746	3.18258	13.1119	0.01383	0.02767	3.36765	3.39532	0.02767	0.81112	0.83878	—	4,690.12	4,690.12	0.09684	0.40811	5.89013	4,820.05
2028	0.59678	0.52636	1.47851	5.90466	0.00663	0.01326	1.63281	1.64607	0.01326	0.39315	0.40642	—	2,218.59	2,218.59	0.04681	0.18542	2.52946	2,277.54
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.05581	0.04981	0.12682	0.54022	0.00051	0.00102	0.12870	0.12972	0.00102	0.03097	0.03199	—	163.996	163.996	0.00359	0.01385	0.22773	168.443
2027	0.23704	0.22401	0.58082	2.39292	0.00252	0.00505	0.61460	0.61965	0.00505	0.14803	0.15308	—	776.503	776.503	0.01603	0.06757	0.97518	798.013
2028	0.10891	0.09606	0.26983	1.07760	0.00121	0.00242	0.29799	0.30041	0.00242	0.07175	0.07417	—	367.312	367.312	0.00775	0.03070	0.41878	377.073

2.3. 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.	64.2371	53.2728	28.3545	289.200	0.70816	11.8277	35.2813	47.1090	11.3970	8.97237	20.3693	2,268.71	53,738.7	56,007.4	55.5868	2.10512	122.365	58,146.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	57.7592	47.0024	30.8688	236.842	0.67699	11.7905	35.2813	47.0718	11.3689	8.97237	20.3413	2,268.71	50,649.4	52,918.1	55.8479	2.26355	6.81463	54,995.7
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	42.3798	38.5673	23.1483	165.496	0.41288	3.18606	29.0641	32.2502	3.07506	7.39200	10.4671	852.925	41,899.1	42,752.0	48.7211	1.83409	46.1778	44,562.7
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.73431	7.03854	4.22457	30.2030	0.07535	0.58146	5.30420	5.88566	0.56120	1.34904	1.91024	141.211	6,936.87	7,078.08	8.06633	0.30365	7.64526	7,377.87

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2.4. 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	25.9579	24.3112	18.5526	172.895	0.40794	0.31917	35.2813	35.6005	0.29965	8.97237	9.27202	—	41,620.2	41,620.2	1.71898	1.92747	118.626	42,356.2
Area	37.6702	28.6571	4.33981	112.203	0.26700	11.0877	—	11.0877	10.6765	—	10.6765	1,826.01	3,654.50	5,480.51	8.60775	0.00765	—	5,697.98
Energy	0.60905	0.30453	5.46217	4.10326	0.03322	0.42080	—	0.42080	0.42080	—	0.42080	—	8,401.98	8,401.98	0.87515	0.04765	—	8,438.05
Water	—	—	—	—	—	—	—	—	—	—	—	49.7192	62.0288	111.748	5.10817	0.12235	—	275.911
Waste	—	—	—	—	—	—	—	—	—	—	—	392.979	0.00000	392.979	39.2768	0.00000	—	1,374.90
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73875	3.73875
Total	64.2371	53.2728	28.3545	289.200	0.70816	11.8277	35.2813	47.1090	11.3970	8.97237	20.3693	2,268.71	53,738.7	56,007.4	55.5868	2.10512	122.365	58,146.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.0972	22.3442	21.3826	155.717	0.37855	0.31944	35.2813	35.6008	0.29991	8.97237	9.27228	—	38,648.0	38,648.0	1.98494	2.08689	3.07588	39,322.6
Area	33.0529	24.3536	4.02396	77.0223	0.26522	11.0503	—	11.0503	10.6482	—	10.6482	1,826.01	3,537.39	5,363.40	8.60284	0.00666	—	5,580.46
Energy	0.60905	0.30453	5.46217	4.10326	0.03322	0.42080	—	0.42080	0.42080	—	0.42080	—	8,401.98	8,401.98	0.87515	0.04765	—	8,438.05
Water	—	—	—	—	—	—	—	—	—	—	—	49.7192	62.0288	111.748	5.10817	0.12235	—	275.911
Waste	—	—	—	—	—	—	—	—	—	—	—	392.979	0.00000	392.979	39.2768	0.00000	—	1,374.90
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73875	3.73875
Total	57.7592	47.0024	30.8688	236.842	0.67699	11.7905	35.2813	47.0718	11.3689	8.97237	20.3413	2,268.71	50,649.4	52,918.1	55.8479	2.26355	6.81463	54,995.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.7868	18.3880	16.6264	126.740	0.31919	0.26425	29.0641	29.3284	0.24810	7.39200	7.64009	—	32,582.6	32,582.6	1.52588	1.66211	42.4390	33,158.5
Area	21.9840	19.8748	1.05977	34.6528	0.06046	2.50101	—	2.50101	2.40616	—	2.40616	410.227	852.453	1,262.68	1.93511	0.00198	—	1,311.65
Energy	0.60905	0.30453	5.46217	4.10326	0.03322	0.42080	—	0.42080	0.42080	—	0.42080	—	8,401.98	8,401.98	0.87515	0.04765	—	8,438.05
Water	—	—	—	—	—	—	—	—	—	—	—	49.7192	62.0288	111.748	5.10817	0.12235	—	275.911
Waste	—	—	—	—	—	—	—	—	—	—	—	392.979	0.00000	392.979	39.2768	0.00000	—	1,374.90

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73875	3.73875
Total	42.3798	38.5673	23.1483	165.496	0.41288	3.18606	29.0641	32.2502	3.07506	7.39200	10.4671	852.925	41,899.1	42,752.0	48.7211	1.83409	46.1778	44,562.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.61109	3.35581	3.03432	23.1300	0.05825	0.04823	5.30420	5.35242	0.04528	1.34904	1.39432	—	5,394.42	5,394.42	0.25263	0.27518	7.02626	5,489.77
Area	4.01207	3.62715	0.19341	6.32414	0.01103	0.45644	—	0.45644	0.43912	—	0.43912	67.9178	141.133	209.051	0.32038	0.00033	—	217.159
Energy	0.11115	0.05558	0.99685	0.74884	0.00606	0.07680	—	0.07680	0.07680	—	0.07680	—	1,391.04	1,391.04	0.14489	0.00789	—	1,397.02
Water	—	—	—	—	—	—	—	—	—	—	—	8.23158	10.2696	18.5012	0.84572	0.02026	—	45.6803
Waste	—	—	—	—	—	—	—	—	—	—	—	65.0621	0.00000	65.0621	6.50272	0.00000	—	227.630
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61899	0.61899
Total	7.73431	7.03854	4.22457	30.2030	0.07535	0.58146	5.30420	5.88566	0.56120	1.34904	1.91024	141.211	6,936.87	7,078.08	8.06633	0.30365	7.64526	7,377.87

3. Construction Emissions Details

3.1. Site Preparation (2026)

3.1.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.74146	3.14387	29.1635	28.8082	0.04890	1.24251	—	1.24251	1.14311	—	1.14311	—	5,297.94	5,297.94	0.21491	0.04298	—	5,316.12
Dust From Material Movement	—	—	—	—	—	—	19.6570	19.6570	—	10.1024	10.1024	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20501	0.17227	1.59800	1.57853	0.00268	0.06808	—	0.06808	0.06264	—	0.06264	—	290.298	290.298	0.01178	0.00236	—	291.294
Dust From Material Movement	—	—	—	—	—	—	1.07710	1.07710	—	0.55356	0.55356	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03741	0.03144	0.29164	0.28808	0.00049	0.01243	—	0.01243	0.01143	—	0.01143	—	48.0622	48.0622	0.00195	0.00039	—	48.2271
Dust From Material Movement	—	—	—	—	—	—	0.19657	0.19657	—	0.10102	0.10102	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07433	0.06859	0.04407	0.84297	0.00000	0.00000	0.14701	0.14701	0.00000	0.03446	0.03446	—	158.491	158.491	0.00309	0.00574	0.54381	160.824
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00382	0.00348	0.00273	0.03743	0.00000	0.00000	0.00801	0.00801	0.00000	0.00188	0.00188	—	8.04589	8.04589	0.00019	0.00034	0.01287	8.16362
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00070	0.00064	0.00050	0.00683	0.00000	0.00000	0.00146	0.00146	0.00000	0.00034	0.00034	—	1.33209	1.33209	0.00003	0.00006	0.00213	1.35158
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2. Grading (2026)

3.2.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.62261	3.04400	27.2253	27.5707	0.06093	1.12137	—	1.12137	1.03166	—	1.03166	—	6,598.58	6,598.58	0.26767	0.05353	—	6,621.22
Dust From Material Movement	—	—	—	—	—	—	9.20359	9.20359	—	3.65375	3.65375	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44662	0.37529	3.35654	3.39912	0.00751	0.13825	—	0.13825	0.12719	—	0.12719	—	813.523	813.523	0.03300	0.00660	—	816.315
Dust From Material Movement	—	—	—	—	—	—	1.13469	1.13469	—	0.45046	0.45046	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08151	0.06849	0.61257	0.62034	0.00137	0.02523	—	0.02523	0.02321	—	0.02321	—	134.688	134.688	0.00546	0.00109	—	135.150
Dust From Material Movement	—	—	—	—	—	—	0.20708	0.20708	—	0.08221	0.08221	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08495	0.07839	0.05037	0.96340	0.00000	0.00000	0.16801	0.16801	0.00000	0.03938	0.03938	—	181.132	181.132	0.00353	0.00657	0.62149	183.799
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00982	0.00896	0.00702	0.09625	0.00000	0.00000	0.02059	0.02059	0.00000	0.00483	0.00483	—	20.6894	20.6894	0.00049	0.00086	0.03309	20.9922
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00179	0.00163	0.00128	0.01757	0.00000	0.00000	0.00376	0.00376	0.00000	0.00088	0.00088	—	3.42537	3.42537	0.00008	0.00014	0.00548	3.47549
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Building Construction (2026)

3.3.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27993	1.07101	9.85401	12.9664	0.02340	0.37865	—	0.37865	0.34836	—	0.34836	—	2,397.24	2,397.24	0.09724	0.01945	—	2,405.47
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.18535	0.15510	1.42700	1.87771	0.00339	0.05483	—	0.05483	0.05045	—	0.05045	—	347.154	347.154	0.01408	0.00282	—	348.346
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03383	0.02831	0.26043	0.34268	0.00062	0.01001	—	0.01001	0.00921	—	0.00921	—	57.4753	57.4753	0.00233	0.00047	—	57.6726
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.59103	1.44311	1.26121	15.1490	0.00000	0.00000	3.33716	3.33716	0.00000	0.78222	0.78222	—	3,251.86	3,251.86	0.08758	0.13916	0.32015	3,295.84
Vendor	0.13705	0.08130	3.45935	1.13049	0.01937	0.03873	0.73685	0.77559	0.03873	0.20358	0.24231	—	2,686.01	2,686.01	0.05150	0.40435	0.17143	2,807.96
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22913	0.20898	0.16376	2.24552	0.00000	0.00000	0.48047	0.48047	0.00000	0.11258	0.11258	—	482.691	482.691	0.01141	0.02015	0.77198	489.754
Vendor	0.02016	0.01239	0.49073	0.16063	0.00280	0.00561	0.10619	0.11180	0.00561	0.02935	0.03496	—	388.778	388.778	0.00746	0.05856	0.41308	406.827
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04182	0.03814	0.02989	0.40981	0.00000	0.00000	0.08769	0.08769	0.00000	0.02055	0.02055	—	79.9150	79.9150	0.00189	0.00334	0.12781	81.0843
Vendor	0.00368	0.00226	0.08956	0.02931	0.00051	0.00102	0.01938	0.02040	0.00102	0.00536	0.00638	—	64.3667	64.3667	0.00123	0.00969	0.06839	67.3549

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction (2027)

3.4.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23076	1.02988	9.39093	12.9379	0.02340	0.33657	—	0.33657	0.30965	—	0.30965	—	2,397.08	2,397.08	0.09724	0.01945	—	2,405.30
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23076	1.02988	9.39093	12.9379	0.02340	0.33657	—	0.33657	0.30965	—	0.30965	—	2,397.08	2,397.08	0.09724	0.01945	—	2,405.30
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87911	0.73563	6.70781	9.24139	0.01671	0.24041	—	0.24041	0.22118	—	0.22118	—	1,712.20	1,712.20	0.06945	0.01389	—	1,718.07
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.16044	0.13425	1.22418	1.68655	0.00305	0.04387	—	0.04387	0.04036	—	0.04036	—	283.474	283.474	0.01150	0.00230	—	284.447
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.60854	1.47814	0.87876	17.7797	0.00000	0.00000	3.33716	3.33716	0.00000	0.78222	0.78222	—	3,540.85	3,540.85	0.06130	0.13040	11.1084	3,592.35
Vendor	0.14131	0.08342	3.10288	1.04706	0.01937	0.03873	0.73685	0.77559	0.03873	0.20358	0.24231	—	2,627.59	2,627.59	0.05150	0.40435	5.78804	2,755.16
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.39932	1.36429	1.13956	14.0007	0.00000	0.00000	3.33716	3.33716	0.00000	0.78222	0.78222	—	3,201.45	3,201.45	0.08758	0.13916	0.28739	3,245.40
Vendor	0.13705	0.08130	3.31315	1.08537	0.01937	0.03873	0.73685	0.77559	0.03873	0.20358	0.24231	—	2,629.97	2,629.97	0.05150	0.40435	0.14982	2,751.91
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.99951	0.97449	0.72083	10.2932	0.00000	0.00000	2.36991	2.36991	0.00000	0.55529	0.55529	—	2,343.80	2,343.80	0.05004	0.09940	3.42483	2,378.09
Vendor	0.09942	0.05807	2.31759	0.76006	0.01383	0.02767	0.52376	0.55143	0.02767	0.14477	0.17244	—	1,877.56	1,877.56	0.03679	0.28882	1.78033	1,966.33
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18241	0.17784	0.13155	1.87851	0.00000	0.00000	0.43251	0.43251	0.00000	0.10134	0.10134	—	388.042	388.042	0.00829	0.01646	0.56702	393.720
Vendor	0.01814	0.01060	0.42296	0.13871	0.00252	0.00505	0.09559	0.10064	0.00505	0.02642	0.03147	—	310.852	310.852	0.00609	0.04782	0.29475	325.549
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTACHMENT 5

3.5. Building Construction (2028)

3.5.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18481	0.99143	8.92495	12.9352	0.02340	0.30024	—	0.30024	0.27622	—	0.27622	—	2,397.46	2,397.46	0.09725	0.01945	—	2,405.68
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18481	0.99143	8.92495	12.9352	0.02340	0.30024	—	0.30024	0.27622	—	0.27622	—	2,397.46	2,397.46	0.09725	0.01945	—	2,405.68
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40576	0.33953	3.05649	4.42988	0.00801	0.10282	—	0.10282	0.09460	—	0.09460	—	821.047	821.047	0.03331	0.00666	—	823.865
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07405	0.06196	0.55781	0.80845	0.00146	0.01876	—	0.01876	0.01726	—	0.01726	—	135.934	135.934	0.00551	0.00110	—	136.400

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.43435	1.40808	0.86124	16.5545	0.00000	0.00000	3.33716	3.33716	0.00000	0.78222	0.78222	—	3,472.11	3,472.11	0.06130	0.13040	9.93202	3,522.43
Vendor	0.11982	0.08342	2.99115	1.00195	0.01937	0.03873	0.73685	0.77559	0.03873	0.20358	0.24231	—	2,564.04	2,564.04	0.05150	0.38286	5.04031	2,684.46
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.32926	1.19009	1.01792	13.0869	0.00000	0.00000	3.33716	3.33716	0.00000	0.78222	0.78222	—	3,140.01	3,140.01	0.07882	0.13916	0.25761	3,183.70
Vendor	0.11769	0.07917	3.18205	1.03813	0.01937	0.03873	0.73685	0.77559	0.03873	0.20358	0.24231	—	2,566.46	2,566.46	0.05150	0.38499	0.13044	2,682.61
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45822	0.41057	0.33960	4.56883	0.00000	0.00000	1.13626	1.13626	0.00000	0.26623	0.26623	—	1,102.09	1,102.09	0.02399	0.04466	1.46866	1,117.47
Vendor	0.03958	0.02711	1.06555	0.34896	0.00663	0.01326	0.25112	0.26438	0.01326	0.06941	0.08268	—	878.445	878.445	0.01764	0.13112	0.74356	918.702
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08363	0.07493	0.06198	0.83381	0.00000	0.00000	0.20737	0.20737	0.00000	0.04859	0.04859	—	182.463	182.463	0.00397	0.00739	0.24315	185.009
Vendor	0.00722	0.00495	0.19446	0.06369	0.00121	0.00242	0.04583	0.04825	0.00242	0.01267	0.01509	—	145.437	145.437	0.00292	0.02171	0.12311	152.102
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Paving (2026)

ATTACHMENT 5

3.6.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90546	0.76084	7.11822	9.93804	0.01395	0.31987	—	0.31987	0.29428	—	0.29428	—	1,510.59	1,510.59	0.06128	0.01226	—	1,515.78
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90546	0.76084	7.11822	9.93804	0.01395	0.31987	—	0.31987	0.29428	—	0.29428	—	1,510.59	1,510.59	0.06128	0.01226	—	1,515.78
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08682	0.07296	0.68257	0.95296	0.00134	0.03067	—	0.03067	0.02822	—	0.02822	—	144.851	144.851	0.00588	0.00118	—	145.348
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ATTACHMENT 5

Off-Road Equipm	0.01585	0.01331	0.12457	0.17392	0.00024	0.00560	—	0.00560	0.00515	—	0.00515	—	23.9818	23.9818	0.00097	0.00019	—	24.0641
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06371	0.05879	0.03778	0.72255	0.00000	0.00000	0.12601	0.12601	0.00000	0.02954	0.02954	—	135.849	135.849	0.00265	0.00492	0.46612	137.849
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06008	0.05449	0.04762	0.57203	0.00000	0.00000	0.12601	0.12601	0.00000	0.02954	0.02954	—	122.790	122.790	0.00331	0.00525	0.01209	124.451
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00573	0.00523	0.00409	0.05615	0.00000	0.00000	0.01201	0.01201	0.00000	0.00281	0.00281	—	12.0688	12.0688	0.00029	0.00050	0.01930	12.2454
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00105	0.00095	0.00075	0.01025	0.00000	0.00000	0.00219	0.00219	0.00000	0.00051	0.00051	—	1.99813	1.99813	0.00005	0.00008	0.00320	2.02737
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTACHMENT 5

3.7. Architectural Coating (2026)

3.7.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14557	0.12031	0.85645	1.13283	0.00173	0.02315	—	0.02315	0.02130	—	0.02130	—	133.504	133.504	0.00542	0.00108	—	133.963
Architectural Coatings	8.48533	8.48533	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01709	0.01413	0.10056	0.13301	0.00020	0.00272	—	0.00272	0.00250	—	0.00250	—	15.6757	15.6757	0.00064	0.00013	—	15.7295
Architectural Coatings	0.99632	0.99632	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ATTACHMENT 5

Off-Road Equipm	0.00312	0.00258	0.01835	0.02427	0.00004	0.00050	—	0.00050	0.00046	—	0.00046	—	2.59529	2.59529	0.00011	0.00002	—	2.60419
Architectural Coatings	0.18183	0.18183	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31821	0.28862	0.25224	3.02981	0.00000	0.00000	0.66743	0.66743	0.00000	0.15644	0.15644	—	650.371	650.371	0.01752	0.02783	0.06403	659.167
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03716	0.03389	0.02656	0.36414	0.00000	0.00000	0.07791	0.07791	0.00000	0.01826	0.01826	—	78.2742	78.2742	0.00185	0.00327	0.12519	79.4195
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00678	0.00618	0.00485	0.06646	0.00000	0.00000	0.01422	0.01422	0.00000	0.00333	0.00333	—	12.9592	12.9592	0.00031	0.00054	0.02073	13.1488
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTACHMENT 5

3.8. Architectural Coating (2027)

3.8.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13715	0.11335	0.83116	1.12539	0.00173	0.01905	—	0.01905	0.01752	—	0.01752	—	133.513	133.513	0.00542	0.00108	—	133.971
Architectural Coatings	8.48533	8.48533	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13715	0.11335	0.83116	1.12539	0.00173	0.01905	—	0.01905	0.01752	—	0.01752	—	133.513	133.513	0.00542	0.00108	—	133.971
Architectural Coatings	8.48533	8.48533	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.09797	0.08096	0.59369	0.80385	0.00123	0.01361	—	0.01361	0.01252	—	0.01252	—	95.3662	95.3662	0.00387	0.00077	—	95.6935
Architectural Coatings	6.06095	6.06095	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01788	0.01478	0.10835	0.14670	0.00022	0.00248	—	0.00248	0.00228	—	0.00228	—	15.7890	15.7890	0.00064	0.00013	—	15.8432
Architectural Coatings	1.10612	1.10612	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32171	0.29563	0.17575	3.55594	0.00000	0.00000	0.66743	0.66743	0.00000	0.15644	0.15644	—	708.169	708.169	0.01226	0.02608	2.22168	718.469
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27986	0.27286	0.22791	2.80014	0.00000	0.00000	0.66743	0.66743	0.00000	0.15644	0.15644	—	640.290	640.290	0.01752	0.02783	0.05748	649.079

Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19990	0.19490	0.14417	2.05864	0.00000	0.00000	0.47398	0.47398	0.00000	0.11106	0.11106	—	468.759	468.759	0.01001	0.01988	0.68497	475.619
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03648	0.03557	0.02631	0.37570	0.00000	0.00000	0.08650	0.08650	0.00000	0.02027	0.02027	—	77.6084	77.6084	0.00166	0.00329	0.11340	78.7441
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9. Architectural Coating (2028)

3.9.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	8.48533	8.48533	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	8.48533	8.48533	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04803	0.03969	0.29890	0.41363	0.00064	0.00568	—	0.00568	0.00523	—	0.00523	—	49.3830	49.3830	0.00200	0.00040	—	49.5525
Architectural Coatings	3.13841	3.13841	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00876	0.00724	0.05455	0.07549	0.00012	0.00104	—	0.00104	0.00095	—	0.00095	—	8.17592	8.17592	0.00033	0.00007	—	8.20398
Architectural Coatings	0.57276	0.57276	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.2. Offsite - 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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28687	0.28162	0.17225	3.31090	0.00000	0.00000	0.66743	0.66743	0.00000	0.15644	0.15644	—	694.421	694.421	0.01226	0.02608	1.98640	704.486
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26585	0.23802	0.20358	2.61738	0.00000	0.00000	0.66743	0.66743	0.00000	0.15644	0.15644	—	628.001	628.001	0.01576	0.02783	0.05152	636.741
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09898	0.08868	0.07335	0.98687	0.00000	0.00000	0.24543	0.24543	0.00000	0.05751	0.05751	—	238.051	238.051	0.00518	0.00965	0.31723	241.373
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01806	0.01618	0.01339	0.18010	0.00000	0.00000	0.04479	0.04479	0.00000	0.01049	0.01049	—	39.4121	39.4121	0.00086	0.00160	0.05252	39.9620
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	18.9086	17.7591	13.0211	120.313	0.27964	0.21983	24.1233	24.3431	0.20636	6.13478	6.34114	—	28,530.9	28,530.9	1.22428	1.34488	81.1098	29,043.4
Apartments Mid Rise	7.04926	6.55211	5.53142	52.5814	0.12830	0.09934	11.1580	11.2574	0.09329	2.83759	2.93088	—	13,089.2	13,089.2	0.49470	0.58259	37.5166	13,312.7
Total	25.9579	24.3112	18.5526	172.895	0.40794	0.31917	35.2813	35.6005	0.29965	8.97237	9.27202	—	41,620.2	41,620.2	1.71898	1.92747	118.626	42,356.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	17.5326	16.3023	15.0043	109.529	0.25957	0.22003	24.1233	24.3433	0.20655	6.13478	6.34134	—	26,500.9	26,500.9	1.42250	1.45702	2.10310	26,972.8
Apartments Mid Rise	6.56459	6.04188	6.37832	46.1879	0.11898	0.09941	11.1580	11.2574	0.09336	2.83759	2.93095	—	12,147.1	12,147.1	0.56244	0.62987	0.97277	12,349.8
Total	24.0972	22.3442	21.3826	155.717	0.37855	0.31944	35.2813	35.6008	0.29991	8.97237	9.27228	—	38,648.0	38,648.0	1.98494	2.08689	3.07588	39,322.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	2.47190	2.30476	1.99116	15.1509	0.03723	0.03099	3.37949	3.41048	0.02909	0.85952	0.88861	—	3,447.91	3,447.91	0.16940	0.17949	4.47668	3,510.11
Apartments Mid Rise	1.13919	1.05105	1.04316	7.97907	0.02102	0.01724	1.92470	1.94194	0.01619	0.48952	0.50571	—	1,946.51	1,946.51	0.08323	0.09569	2.54958	1,979.66
Total	3.61109	3.35581	3.03432	23.1300	0.05825	0.04823	5.30420	5.35242	0.04528	1.34904	1.39432	—	5,394.42	5,394.42	0.25263	0.27518	7.02626	5,489.77

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	947.250	947.250	0.15324	0.01858	—	956.616
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	848.337	848.337	0.13724	0.01664	—	856.725
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,795.59	1,795.59	0.29049	0.03521	—	1,813.34
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	947.250	947.250	0.15324	0.01858	—	956.616
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	848.337	848.337	0.13724	0.01664	—	856.725
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,795.59	1,795.59	0.29049	0.03521	—	1,813.34
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	156.828	156.828	0.02537	0.00308	—	158.379
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	140.452	140.452	0.02272	0.00275	—	141.841
Total	—	—	—	—	—	—	—	—	—	—	—	—	297.280	297.280	0.04809	0.00583	—	300.219

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

High School	0.47213	0.23606	4.29208	3.60535	0.02575	0.32620	—	0.32620	0.32620	—	0.32620	—	5,121.17	5,121.17	0.45322	0.00964	—	5,135.38
Apartments Mid Rise	0.13692	0.06846	1.17008	0.49791	0.00747	0.09460	—	0.09460	0.09460	—	0.09460	—	1,485.22	1,485.22	0.13144	0.00280	—	1,489.34
Total	0.60905	0.30453	5.46217	4.10326	0.03322	0.42080	—	0.42080	0.42080	—	0.42080	—	6,606.39	6,606.39	0.58466	0.01244	—	6,624.71
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	0.47213	0.23606	4.29208	3.60535	0.02575	0.32620	—	0.32620	0.32620	—	0.32620	—	5,121.17	5,121.17	0.45322	0.00964	—	5,135.38
Apartments Mid Rise	0.13692	0.06846	1.17008	0.49791	0.00747	0.09460	—	0.09460	0.09460	—	0.09460	—	1,485.22	1,485.22	0.13144	0.00280	—	1,489.34
Total	0.60905	0.30453	5.46217	4.10326	0.03322	0.42080	—	0.42080	0.42080	—	0.42080	—	6,606.39	6,606.39	0.58466	0.01244	—	6,624.71
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	0.08616	0.04308	0.78331	0.65798	0.00470	0.05953	—	0.05953	0.05953	—	0.05953	—	847.868	847.868	0.07504	0.00160	—	850.220
Apartments Mid Rise	0.02499	0.01249	0.21354	0.09087	0.00136	0.01726	—	0.01726	0.01726	—	0.01726	—	245.895	245.895	0.02176	0.00046	—	246.577
Total	0.11115	0.05558	0.99685	0.74884	0.00606	0.07680	—	0.07680	0.07680	—	0.07680	—	1,093.76	1,093.76	0.09680	0.00206	—	1,096.80

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	17.2130	8.51372	4.02396	77.0223	0.26522	11.0503	—	11.0503	10.6482	—	10.6482	1,826.01	3,537.39	5,363.40	8.60284	0.00666	—	5,580.46

Consumer Product	14.8170	14.8170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02289	1.02289	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.61731	4.30343	0.31585	35.1803	0.00179	0.03750	—	0.03750	0.02832	—	0.02832	—	117.109	117.109	0.00491	0.00099	—	117.526
Total	37.6702	28.6571	4.33981	112.203	0.26700	11.0877	—	11.0877	10.6765	—	10.6765	1,826.01	3,654.50	5,480.51	8.60775	0.00765	—	5,697.98
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	17.2130	8.51372	4.02396	77.0223	0.26522	11.0503	—	11.0503	10.6482	—	10.6482	1,826.01	3,537.39	5,363.40	8.60284	0.00666	—	5,580.46
Consumer Products	14.8170	14.8170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02289	1.02289	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	33.0529	24.3536	4.02396	77.0223	0.26522	11.0503	—	11.0503	10.6482	—	10.6482	1,826.01	3,537.39	5,363.40	8.60284	0.00666	—	5,580.46
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.70573	0.34906	0.16498	3.15791	0.01087	0.45306	—	0.45306	0.43658	—	0.43658	67.9178	131.572	199.490	0.31998	0.00025	—	207.563
Consumer Products	2.70411	2.70411	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.18668	0.18668	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipm	0.41556	0.38731	0.02843	3.16622	0.00016	0.00337	—	0.00337	0.00255	—	0.00255	—	9.56154	9.56154	0.00040	0.00008	—	9.59565
Total	4.01207	3.62715	0.19341	6.32414	0.01103	0.45644	—	0.45644	0.43912	—	0.43912	67.9178	141.133	209.051	0.32038	0.00033	—	217.159

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	23.5312	33.5947	57.1258	2.41829	0.05799	—	134.863
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	26.1880	28.4341	54.6221	2.68988	0.06436	—	141.048
Total	—	—	—	—	—	—	—	—	—	—	—	49.7192	62.0288	111.748	5.10817	0.12235	—	275.911
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	23.5312	33.5947	57.1258	2.41829	0.05799	—	134.863
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	26.1880	28.4341	54.6221	2.68988	0.06436	—	141.048
Total	—	—	—	—	—	—	—	—	—	—	—	49.7192	62.0288	111.748	5.10817	0.12235	—	275.911
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	3.89585	5.56198	9.45783	0.40037	0.00960	—	22.3281

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.33573	4.70759	9.04332	0.44534	0.01066	—	23.3521
Total	—	—	—	—	—	—	—	—	—	—	—	8.23158	10.2696	18.5012	0.84572	0.02026	—	45.6803

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	259.107	0.00000	259.107	25.8968	0.00000	—	906.526
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	133.872	0.00000	133.872	13.3800	0.00000	—	468.373
Total	—	—	—	—	—	—	—	—	—	—	—	392.979	0.00000	392.979	39.2768	0.00000	—	1,374.90
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	259.107	0.00000	259.107	25.8968	0.00000	—	906.526
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	133.872	0.00000	133.872	13.3800	0.00000	—	468.373
Total	—	—	—	—	—	—	—	—	—	—	—	392.979	0.00000	392.979	39.2768	0.00000	—	1,374.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	42.8980	0.00000	42.8980	4.28751	0.00000	—	150.086

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	22.1640	0.00000	22.1640	2.21522	0.00000	—	77.5444
Total	—	—	—	—	—	—	—	—	—	—	—	65.0621	0.00000	65.0621	6.50272	0.00000	—	227.630

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.42857	1.42857
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.31018	2.31018
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73875	3.73875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.42857	1.42857
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.31018	2.31018
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73875	3.73875
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23652	0.23652

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38248	0.38248
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61899	0.61899

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.9. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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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	6/1/2026	6/26/2026	5.00000	20.0000	—
Grading	Grading	6/29/2026	8/28/2026	5.00000	45.0000	—
Building Construction	Building Construction	10/19/2026	6/23/2028	5.00000	440.000	—
Paving	Paving	8/31/2026	10/16/2026	5.00000	35.0000	—
Architectural Coating	Architectural Coating	11/2/2026	7/7/2028	5.00000	440.000	—

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	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00000	7.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000

Paving	Pavers	Diesel	Average	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	Worker	17.5000	11.8900	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	11.8900	LDA,LDT1,LDT2
Grading	Vendor	—	9.10000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	397.246	11.8900	LDA,LDT1,LDT2
Building Construction	Vendor	96.5326	9.10000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15.0000	11.8900	LDA,LDT1,LDT2
Paving	Vendor	—	9.10000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	79.4492	11.8900	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	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	653,184	217,728	554,736	184,912	—

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	—	—	30.0000	0.00000	0.00000
Grading	—	—	135.000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.00000

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	High School	0.00000	0%
Paving	Apartments Mid Rise	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00000	203.983	0.03300	0.00400
2027	0.00000	203.983	0.03300	0.00400
2028	0.00000	203.983	0.03300	0.00400

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
High School	5,203.43	1,471.90	632.400	1,466,333	33,879.4	9,583.51	4,117.54	9,547,257
Apartments Mid Rise	1,827.84	1,649.76	1,374.24	634,224	15,670.6	14,143.9	11,781.8	5,437,392

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
High School	Wood Fireplaces	0	0
High School	Gas Fireplaces	0	0
High School	Propane Fireplaces	0	0
High School	Electric Fireplaces	0	0
High School	No Fireplaces	0	0
High School	Conventional Wood Stoves	0	0
High School	Catalytic Wood Stoves	0	0
High School	Non-Catalytic Wood Stoves	0	0
High School	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	168	168

Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	168	168
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	17	17
Apartments Mid Rise	Non-Catalytic Wood Stoves	17	17
Apartments Mid Rise	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
653,184	217,728	554,736	184,912	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

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)
High School	1,694,976	203.983	0.0330	0.0040	15,979,425
Apartments Mid Rise	1,517,984	203.983	0.0330	0.0040	4,634,277

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
High School	12,279,886	11,535,279
Apartments Mid Rise	13,666,388	3,633,832

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
High School	480.772	0.00000
Apartments Mid Rise	248.399	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
High School	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
High School	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
High School	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000

Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Building square footage and acreage adjusted to represent maximum buildout of the approved project site.
Construction: Construction Phases	Based on typical construction practices, architectural coating assumed to start two weeks after the start of building construction and last for the same number of days. Demolition not required for the proposed project.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	8.49000	16.9800
Landscape Area	sq. ft	—	369,824
Lot Area	acre	8.84211	11.2200
Landscape Area	sq. ft	—	211,821

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Site Preparation	Site Preparation	Start Date	7/14/2026	6/1/2026
Site Preparation	Site Preparation	End Date	8/11/2026	6/26/2026
Grading	Grading	Start Date	8/12/2026	6/29/2026
Grading	Grading	End Date	10/14/2026	8/28/2026
Building Construction	Building Construction	Start Date	10/15/2026	10/19/2026

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Building Construction	Building Construction	End Date	6/22/2028	6/23/2028
Paving	Paving	Start Date	6/23/2028	8/31/2026
Paving	Paving	End Date	8/11/2028	10/16/2026
Architectural Coating	Architectural Coating	Start Date	8/12/2028	11/2/2026
Architectural Coating	Architectural Coating	End Date	9/30/2028	7/7/2028
Architectural Coating	Architectural Coating	Work Days per Phase	35.0000	440.000

ATTACHMENT 5

School District Site Swap GPA - Proposed Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	School District Site Swap GPA - Proposed
Construction Start Date	6/1/2026
Operational Year	2028
Lead Agency	City of Manteca
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40000
Precipitation (days)	9.00000
Location	37.77684075970552, -121.27274357285663
County	San Joaquin
City	Manteca
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2162
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.39

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
Apartments Mid Rise	306.000	Dwelling Unit	10.2200	293,760	192,947	—	988.000	—

High School	348.044	1000sqft	15.9800	348,044	348,044	348,044	—	—
Government Office Building	43.5600	1000sqft	2.00000	43,560.0	43,560.0	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.6635	11.2308	29.2076	35.5472	0.06093	1.24251	19.8040	21.0465	1.14311	10.1369	11.2800	—	9,237.28	9,237.28	0.27119	0.57627	18.5758	9,433.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.6967	11.2365	15.6322	32.6436	0.04457	0.44069	4.57477	5.01545	0.40854	1.10330	1.51184	—	8,963.96	8,963.96	0.25500	0.58633	0.53999	9,145.60
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.15778	7.92703	10.4562	22.6374	0.03183	0.30019	3.24929	3.53107	0.27663	1.16830	1.44492	—	6,385.73	6,385.73	0.16776	0.41881	5.72292	6,520.45
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48880	1.44668	1.90825	4.13132	0.00581	0.05478	0.59299	0.64442	0.05048	0.21321	0.26370	—	1,057.23	1,057.23	0.02777	0.06934	0.94750	1,079.54

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

ATTACHMENT 5

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.81580	3.21246	29.2076	29.6512	0.06093	1.24251	19.8040	21.0465	1.14311	10.1369	11.2800	—	6,779.71	6,779.71	0.27119	0.06010	0.62149	6,805.02
2027	11.6635	11.2308	14.3465	35.5472	0.04456	0.39450	4.57477	4.96927	0.36605	1.10330	1.46935	—	9,237.28	9,237.28	0.22480	0.57627	18.5758	9,433.21
2028	11.3885	11.1058	13.7252	34.0841	0.04457	0.35447	4.57477	4.92924	0.32923	1.10330	1.43252	—	9,094.89	9,094.89	0.22482	0.55469	16.4734	9,282.28
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	11.6967	11.2365	15.6322	32.6436	0.04456	0.44069	4.57477	5.01545	0.40854	1.10330	1.51184	—	8,963.96	8,963.96	0.25500	0.58633	0.53999	9,145.60
2027	11.4188	11.0978	14.8573	31.2428	0.04456	0.39450	4.57477	4.96927	0.36605	1.10330	1.46935	—	8,849.63	8,849.63	0.25499	0.58633	0.48066	9,031.22
2028	11.2656	10.8510	14.0969	30.1354	0.04457	0.35447	4.57477	4.92924	0.32923	1.10330	1.43252	—	8,715.66	8,715.66	0.24494	0.56690	0.42698	8,891.14
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.21069	2.02760	7.85335	10.7916	0.01794	0.30019	2.89375	3.19394	0.27663	1.16830	1.44492	—	2,579.77	2,579.77	0.08652	0.09598	1.33909	2,611.88
2027	8.15778	7.92703	10.4562	22.6374	0.03183	0.28179	3.24929	3.53107	0.26147	0.78347	1.04493	—	6,385.73	6,385.73	0.16776	0.41881	5.72292	6,520.45
2028	4.09890	3.95633	4.82043	10.5144	0.01531	0.12182	1.57529	1.69710	0.11314	0.37971	0.49285	—	3,035.61	3,035.61	0.08095	0.19068	2.45668	3,096.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.40345	0.37004	1.43324	1.96947	0.00327	0.05478	0.52811	0.58289	0.05048	0.21321	0.26370	—	427.111	427.111	0.01433	0.01589	0.22170	432.427
2027	1.48880	1.44668	1.90825	4.13132	0.00581	0.05143	0.59299	0.64442	0.04772	0.14298	0.19070	—	1,057.23	1,057.23	0.02777	0.06934	0.94750	1,079.54
2028	0.74805	0.72203	0.87973	1.91888	0.00279	0.02223	0.28749	0.30972	0.02065	0.06930	0.08995	—	502.580	502.580	0.01340	0.03157	0.40673	512.730

2.2.2. Onsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.74146	3.14387	29.1635	28.8082	0.06093	1.24251	19.6570	20.8995	1.14311	10.1024	11.2456	—	6,598.58	6,598.58	0.26767	0.05353	0.00000	6,621.22

2027	9.67306	9.44837	10.2221	14.0633	0.02512	0.35562	0.00000	0.35562	0.32717	0.00000	0.32717	—	2,530.59	2,530.59	0.10265	0.02053	0.00000	2,539.27
2028	9.61981	9.40389	9.73309	14.0536	0.02513	0.31559	0.00000	0.31559	0.29035	0.00000	0.29035	—	2,530.97	2,530.97	0.10267	0.02053	0.00000	2,539.66
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	9.73065	9.49647	10.7105	14.0992	0.02512	0.40181	0.00000	0.40181	0.36966	0.00000	0.36966	—	2,530.74	2,530.74	0.10266	0.02053	0.00000	2,539.43
2027	9.67306	9.44837	10.2221	14.0633	0.02512	0.35562	0.00000	0.35562	0.32717	0.00000	0.32717	—	2,530.59	2,530.59	0.10265	0.02053	0.00000	2,539.27
2028	9.61981	9.40389	9.73309	14.0536	0.02513	0.31559	0.00000	0.31559	0.29035	0.00000	0.29035	—	2,530.97	2,530.97	0.10267	0.02053	0.00000	2,539.66
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.91607	1.76490	7.16467	7.94134	0.01512	0.29456	2.21179	2.50634	0.27099	1.00402	1.27502	—	1,611.50	1,611.50	0.06537	0.01307	0.00000	1,617.03
2027	6.90933	6.74884	7.30150	10.0452	0.01794	0.25402	0.00000	0.25402	0.23370	0.00000	0.23370	—	1,807.56	1,807.56	0.07332	0.01466	0.00000	1,813.77
2028	3.52555	3.45099	3.35539	4.84351	0.00865	0.10850	0.00000	0.10850	0.09982	0.00000	0.09982	—	870.430	870.430	0.03531	0.00706	0.00000	873.417
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.34968	0.32209	1.30755	1.44929	0.00276	0.05376	0.40365	0.45741	0.04946	0.18323	0.23269	—	266.803	266.803	0.01082	0.00216	0.00000	267.718
2027	1.26095	1.23166	1.33252	1.83326	0.00327	0.04636	0.00000	0.04636	0.04265	0.00000	0.04265	—	299.263	299.263	0.01214	0.00243	0.00000	300.290
2028	0.64341	0.62981	0.61236	0.88394	0.00158	0.01980	0.00000	0.01980	0.01822	0.00000	0.01822	—	144.110	144.110	0.00585	0.00117	0.00000	144.604

2.2.3. Offsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08495	0.07839	0.05037	0.96340	0.00000	0.00000	0.16801	0.16801	0.00000	0.03938	0.03938	—	181.132	181.132	0.00353	0.00657	0.62149	183.799
2027	1.99042	1.78245	4.12443	21.4839	0.01944	0.03888	4.57477	4.61365	0.03888	1.10330	1.14217	—	6,706.69	6,706.69	0.12215	0.55574	18.5758	6,893.93
2028	1.76866	1.70193	3.99215	20.0305	0.01944	0.03888	4.57477	4.61365	0.03888	1.10330	1.14217	—	6,563.91	6,563.91	0.12215	0.53416	16.4734	6,742.62
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.96602	1.74006	4.92177	18.5444	0.01944	0.03888	4.57477	4.61365	0.03888	1.10330	1.14217	—	6,433.22	6,433.22	0.15234	0.56580	0.53999	6,606.17

2027	1.74570	1.64947	4.63521	17.1794	0.01944	0.03888	4.57477	4.61365	0.03888	1.10330	1.14217	—	6,319.04	6,319.04	0.15234	0.56580	0.48066	6,491.94
2028	1.64574	1.44715	4.36383	16.0818	0.01944	0.03888	4.57477	4.61365	0.03888	1.10330	1.14217	—	6,184.68	6,184.68	0.14228	0.54636	0.42698	6,351.48
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.29463	0.26270	0.68868	2.85030	0.00282	0.00563	0.68197	0.68760	0.00563	0.16428	0.16991	—	968.273	968.273	0.02116	0.08291	1.33909	994.848
2027	1.24845	1.17820	3.15469	12.5921	0.01389	0.02777	3.24929	3.27706	0.02777	0.78347	0.81124	—	4,578.17	4,578.17	0.09444	0.40414	5.72292	4,706.69
2028	0.57335	0.50534	1.46504	5.67090	0.00666	0.01331	1.57529	1.58860	0.01331	0.37971	0.39303	—	2,165.18	2,165.18	0.04565	0.18362	2.45668	2,223.50
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.05377	0.04794	0.12568	0.52018	0.00051	0.00103	0.12446	0.12549	0.00103	0.02998	0.03101	—	160.309	160.309	0.00350	0.01373	0.22170	164.708
2027	0.22784	0.21502	0.57573	2.29806	0.00253	0.00507	0.59299	0.59806	0.00507	0.14298	0.14805	—	757.968	757.968	0.01564	0.06691	0.94750	779.246
2028	0.10464	0.09222	0.26737	1.03494	0.00121	0.00243	0.28749	0.28992	0.00243	0.06930	0.07173	—	358.471	358.471	0.00756	0.03040	0.40673	368.125

2.3. 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.	64.3702	54.0740	29.1693	292.565	0.70926	10.8597	37.4263	48.2861	10.4635	9.51787	19.9813	2,113.14	56,327.3	58,440.5	55.7735	2.26654	129.393	60,639.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	57.7444	47.6522	31.8743	240.131	0.67633	10.8217	37.4263	48.2480	10.4347	9.51787	19.9526	2,113.14	53,058.5	55,171.6	56.0544	2.43535	6.81717	57,305.6
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	42.8803	39.1783	23.8001	169.336	0.42079	2.97413	30.2718	33.2459	2.87039	7.69914	10.5695	823.761	43,553.8	44,377.6	49.4620	1.94709	47.7567	46,242.1
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.82566	7.15004	4.34352	30.9038	0.07679	0.54278	5.52460	6.06737	0.52385	1.40509	1.92894	136.383	7,210.83	7,347.21	8.18899	0.32236	7.90667	7,655.91

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2.4. 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	27.7907	26.0387	19.7543	183.867	0.43289	0.33892	37.4263	37.7653	0.31819	9.51787	9.83606	—	44,166.7	44,166.7	1.83423	2.05058	125.839	44,949.5
Area	35.9734	27.7322	3.97238	104.568	0.24330	10.1020	—	10.1020	9.72645	—	9.72645	1,662.98	3,338.00	5,000.98	7.83961	0.00705	—	5,199.07
Energy	0.60618	0.30309	5.44270	4.13020	0.03306	0.41881	—	0.41881	0.41881	—	0.41881	—	8,748.76	8,748.76	0.93354	0.05500	—	8,788.49
Water	—	—	—	—	—	—	—	—	—	—	—	62.5775	73.8732	136.451	6.42856	0.15391	—	343.028
Waste	—	—	—	—	—	—	—	—	—	—	—	387.584	0.00000	387.584	38.7376	0.00000	—	1,356.02
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.55429	3.55429
Total	64.3702	54.0740	29.1693	292.565	0.70926	10.8597	37.4263	48.2861	10.4635	9.51787	19.9813	2,113.14	56,327.3	58,440.5	55.7735	2.26654	129.393	60,639.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.7941	23.9276	22.7670	165.855	0.40173	0.33922	37.4263	37.7656	0.31847	9.51787	9.83634	—	41,014.3	41,014.3	2.11996	2.22038	3.26288	41,732.3
Area	31.3441	23.4215	3.66468	70.1453	0.24154	10.0636	—	10.0636	9.69745	—	9.69745	1,662.98	3,221.55	4,884.53	7.83473	0.00607	—	5,082.20
Energy	0.60618	0.30309	5.44270	4.13020	0.03306	0.41881	—	0.41881	0.41881	—	0.41881	—	8,748.76	8,748.76	0.93354	0.05500	—	8,788.49
Water	—	—	—	—	—	—	—	—	—	—	—	62.5775	73.8732	136.451	6.42856	0.15391	—	343.028
Waste	—	—	—	—	—	—	—	—	—	—	—	387.584	0.00000	387.584	38.7376	0.00000	—	1,356.02
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.55429	3.55429
Total	57.7444	47.6522	31.8743	240.131	0.67633	10.8217	37.4263	48.2480	10.4347	9.51787	19.9526	2,113.14	53,058.5	55,171.6	56.0544	2.43535	6.81717	57,305.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	20.8015	19.3396	17.3824	132.472	0.33259	0.27552	30.2718	30.5473	0.25867	7.69914	7.95782	—	33,950.0	33,950.0	1.59975	1.73633	44.2024	34,551.6
Area	21.4726	19.5357	0.97504	32.7342	0.05514	2.27980	—	2.27980	2.19290	—	2.19290	373.600	781.175	1,154.77	1.76254	0.00185	—	1,199.39
Energy	0.60618	0.30309	5.44270	4.13020	0.03306	0.41881	—	0.41881	0.41881	—	0.41881	—	8,748.76	8,748.76	0.93354	0.05500	—	8,788.49
Water	—	—	—	—	—	—	—	—	—	—	—	62.5775	73.8732	136.451	6.42856	0.15391	—	343.028
Waste	—	—	—	—	—	—	—	—	—	—	—	387.584	0.00000	387.584	38.7376	0.00000	—	1,356.02

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.55429	3.55429
Total	42.8803	39.1783	23.8001	169.336	0.42079	2.97413	30.2718	33.2459	2.87039	7.69914	10.5695	823.761	43,553.8	44,377.6	49.4620	1.94709	47.7567	46,242.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.79628	3.52947	3.17228	24.1761	0.06070	0.05028	5.52460	5.57488	0.04721	1.40509	1.45230	—	5,620.81	5,620.81	0.26486	0.28747	7.31822	5,720.42
Area	3.91876	3.56526	0.17794	5.97399	0.01006	0.41606	—	0.41606	0.40021	—	0.40021	61.8537	129.332	191.186	0.29181	0.00031	—	198.573
Energy	0.11063	0.05531	0.99329	0.75376	0.00603	0.07643	—	0.07643	0.07643	—	0.07643	—	1,448.46	1,448.46	0.15456	0.00911	—	1,455.03
Water	—	—	—	—	—	—	—	—	—	—	—	10.3604	12.2306	22.5910	1.06432	0.02548	—	56.7923
Waste	—	—	—	—	—	—	—	—	—	—	—	64.1689	0.00000	64.1689	6.41345	0.00000	—	224.505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.58845	0.58845
Total	7.82566	7.15004	4.34352	30.9038	0.07679	0.54278	5.52460	6.06737	0.52385	1.40509	1.92894	136.383	7,210.83	7,347.21	8.18899	0.32236	7.90667	7,655.91

3. Construction Emissions Details

3.1. Site Preparation (2026)

3.1.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.74146	3.14387	29.1635	28.8082	0.04890	1.24251	—	1.24251	1.14311	—	1.14311	—	5,297.94	5,297.94	0.21491	0.04298	—	5,316.12
Dust From Material Movement	—	—	—	—	—	—	19.6570	19.6570	—	10.1024	10.1024	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20501	0.17227	1.59800	1.57853	0.00268	0.06808	—	0.06808	0.06264	—	0.06264	—	290.298	290.298	0.01178	0.00236	—	291.294
Dust From Material Movement	—	—	—	—	—	—	1.07710	1.07710	—	0.55356	0.55356	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03741	0.03144	0.29164	0.28808	0.00049	0.01243	—	0.01243	0.01143	—	0.01143	—	48.0622	48.0622	0.00195	0.00039	—	48.2271
Dust From Material Movement	—	—	—	—	—	—	0.19657	0.19657	—	0.10102	0.10102	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07433	0.06859	0.04407	0.84297	0.00000	0.00000	0.14701	0.14701	0.00000	0.03446	0.03446	—	158.491	158.491	0.00309	0.00574	0.54381	160.824
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00382	0.00348	0.00273	0.03743	0.00000	0.00000	0.00801	0.00801	0.00000	0.00188	0.00188	—	8.04589	8.04589	0.00019	0.00034	0.01287	8.16362
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00070	0.00064	0.00050	0.00683	0.00000	0.00000	0.00146	0.00146	0.00000	0.00034	0.00034	—	1.33209	1.33209	0.00003	0.00006	0.00213	1.35158
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2. Grading (2026)

3.2.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.62261	3.04400	27.2253	27.5707	0.06093	1.12137	—	1.12137	1.03166	—	1.03166	—	6,598.58	6,598.58	0.26767	0.05353	—	6,621.22
Dust From Material Movement	—	—	—	—	—	—	9.20359	9.20359	—	3.65375	3.65375	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTACHMENT 5

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44662	0.37529	3.35654	3.39912	0.00751	0.13825	—	0.13825	0.12719	—	0.12719	—	813.523	813.523	0.03300	0.00660	—	816.315
Dust From Material Movement	—	—	—	—	—	—	1.13469	1.13469	—	0.45046	0.45046	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08151	0.06849	0.61257	0.62034	0.00137	0.02523	—	0.02523	0.02321	—	0.02321	—	134.688	134.688	0.00546	0.00109	—	135.150
Dust From Material Movement	—	—	—	—	—	—	0.20708	0.20708	—	0.08221	0.08221	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08495	0.07839	0.05037	0.96340	0.00000	0.00000	0.16801	0.16801	0.00000	0.03938	0.03938	—	181.132	181.132	0.00353	0.00657	0.62149	183.799
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTACHMENT 5

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00982	0.00896	0.00702	0.09625	0.00000	0.00000	0.02059	0.02059	0.00000	0.00483	0.00483	—	20.6894	20.6894	0.00049	0.00086	0.03309	20.9922
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00179	0.00163	0.00128	0.01757	0.00000	0.00000	0.00376	0.00376	0.00000	0.00088	0.00088	—	3.42537	3.42537	0.00008	0.00014	0.00548	3.47549
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Building Construction (2026)

3.3.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27993	1.07101	9.85401	12.9664	0.02340	0.37865	—	0.37865	0.34836	—	0.34836	—	2,397.24	2,397.24	0.09724	0.01945	—	2,405.47
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.18535	0.15510	1.42700	1.87771	0.00339	0.05483	—	0.05483	0.05045	—	0.05045	—	347.154	347.154	0.01408	0.00282	—	348.346
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03383	0.02831	0.26043	0.34268	0.00062	0.01001	—	0.01001	0.00921	—	0.00921	—	57.4753	57.4753	0.00233	0.00047	—	57.6726
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.52371	1.38205	1.20784	14.5080	0.00000	0.00000	3.19595	3.19595	0.00000	0.74913	0.74913	—	3,114.26	3,114.26	0.08387	0.13327	0.30660	3,156.38
Vendor	0.13757	0.08160	3.47235	1.13474	0.01944	0.03888	0.73962	0.77850	0.03888	0.20434	0.24322	—	2,696.10	2,696.10	0.05170	0.40587	0.17207	2,818.52
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21944	0.20014	0.15683	2.15051	0.00000	0.00000	0.46014	0.46014	0.00000	0.10782	0.10782	—	462.267	462.267	0.01093	0.01930	0.73932	469.031
Vendor	0.02023	0.01244	0.49258	0.16123	0.00282	0.00563	0.10659	0.11222	0.00563	0.02946	0.03509	—	390.239	390.239	0.00749	0.05878	0.41463	408.356
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04005	0.03653	0.02862	0.39247	0.00000	0.00000	0.08398	0.08398	0.00000	0.01968	0.01968	—	76.5336	76.5336	0.00181	0.00320	0.12240	77.6535
Vendor	0.00369	0.00227	0.08990	0.02942	0.00051	0.00103	0.01945	0.02048	0.00103	0.00538	0.00640	—	64.6085	64.6085	0.00124	0.00973	0.06865	67.6080

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction (2027)

3.4.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23076	1.02988	9.39093	12.9379	0.02340	0.33657	—	0.33657	0.30965	—	0.30965	—	2,397.08	2,397.08	0.09724	0.01945	—	2,405.30
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23076	1.02988	9.39093	12.9379	0.02340	0.33657	—	0.33657	0.30965	—	0.30965	—	2,397.08	2,397.08	0.09724	0.01945	—	2,405.30
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87911	0.73563	6.70781	9.24139	0.01671	0.24041	—	0.24041	0.22118	—	0.22118	—	1,712.20	1,712.20	0.06945	0.01389	—	1,718.07
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.16044	0.13425	1.22418	1.68655	0.00305	0.04387	—	0.04387	0.04036	—	0.04036	—	283.474	283.474	0.01150	0.00230	—	284.447
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.54048	1.41559	0.84157	17.0274	0.00000	0.00000	3.19595	3.19595	0.00000	0.74913	0.74913	—	3,391.02	3,391.02	0.05871	0.12489	10.6384	3,440.35
Vendor	0.14184	0.08374	3.11454	1.05100	0.01944	0.03888	0.73962	0.77850	0.03888	0.20434	0.24322	—	2,637.46	2,637.46	0.05170	0.40587	5.80979	2,765.52
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.34011	1.30656	1.09134	13.4083	0.00000	0.00000	3.19595	3.19595	0.00000	0.74913	0.74913	—	3,065.99	3,065.99	0.08387	0.13327	0.27523	3,108.08
Vendor	0.13757	0.08160	3.32560	1.08945	0.01944	0.03888	0.73962	0.77850	0.03888	0.20434	0.24322	—	2,639.86	2,639.86	0.05170	0.40587	0.15039	2,762.25
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.95722	0.93326	0.69033	9.85767	0.00000	0.00000	2.26963	2.26963	0.00000	0.53179	0.53179	—	2,244.62	2,244.62	0.04793	0.09519	3.27992	2,277.47
Vendor	0.09979	0.05829	2.32630	0.76292	0.01389	0.02777	0.52573	0.55350	0.02777	0.14532	0.17309	—	1,884.62	1,884.62	0.03693	0.28991	1.78702	1,973.72
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17469	0.17032	0.12598	1.79903	0.00000	0.00000	0.41421	0.41421	0.00000	0.09705	0.09705	—	371.623	371.623	0.00793	0.01576	0.54303	377.061
Vendor	0.01821	0.01064	0.42455	0.13923	0.00253	0.00507	0.09595	0.10101	0.00507	0.02652	0.03159	—	312.020	312.020	0.00611	0.04800	0.29586	326.772
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTACHMENT 5

3.5. Building Construction (2028)

3.5.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18481	0.99143	8.92495	12.9352	0.02340	0.30024	—	0.30024	0.27622	—	0.27622	—	2,397.46	2,397.46	0.09725	0.01945	—	2,405.68
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18481	0.99143	8.92495	12.9352	0.02340	0.30024	—	0.30024	0.27622	—	0.27622	—	2,397.46	2,397.46	0.09725	0.01945	—	2,405.68
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40576	0.33953	3.05649	4.42988	0.00801	0.10282	—	0.10282	0.09460	—	0.09460	—	821.047	821.047	0.03331	0.00666	—	823.865
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07405	0.06196	0.55781	0.80845	0.00146	0.01876	—	0.01876	0.01726	—	0.01726	—	135.934	135.934	0.00551	0.00110	—	136.400

ATTACHMENT 5

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.37366	1.34850	0.82480	15.8540	0.00000	0.00000	3.19595	3.19595	0.00000	0.74913	0.74913	—	3,325.19	3,325.19	0.05871	0.12489	9.51177	3,373.39
Vendor	0.12027	0.08374	3.00239	1.00571	0.01944	0.03888	0.73962	0.77850	0.03888	0.20434	0.24322	—	2,573.68	2,573.68	0.05170	0.38430	5.05925	2,694.55
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.27301	1.13974	0.97485	12.5332	0.00000	0.00000	3.19595	3.19595	0.00000	0.74913	0.74913	—	3,007.15	3,007.15	0.07548	0.13327	0.24671	3,048.99
Vendor	0.11813	0.07947	3.19401	1.04203	0.01944	0.03888	0.73962	0.77850	0.03888	0.20434	0.24322	—	2,576.11	2,576.11	0.05170	0.38643	0.13093	2,692.69
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43884	0.39319	0.32523	4.37551	0.00000	0.00000	1.08818	1.08818	0.00000	0.25497	0.25497	—	1,055.46	1,055.46	0.02298	0.04277	1.40652	1,070.18
Vendor	0.03972	0.02721	1.06955	0.35027	0.00666	0.01331	0.25206	0.26538	0.01331	0.06967	0.08299	—	881.746	881.746	0.01770	0.13161	0.74636	922.154
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08009	0.07176	0.05936	0.79853	0.00000	0.00000	0.19859	0.19859	0.00000	0.04653	0.04653	—	174.743	174.743	0.00380	0.00708	0.23287	177.181
Vendor	0.00725	0.00497	0.19519	0.06393	0.00121	0.00243	0.04600	0.04843	0.00243	0.01272	0.01515	—	145.983	145.983	0.00293	0.02179	0.12357	152.673
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Paving (2026)

ATTACHMENT 5

3.6.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90546	0.76084	7.11822	9.93804	0.01395	0.31987	—	0.31987	0.29428	—	0.29428	—	1,510.59	1,510.59	0.06128	0.01226	—	1,515.78
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90546	0.76084	7.11822	9.93804	0.01395	0.31987	—	0.31987	0.29428	—	0.29428	—	1,510.59	1,510.59	0.06128	0.01226	—	1,515.78
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08682	0.07296	0.68257	0.95296	0.00134	0.03067	—	0.03067	0.02822	—	0.02822	—	144.851	144.851	0.00588	0.00118	—	145.348
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01585	0.01331	0.12457	0.17392	0.00024	0.00560	—	0.00560	0.00515	—	0.00515	—	23.9818	23.9818	0.00097	0.00019	—	24.0641
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06371	0.05879	0.03778	0.72255	0.00000	0.00000	0.12601	0.12601	0.00000	0.02954	0.02954	—	135.849	135.849	0.00265	0.00492	0.46612	137.849
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06008	0.05449	0.04762	0.57203	0.00000	0.00000	0.12601	0.12601	0.00000	0.02954	0.02954	—	122.790	122.790	0.00331	0.00525	0.01209	124.451
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00573	0.00523	0.00409	0.05615	0.00000	0.00000	0.01201	0.01201	0.00000	0.00281	0.00281	—	12.0688	12.0688	0.00029	0.00050	0.01930	12.2454
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00105	0.00095	0.00075	0.01025	0.00000	0.00000	0.00219	0.00219	0.00000	0.00051	0.00051	—	1.99813	1.99813	0.00005	0.00008	0.00320	2.02737
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTACHMENT 5

3.7. Architectural Coating (2026)

3.7.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14557	0.12031	0.85645	1.13283	0.00173	0.02315	—	0.02315	0.02130	—	0.02130	—	133.504	133.504	0.00542	0.00108	—	133.963
Architectural Coatings	8.30515	8.30515	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01709	0.01413	0.10056	0.13301	0.00020	0.00272	—	0.00272	0.00250	—	0.00250	—	15.6757	15.6757	0.00064	0.00013	—	15.7295
Architectural Coatings	0.97516	0.97516	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.00312	0.00258	0.01835	0.02427	0.00004	0.00050	—	0.00050	0.00046	—	0.00046	—	2.59529	2.59529	0.00011	0.00002	—	2.60419
Architectural Coatings	0.17797	0.17797	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30474	0.27641	0.24157	2.90161	0.00000	0.00000	0.63919	0.63919	0.00000	0.14983	0.14983	—	622.853	622.853	0.01677	0.02665	0.06132	631.276
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03558	0.03246	0.02543	0.34873	0.00000	0.00000	0.07462	0.07462	0.00000	0.01748	0.01748	—	74.9623	74.9623	0.00177	0.00313	0.11989	76.0591
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00649	0.00592	0.00464	0.06364	0.00000	0.00000	0.01362	0.01362	0.00000	0.00319	0.00319	—	12.4109	12.4109	0.00029	0.00052	0.01985	12.5925
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTACHMENT 5

3.8. Architectural Coating (2027)

3.8.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13715	0.11335	0.83116	1.12539	0.00173	0.01905	—	0.01905	0.01752	—	0.01752	—	133.513	133.513	0.00542	0.00108	—	133.971
Architectural Coatings	8.30515	8.30515	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13715	0.11335	0.83116	1.12539	0.00173	0.01905	—	0.01905	0.01752	—	0.01752	—	133.513	133.513	0.00542	0.00108	—	133.971
Architectural Coatings	8.30515	8.30515	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.09797	0.08096	0.59369	0.80385	0.00123	0.01361	—	0.01361	0.01252	—	0.01252	—	95.3662	95.3662	0.00387	0.00077	—	95.6935
Architectural Coatings	5.93225	5.93225	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01788	0.01478	0.10835	0.14670	0.00022	0.00248	—	0.00248	0.00228	—	0.00228	—	15.7890	15.7890	0.00064	0.00013	—	15.8432
Architectural Coatings	1.08264	1.08264	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30810	0.28312	0.16831	3.40548	0.00000	0.00000	0.63919	0.63919	0.00000	0.14983	0.14983	—	678.205	678.205	0.01174	0.02498	2.12767	688.069
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26802	0.26131	0.21827	2.68166	0.00000	0.00000	0.63919	0.63919	0.00000	0.14983	0.14983	—	613.198	613.198	0.01677	0.02665	0.05505	621.615

Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19144	0.18665	0.13807	1.97153	0.00000	0.00000	0.45393	0.45393	0.00000	0.10636	0.10636	—	448.925	448.925	0.00959	0.01904	0.65598	455.494
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03494	0.03406	0.02520	0.35981	0.00000	0.00000	0.08284	0.08284	0.00000	0.01941	0.01941	—	74.3246	74.3246	0.00159	0.00315	0.10861	75.4122
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9. Architectural Coating (2028)

3.9.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	8.30515	8.30515	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ATTACHMENT 5

Off-Roa Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	8.30515	8.30515	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04803	0.03969	0.29890	0.41363	0.00064	0.00568	—	0.00568	0.00523	—	0.00523	—	49.3830	49.3830	0.00200	0.00040	—	49.5525
Architectural Coatings	3.07177	3.07177	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00876	0.00724	0.05455	0.07549	0.00012	0.00104	—	0.00104	0.00095	—	0.00095	—	8.17592	8.17592	0.00033	0.00007	—	8.20398
Architectural Coatings	0.56060	0.56060	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.2. Offsite - 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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27473	0.26970	0.16496	3.17080	0.00000	0.00000	0.63919	0.63919	0.00000	0.14983	0.14983	—	665.039	665.039	0.01174	0.02498	1.90235	674.678
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25460	0.22795	0.19497	2.50664	0.00000	0.00000	0.63919	0.63919	0.00000	0.14983	0.14983	—	601.429	601.429	0.01510	0.02665	0.04934	609.799
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09479	0.08493	0.07025	0.94511	0.00000	0.00000	0.23505	0.23505	0.00000	0.05507	0.05507	—	227.979	227.979	0.00496	0.00924	0.30381	231.160
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01730	0.01550	0.01282	0.17248	0.00000	0.00000	0.04290	0.04290	0.00000	0.01005	0.01005	—	37.7445	37.7445	0.00082	0.00153	0.05030	38.2711
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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

ATTACHMENT 5

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	6.41987	5.96710	5.03754	47.8866	0.11684	0.09047	10.1618	10.2522	0.08496	2.58423	2.66920	—	11,920.6	11,920.6	0.45053	0.53057	34.1669	12,124.1
High School	17.7950	16.7132	12.2543	113.228	0.26317	0.20688	22.7026	22.9095	0.19421	5.77349	5.96770	—	26,850.7	26,850.7	1.15218	1.26568	76.3330	27,333.0
Government Office Building	3.57580	3.35842	2.46243	22.7524	0.05288	0.04157	4.56196	4.60353	0.03902	1.16015	1.19917	—	5,395.48	5,395.48	0.23152	0.25433	15.3387	5,492.40
Total	27.7907	26.0387	19.7543	183.867	0.43289	0.33892	37.4263	37.7653	0.31819	9.51787	9.83606	—	44,166.7	44,166.7	1.83423	2.05058	125.839	44,949.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	5.97847	5.50243	5.80882	42.0640	0.10836	0.09053	10.1618	10.2523	0.08502	2.58423	2.66926	—	11,062.5	11,062.5	0.51222	0.57363	0.88592	11,247.2
High School	16.5001	15.3423	14.1207	103.078	0.24428	0.20707	22.7026	22.9097	0.19439	5.77349	5.96788	—	24,940.2	24,940.2	1.33873	1.37121	1.97925	25,384.3
Government Office Building	3.31559	3.08294	2.83746	20.7130	0.04909	0.04161	4.56196	4.60357	0.03906	1.16015	1.19921	—	5,011.59	5,011.59	0.26901	0.27554	0.39772	5,100.82
Total	25.7941	23.9276	22.7670	165.855	0.40173	0.33922	37.4263	37.7656	0.31847	9.51787	9.83634	—	41,014.3	41,014.3	2.11996	2.22038	3.26288	41,732.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.03748	0.95721	0.95002	7.26665	0.01914	0.01570	1.75285	1.76856	0.01474	0.44581	0.46056	—	1,772.72	1,772.72	0.07580	0.08715	2.32194	1,802.90
High School	2.32632	2.16902	1.87389	14.2587	0.03504	0.02916	3.18047	3.20963	0.02737	0.80890	0.83628	—	3,244.85	3,244.85	0.15942	0.16892	4.21304	3,303.39
Government Office Building	0.43248	0.40324	0.34837	2.65079	0.00651	0.00542	0.59127	0.59669	0.00509	0.15038	0.15547	—	603.243	603.243	0.02964	0.03140	0.78324	614.125
Total	3.79628	3.52947	3.17228	24.1761	0.06070	0.05028	5.52460	5.57488	0.04721	1.40509	1.45230	—	5,620.81	5,620.81	0.26486	0.28747	7.31822	5,720.42

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	772.593	772.593	0.12499	0.01515	—	780.232
High School	—	—	—	—	—	—	—	—	—	—	—	—	891.464	891.464	0.14422	0.01748	—	900.278
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	509.500	509.500	0.08243	0.00999	—	514.538
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,173.56	2,173.56	0.35163	0.04262	—	2,195.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	772.593	772.593	0.12499	0.01515	—	780.232
High School	—	—	—	—	—	—	—	—	—	—	—	—	891.464	891.464	0.14422	0.01748	—	900.278
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	509.500	509.500	0.08243	0.00999	—	514.538
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,173.56	2,173.56	0.35163	0.04262	—	2,195.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	127.912	127.912	0.02069	0.00251	—	129.176
High School	—	—	—	—	—	—	—	—	—	—	—	—	147.592	147.592	0.02388	0.00289	—	149.051
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	84.3536	84.3536	0.01365	0.00165	—	85.1877
Total	—	—	—	—	—	—	—	—	—	—	—	—	359.857	359.857	0.05822	0.00706	—	363.415

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.12470	0.06235	1.06561	0.45345	0.00680	0.08616	—	0.08616	0.08616	—	0.08616	—	1,352.61	1,352.61	0.11971	0.00255	—	1,356.36
High School	0.44432	0.22216	4.03931	3.39302	0.02424	0.30699	—	0.30699	0.30699	—	0.30699	—	4,819.57	4,819.57	0.42653	0.00908	—	4,832.94
Government Office Building	0.03716	0.01858	0.33777	0.28373	0.00203	0.02567	—	0.02567	0.02567	—	0.02567	—	403.021	403.021	0.03567	0.00076	—	404.139
Total	0.60618	0.30309	5.44270	4.13020	0.03306	0.41881	—	0.41881	0.41881	—	0.41881	—	6,575.20	6,575.20	0.58190	0.01238	—	6,593.44
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.12470	0.06235	1.06561	0.45345	0.00680	0.08616	—	0.08616	0.08616	—	0.08616	—	1,352.61	1,352.61	0.11971	0.00255	—	1,356.36
High School	0.44432	0.22216	4.03931	3.39302	0.02424	0.30699	—	0.30699	0.30699	—	0.30699	—	4,819.57	4,819.57	0.42653	0.00908	—	4,832.94

Govern Office Building	0.03716	0.01858	0.33777	0.28373	0.00203	0.02567	—	0.02567	0.02567	—	0.02567	—	403.021	403.021	0.03567	0.00076	—	404.139
Total	0.60618	0.30309	5.44270	4.13020	0.03306	0.41881	—	0.41881	0.41881	—	0.41881	—	6,575.20	6,575.20	0.58190	0.01238	—	6,593.44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.02276	0.01138	0.19447	0.08275	0.00124	0.01572	—	0.01572	0.01572	—	0.01572	—	223.940	223.940	0.01982	0.00042	—	224.561
High School	0.08109	0.04054	0.73717	0.61923	0.00442	0.05603	—	0.05603	0.05603	—	0.05603	—	797.935	797.935	0.07062	0.00150	—	800.148
Government Office Building	0.00678	0.00339	0.06164	0.05178	0.00037	0.00468	—	0.00468	0.00468	—	0.00468	—	66.7248	66.7248	0.00591	0.00013	—	66.9098
Total	0.11063	0.05531	0.99329	0.75376	0.00603	0.07643	—	0.07643	0.07643	—	0.07643	—	1,088.60	1,088.60	0.09634	0.00205	—	1,091.62

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	15.6761	7.75357	3.66468	70.1453	0.24154	10.0636	—	10.0636	9.69745	—	9.69745	1,662.98	3,221.55	4,884.53	7.83473	0.00607	—	5,082.20
Consumer Products	14.6668	14.6668	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.00117	1.00117	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipm	4.62925	4.31069	0.30770	34.4225	0.00177	0.03838	—	0.03838	0.02899	—	0.02899	—	116.453	116.453	0.00488	0.00099	—	116.869
Total	35.9734	27.7322	3.97238	104.568	0.24330	10.1020	—	10.1020	9.72645	—	9.72645	1,662.98	3,338.00	5,000.98	7.83961	0.00705	—	5,199.07
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	15.6761	7.75357	3.66468	70.1453	0.24154	10.0636	—	10.0636	9.69745	—	9.69745	1,662.98	3,221.55	4,884.53	7.83473	0.00607	—	5,082.20
Consumer Products	14.6668	14.6668	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.00117	1.00117	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	31.3441	23.4215	3.66468	70.1453	0.24154	10.0636	—	10.0636	9.69745	—	9.69745	1,662.98	3,221.55	4,884.53	7.83473	0.00607	—	5,082.20
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.64272	0.31790	0.15025	2.87596	0.00990	0.41261	—	0.41261	0.39760	—	0.39760	61.8537	119.824	181.678	0.29141	0.00023	—	189.031
Consumer Products	2.67669	2.67669	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.18271	0.18271	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.41663	0.38796	0.02769	3.09803	0.00016	0.00345	—	0.00345	0.00261	—	0.00261	—	9.50804	9.50804	0.00040	0.00008	—	9.54198
Total	3.91876	3.56526	0.17794	5.97399	0.01006	0.41606	—	0.41606	0.40021	—	0.40021	61.8537	129.332	191.186	0.29181	0.00031	—	198.573

4.4. Water Emissions by Land Use

ATTACHMENT 5

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	23.8498	25.8960	49.7458	2.44971	0.05861	—	128.455
High School	—	—	—	—	—	—	—	—	—	—	—	22.1453	31.6162	53.7615	2.27587	0.05457	—	126.921
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	16.5824	16.3610	32.9434	1.70298	0.04072	—	87.6524
Total	—	—	—	—	—	—	—	—	—	—	—	62.5775	73.8732	136.451	6.42856	0.15391	—	343.028
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	23.8498	25.8960	49.7458	2.44971	0.05861	—	128.455
High School	—	—	—	—	—	—	—	—	—	—	—	22.1453	31.6162	53.7615	2.27587	0.05457	—	126.921
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	16.5824	16.3610	32.9434	1.70298	0.04072	—	87.6524
Total	—	—	—	—	—	—	—	—	—	—	—	62.5775	73.8732	136.451	6.42856	0.15391	—	343.028
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	3.94861	4.28738	8.23599	0.40558	0.00970	—	21.2672

ATTACHMENT 5

High School	—	—	—	—	—	—	—	—	—	—	—	3.66641	5.23442	8.90084	0.37680	0.00904	—	21.0132
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	2.74540	2.70875	5.45415	0.28195	0.00674	—	14.5119
Total	—	—	—	—	—	—	—	—	—	—	—	10.3604	12.2306	22.5910	1.06432	0.02548	—	56.7923

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	121.904	0.00000	121.904	12.1838	0.00000	—	426.500
High School	—	—	—	—	—	—	—	—	—	—	—	243.847	0.00000	243.847	24.3716	0.00000	—	853.138
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	21.8328	0.00000	21.8328	2.18211	0.00000	—	76.3857
Total	—	—	—	—	—	—	—	—	—	—	—	387.584	0.00000	387.584	38.7376	0.00000	—	1,356.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	121.904	0.00000	121.904	12.1838	0.00000	—	426.500
High School	—	—	—	—	—	—	—	—	—	—	—	243.847	0.00000	243.847	24.3716	0.00000	—	853.138

Government Office Building	—	—	—	—	—	—	—	—	—	—	—	21.8328	0.00000	21.8328	2.18211	0.00000	—	76.3857
Total	—	—	—	—	—	—	—	—	—	—	—	387.584	0.00000	387.584	38.7376	0.00000	—	1,356.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	20.1825	0.00000	20.1825	2.01717	0.00000	—	70.6119
High School	—	—	—	—	—	—	—	—	—	—	—	40.3717	0.00000	40.3717	4.03500	0.00000	—	141.247
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	3.61468	0.00000	3.61468	0.36127	0.00000	—	12.6465
Total	—	—	—	—	—	—	—	—	—	—	—	64.1689	0.00000	64.1689	6.41345	0.00000	—	224.505

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.10391	2.10391
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.34444	1.34444
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10594	0.10594
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.55429	3.55429

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.10391	2.10391
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.34444	1.34444
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10594	0.10594
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.55429	3.55429
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34833	0.34833
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22259	0.22259
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01754	0.01754
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.58845	0.58845

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.9. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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

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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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	6/1/2026	6/26/2026	5.00000	20.0000	—
Grading	Grading	6/29/2026	8/28/2026	5.00000	45.0000	—
Building Construction	Building Construction	10/19/2026	6/23/2028	5.00000	440.000	—
Paving	Paving	8/31/2026	10/16/2026	5.00000	35.0000	—
Architectural Coating	Architectural Coating	11/2/2026	7/7/2028	5.00000	440.000	—

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	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00000	7.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	Worker	17.5000	11.8900	LDA,LDT1,LDT2

Site Preparation	Vendor	—	9.10000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	11.8900	LDA,LDT1,LDT2
Grading	Vendor	—	9.10000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	380.438	11.8900	LDA,LDT1,LDT2
Building Construction	Vendor	96.8953	9.10000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15.0000	11.8900	LDA,LDT1,LDT2
Paving	Vendor	—	9.10000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	76.0875	11.8900	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	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	594,864	198,288	587,406	195,802	—

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	—	—	30.0000	0.00000	0.00000
Grading	—	—	135.000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.00000

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Apartments Mid Rise	—	0%
Paving	High School	0.00000	0%
Paving	Government Office Building	0.00000	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00000	203.983	0.03300	0.00400
2027	0.00000	203.983	0.03300	0.00400
2028	0.00000	203.983	0.03300	0.00400

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

Apartments Mid Rise	1,664.64	1,502.46	1,251.54	577,597	14,271.5	12,881.0	10,729.8	4,951,911
High School	4,896.98	1,385.22	595.156	1,379,976	31,884.2	9,019.11	3,875.05	8,984,992
Government Office Building	984.020	0.00000	0.00000	256,548	6,406.93	0.00000	0.00000	1,670,379

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	153	153
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	153	153
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	15	15
Apartments Mid Rise	Non-Catalytic Wood Stoves	15	15
Apartments Mid Rise	Pellet Wood Stoves	0	0
High School	Wood Fireplaces	0	0
High School	Gas Fireplaces	0	0
High School	Propane Fireplaces	0	0
High School	Electric Fireplaces	0	0
High School	No Fireplaces	0	0
High School	Conventional Wood Stoves	0	0
High School	Catalytic Wood Stoves	0	0
High School	Non-Catalytic Wood Stoves	0	0
High School	Pellet Wood Stoves	0	0
Government Office Building	Wood Fireplaces	0	0

Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0
Government Office Building	Electric Fireplaces	0	0
Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
594,864	198,288	587,406	195,802	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

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)
Apartments Mid Rise	1,382,450	203.983	0.0330	0.0040	4,220,503
High School	1,595,154	203.983	0.0330	0.0040	15,038,351
Government Office Building	911,682	203.983	0.0330	0.0040	1,257,535

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	12,446,175	3,310,038
High School	11,556,689	10,855,934
Government Office Building	8,653,616	611,411

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	226.192	0.00000
High School	452.458	0.00000
Government Office Building	40.5108	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
High School	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000

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High School	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
High School	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Building square footage and acreage adjusted to represent maximum buildout of the proposed project site.
Construction: Construction Phases	Based on typical construction practices, architectural coating assumed to start two weeks after the start of building construction and last for the same number of days. Demolition not required for the proposed project.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	8.05263	10.2200
Landscape Area	sq. ft	—	192,947
Lot Area	acre	7.99000	15.9800
Landscape Area	sq. ft	—	348,044
Lot Area	acre	1.00000	2.00000
Landscape Area	sq. ft	—	43,560.0

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8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Site Preparation	Site Preparation	Start Date	7/14/2026	6/1/2026
Site Preparation	Site Preparation	End Date	8/11/2026	6/26/2026
Grading	Grading	Start Date	8/12/2026	6/29/2026
Grading	Grading	End Date	10/14/2026	8/28/2026
Building Construction	Building Construction	Start Date	10/15/2026	10/19/2026
Building Construction	Building Construction	End Date	6/22/2028	6/23/2028
Paving	Paving	Start Date	6/23/2028	8/31/2026
Paving	Paving	End Date	8/11/2028	10/16/2026
Architectural Coating	Architectural Coating	Start Date	8/12/2028	11/2/2026
Architectural Coating	Architectural Coating	End Date	9/30/2028	7/7/2028
Architectural Coating	Architectural Coating	Work Days per Phase	35.0000	440.000

ATTACHMENT 5

Cumulative GPA - Approved Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cumulative GPA - Approved
Operational Year	2028
Lead Agency	City of Manteca
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40000
Precipitation (days)	9.00000
Location	37.79663390121186, -121.24409635563963
County	San Joaquin
City	Manteca
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2166
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.39

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	19.0000	Dwelling Unit	2.46000	37,050.0	70,107.6	—	61.0000	—

Apartments Mid Rise	336.000	Dwelling Unit	11.2200	322,560	322,560	—	1,085.00	—
High School	369.824	1000sqft	16.9800	369,824	369,824	369,824	—	—
Office Park	46.2607	1000sqft	1.77000	46,261.0	15,420.2	—	—	—
Office Park	41.0335	1000sqft	1.57000	41,034.0	13,677.8	—	—	—
Manufacturing	285.100	1000sqft	9.35000	285,100	81,457.2	—	—	—
Single Family Housing	85.0000	Dwelling Unit	4.28000	165,750	20,686.8	—	275.000	—
Government Office Building	160.736	1000sqft	7.38000	160,736	64,294.6	—	—	—
Strip Mall	22.6512	1000sqft	0.52000	22,651.0	4,530.24	—	—	—
Apartments Mid Rise	47.0000	Dwelling Unit	1.56000	45,120.0	28,830.7	—	152.000	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.3. 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.	128.035	110.435	59.2459	572.761	1.36386	17.6969	78.3252	96.0221	17.0502	19.9188	36.9690	3,717.56	119,068	122,786	126.497	5.15501	343.824	127,828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	114.169	97.0187	64.9406	466.937	1.29503	17.6131	78.3252	95.9383	16.9870	19.9188	36.9058	3,717.56	112,231	115,949	127.081	5.50770	87.2999	120,854

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Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	88.6762	81.8418	49.0550	341.103	0.84662	5.09715	62.6758	67.7729	4.92119	15.9406	20.8618	1,665.51	92,829.8	94,495.4	116.294	4.44915	171.990	98,900.6
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.1834	14.9361	8.95253	62.2513	0.15451	0.93023	11.4383	12.3686	0.89812	2.90916	3.80728	275.745	15,369.0	15,644.8	19.2539	0.73661	28.4749	16,374.1

2.4. 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	57.9235	54.2618	41.2729	384.366	0.90581	0.70897	78.3252	79.0342	0.66560	19.9188	20.5844	—	92,416.3	92,416.3	3.82868	4.28591	263.353	94,052.6
Area	68.8269	55.5307	6.43270	179.571	0.38800	16.1007	—	16.1007	15.4973	—	15.4973	2,646.63	5,366.52	8,013.15	12.4790	0.01169	—	8,328.61
Energy	1.28416	0.64208	11.5403	8.82445	0.07005	0.88724	—	0.88724	0.88724	—	0.88724	—	20,996.3	20,996.3	2.37602	0.16481	—	21,104.8
Water	—	—	—	—	—	—	—	—	—	—	—	281.959	289.132	571.091	28.9585	0.69260	—	1,501.45
Waste	—	—	—	—	—	—	—	—	—	—	—	788.969	0.00000	788.969	78.8546	0.00000	—	2,760.33
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.4714	80.4714
Total	128.035	110.435	59.2459	572.761	1.36386	17.6969	78.3252	96.0221	17.0502	19.9188	36.9690	3,717.56	119,068	122,786	126.497	5.15501	343.824	127,828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	53.7662	49.8665	47.5680	346.476	0.84058	0.70958	78.3252	79.0348	0.66619	19.9188	20.5850	—	85,818.7	85,818.7	4.42331	4.64063	6.82850	87,319.0
Area	59.1189	46.5101	5.83235	111.636	0.38440	16.0163	—	16.0163	15.4335	—	15.4335	2,646.63	5,127.11	7,773.74	12.4690	0.00965	—	8,088.34
Energy	1.28416	0.64208	11.5403	8.82445	0.07005	0.88724	—	0.88724	0.88724	—	0.88724	—	20,996.3	20,996.3	2.37602	0.16481	—	21,104.8
Water	—	—	—	—	—	—	—	—	—	—	—	281.959	289.132	571.091	28.9585	0.69260	—	1,501.45
Waste	—	—	—	—	—	—	—	—	—	—	—	788.969	0.00000	788.969	78.8546	0.00000	—	2,760.33
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.4714	80.4714
Total	114.169	97.0187	64.9406	466.937	1.29503	17.6131	78.3252	95.9383	16.9870	19.9188	36.9058	3,717.56	112,231	115,949	127.081	5.50770	87.2999	120,854

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	42.8294	39.8087	35.9083	273.697	0.68844	0.57009	62.6758	63.2458	0.53523	15.9406	16.4758	—	70,274.5	70,274.5	3.29919	3.58857	91.5183	71,517.9
Area	44.5627	41.3910	1.60635	58.5817	0.08813	3.63982	—	3.63982	3.49872	—	3.49872	594.586	1,269.91	1,864.50	2.80620	0.00317	—	1,935.60
Energy	1.28416	0.64208	11.5403	8.82445	0.07005	0.88724	—	0.88724	0.88724	—	0.88724	—	20,996.3	20,996.3	2.37602	0.16481	—	21,104.8
Water	—	—	—	—	—	—	—	—	—	—	—	281.959	289.132	571.091	28.9585	0.69260	—	1,501.45
Waste	—	—	—	—	—	—	—	—	—	—	—	788.969	0.00000	788.969	78.8546	0.00000	—	2,760.33
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.4714	80.4714
Total	88.6762	81.8418	49.0550	341.103	0.84662	5.09715	62.6758	67.7729	4.92119	15.9406	20.8618	1,665.51	92,829.8	94,495.4	116.294	4.44915	171.990	98,900.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.81636	7.26509	6.55327	49.9496	0.12564	0.10404	11.4383	11.5424	0.09768	2.90916	3.00684	—	11,634.8	11,634.8	0.54622	0.59413	15.1519	11,840.6
Area	8.13269	7.55385	0.29316	10.6912	0.01608	0.66427	—	0.66427	0.63852	—	0.63852	98.4404	210.248	308.689	0.46460	0.00053	—	320.460
Energy	0.23436	0.11718	2.10610	1.61046	0.01278	0.16192	—	0.16192	0.16192	—	0.16192	—	3,476.17	3,476.17	0.39338	0.02729	—	3,494.14
Water	—	—	—	—	—	—	—	—	—	—	—	46.6816	47.8691	94.5507	4.79440	0.11467	—	248.582
Waste	—	—	—	—	—	—	—	—	—	—	—	130.623	0.00000	130.623	13.0553	0.00000	—	457.005
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.3230	13.3230
Total	16.1834	14.9361	8.95253	62.2513	0.15451	0.93023	11.4383	12.3686	0.89812	2.90916	3.80728	275.745	15,369.0	15,644.8	19.2539	0.73661	28.4749	16,374.1

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Single Family Housing	3.86420	3.58567	3.09143	29.5000	0.07243	0.05598	6.30599	6.36197	0.05257	1.60367	1.65624	—	7,389.84	7,389.84	0.27453	0.32647	21.2026	7,515.19
Apartments Mid Rise	8.11475	7.52985	6.49195	61.9496	0.15211	0.11755	13.2425	13.3600	0.11040	3.36769	3.47809	—	15,518.5	15,518.5	0.57651	0.68557	44.5252	15,781.8
High School	18.9211	17.7687	13.0505	120.630	0.28056	0.22051	24.2057	24.4262	0.20700	6.15574	6.36274	—	28,625.1	28,625.1	1.22626	1.34826	81.3868	29,138.9
Office Park	3.51390	3.29989	2.42366	22.4026	0.05210	0.04095	4.49533	4.53628	0.03844	1.14320	1.18165	—	5,316.07	5,316.07	0.22773	0.25039	15.1146	5,411.49
Manufacturing	6.65563	6.25028	4.59062	42.4325	0.09869	0.07757	8.51453	8.59210	0.07281	2.16533	2.23814	—	10,069.1	10,069.1	0.43135	0.47426	28.6284	10,249.8
Government Office Building	13.2034	12.3993	9.10688	84.1775	0.19578	0.15387	16.8911	17.0450	0.14445	4.29557	4.44002	—	19,975.0	19,975.0	0.85571	0.94084	56.7930	20,333.6
Strip Mall	3.65046	3.42813	2.51785	23.2732	0.05413	0.04254	4.67002	4.71257	0.03994	1.18763	1.22757	—	5,522.66	5,522.66	0.23658	0.26012	15.7020	5,621.79
Total	57.9235	54.2618	41.2729	384.366	0.90581	0.70897	78.3252	79.0342	0.66560	19.9188	20.5844	—	92,416.3	92,416.3	3.82868	4.28591	263.353	94,052.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.60099	3.30885	3.56509	25.7876	0.06717	0.05601	6.30599	6.36201	0.05261	1.60367	1.65628	—	6,857.17	6,857.17	0.31113	0.35287	0.54977	6,970.65
Apartments Mid Rise	7.56203	6.94853	7.48663	54.1535	0.14105	0.11763	13.2425	13.3601	0.11048	3.36769	3.47816	—	14,400.0	14,400.0	0.65336	0.74101	1.15450	14,638.3
High School	17.5451	16.3120	15.0383	109.766	0.26042	0.22071	24.2057	24.4264	0.20719	6.15574	6.36293	—	26,588.0	26,588.0	1.42443	1.46064	2.11029	27,061.0
Office Park	3.25836	3.02936	2.79282	20.3849	0.04836	0.04099	4.49533	4.53632	0.03848	1.14320	1.18168	—	4,937.76	4,937.76	0.26454	0.27126	0.39191	5,025.60
Manufacturing	6.17160	5.73787	5.28984	38.6108	0.09160	0.07764	8.51453	8.59217	0.07288	2.16533	2.23821	—	9,352.53	9,352.53	0.50105	0.51379	0.74231	9,518.91

Government Office Building	12.2432	11.3828	10.4940	76.5961	0.18172	0.15402	16.8911	17.0451	0.14458	4.29557	4.44015	—	18,553.6	18,553.6	0.99399	1.01926	1.47259	18,883.6
Strip Mall	3.38498	3.14709	2.90135	21.1771	0.05024	0.04258	4.67002	4.71261	0.03997	1.18763	1.22760	—	5,129.65	5,129.65	0.27482	0.28180	0.40714	5,220.90
Total	53.7662	49.8665	47.5680	346.476	0.84058	0.70958	78.3252	79.0348	0.66619	19.9188	20.5850	—	85,818.7	85,818.7	4.42331	4.64063	6.82850	87,319.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.64265	0.59193	0.59973	4.59059	0.01220	0.00999	1.11871	1.12870	0.00938	0.28453	0.29391	—	1,130.14	1,130.14	0.04741	0.05515	1.48192	1,149.24
Apartments Mid Rise	1.31220	1.20865	1.22457	9.37338	0.02492	0.02040	2.28426	2.30466	0.01916	0.58097	0.60012	—	2,307.60	2,307.60	0.09681	0.11260	3.02587	2,346.60
High School	2.47365	2.30611	1.99569	15.1865	0.03735	0.03108	3.39104	3.42212	0.02918	0.86246	0.89164	—	3,459.26	3,459.26	0.16965	0.17994	4.49198	3,521.61
Office Park	0.44344	0.41341	0.35776	2.72243	0.00670	0.00557	0.60790	0.61347	0.00523	0.15461	0.15984	—	620.130	620.130	0.03041	0.03226	0.80526	631.309
Manufacturing	0.78144	0.72851	0.63045	4.79750	0.01180	0.00982	1.07125	1.08107	0.00922	0.27246	0.28167	—	1,092.80	1,092.80	0.05359	0.05684	1.41904	1,112.50
Government Office Building	1.59698	1.48882	1.28842	9.80438	0.02412	0.02007	2.18925	2.20932	0.01884	0.55680	0.57564	—	2,233.29	2,233.29	0.10952	0.11617	2.90002	2,273.55
Strip Mall	0.56600	0.52767	0.45664	3.47485	0.00855	0.00711	0.77591	0.78302	0.00668	0.19734	0.20402	—	791.520	791.520	0.03882	0.04117	1.02782	805.788
Total	7.81636	7.26509	6.55327	49.9496	0.12564	0.10404	11.4383	11.5424	0.09768	2.90916	3.00684	—	11,634.8	11,634.8	0.54622	0.59413	15.1519	11,840.6

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

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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	495.524	495.524	0.08017	0.00972	—	500.424
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	967.003	967.003	0.15644	0.01896	—	976.565
High School	—	—	—	—	—	—	—	—	—	—	—	—	947.250	947.250	0.15324	0.01858	—	956.616
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	1,021.05	1,021.05	0.16518	0.02002	—	1,031.14
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	1,645.88	1,645.88	0.26627	0.03227	—	1,662.15
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,880.05	1,880.05	0.30415	0.03687	—	1,898.64
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	110.283	110.283	0.01784	0.00216	—	111.374
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,067.03	7,067.03	1.14329	0.13858	—	7,136.91
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	495.524	495.524	0.08017	0.00972	—	500.424
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	967.003	967.003	0.15644	0.01896	—	976.565
High School	—	—	—	—	—	—	—	—	—	—	—	—	947.250	947.250	0.15324	0.01858	—	956.616
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	1,021.05	1,021.05	0.16518	0.02002	—	1,031.14
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	1,645.88	1,645.88	0.26627	0.03227	—	1,662.15

Govern Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,880.05	1,880.05	0.30415	0.03687	—	1,898.64
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	110.283	110.283	0.01784	0.00216	—	111.374
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,067.03	7,067.03	1.14329	0.13858	—	7,136.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	82.0397	82.0397	0.01327	0.00161	—	82.8509
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	160.098	160.098	0.02590	0.00314	—	161.681
High School	—	—	—	—	—	—	—	—	—	—	—	—	156.828	156.828	0.02537	0.00308	—	158.379
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	169.046	169.046	0.02735	0.00331	—	170.718
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	272.493	272.493	0.04408	0.00534	—	275.188
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	311.264	311.264	0.05036	0.00610	—	314.342
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	18.2587	18.2587	0.00295	0.00036	—	18.4392
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,170.03	1,170.03	0.18929	0.02294	—	1,181.60

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Single Family Housing	0.08939	0.04469	0.76386	0.32505	0.00488	0.06176	—	0.06176	0.06176	—	0.06176	—	969.584	969.584	0.08581	0.00183	—	972.274
Apartments Mid Rise	0.15608	0.07804	1.33376	0.56756	0.00851	0.10784	—	0.10784	0.10784	—	0.10784	—	1,692.97	1,692.97	0.14983	0.00319	—	1,697.67
High School	0.47213	0.23606	4.29208	3.60535	0.02575	0.32620	—	0.32620	0.32620	—	0.32620	—	5,121.17	5,121.17	0.45322	0.00964	—	5,135.38
Office Park	0.07446	0.03723	0.67691	0.56860	0.00406	0.05144	—	0.05144	0.05144	—	0.05144	—	807.662	807.662	0.07148	0.00152	—	809.902
Manufacturing	0.34923	0.17462	3.17482	2.66685	0.01905	0.24129	—	0.24129	0.24129	—	0.24129	—	3,788.09	3,788.09	0.33524	0.00713	—	3,798.59
Government Office Building	0.13710	0.06855	1.24638	1.04696	0.00748	0.09473	—	0.09473	0.09473	—	0.09473	—	1,487.15	1,487.15	0.13161	0.00280	—	1,491.27
Strip Mall	0.00577	0.00289	0.05248	0.04408	0.00031	0.00399	—	0.00399	0.00399	—	0.00399	—	62.6159	62.6159	0.00554	0.00012	—	62.7896
Total	1.28416	0.64208	11.5403	8.82445	0.07005	0.88724	—	0.88724	0.88724	—	0.88724	—	13,929.2	13,929.2	1.23273	0.02623	—	13,967.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.08939	0.04469	0.76386	0.32505	0.00488	0.06176	—	0.06176	0.06176	—	0.06176	—	969.584	969.584	0.08581	0.00183	—	972.274
Apartments Mid Rise	0.15608	0.07804	1.33376	0.56756	0.00851	0.10784	—	0.10784	0.10784	—	0.10784	—	1,692.97	1,692.97	0.14983	0.00319	—	1,697.67
High School	0.47213	0.23606	4.29208	3.60535	0.02575	0.32620	—	0.32620	0.32620	—	0.32620	—	5,121.17	5,121.17	0.45322	0.00964	—	5,135.38
Office Park	0.07446	0.03723	0.67691	0.56860	0.00406	0.05144	—	0.05144	0.05144	—	0.05144	—	807.662	807.662	0.07148	0.00152	—	809.902
Manufacturing	0.34923	0.17462	3.17482	2.66685	0.01905	0.24129	—	0.24129	0.24129	—	0.24129	—	3,788.09	3,788.09	0.33524	0.00713	—	3,798.59

Government Office Building	0.13710	0.06855	1.24638	1.04696	0.00748	0.09473	—	0.09473	0.09473	—	0.09473	—	1,487.15	1,487.15	0.13161	0.00280	—	1,491.27
Strip Mall	0.00577	0.00289	0.05248	0.04408	0.00031	0.00399	—	0.00399	0.00399	—	0.00399	—	62.6159	62.6159	0.00554	0.00012	—	62.7896
Total	1.28416	0.64208	11.5403	8.82445	0.07005	0.88724	—	0.88724	0.88724	—	0.88724	—	13,929.2	13,929.2	1.23273	0.02623	—	13,967.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.01631	0.00816	0.13940	0.05932	0.00089	0.01127	—	0.01127	0.01127	—	0.01127	—	160.526	160.526	0.01421	0.00030	—	160.971
Apartments Mid Rise	0.02848	0.01424	0.24341	0.10358	0.00155	0.01968	—	0.01968	0.01968	—	0.01968	—	280.291	280.291	0.02481	0.00053	—	281.068
High School	0.08616	0.04308	0.78331	0.65798	0.00470	0.05953	—	0.05953	0.05953	—	0.05953	—	847.868	847.868	0.07504	0.00160	—	850.220
Office Park	0.01359	0.00679	0.12354	0.10377	0.00074	0.00939	—	0.00939	0.00939	—	0.00939	—	133.718	133.718	0.01183	0.00025	—	134.089
Manufacturing	0.06373	0.03187	0.57940	0.48670	0.00348	0.04403	—	0.04403	0.04403	—	0.04403	—	627.161	627.161	0.05550	0.00118	—	628.901
Government Office Building	0.02502	0.01251	0.22747	0.19107	0.00136	0.01729	—	0.01729	0.01729	—	0.01729	—	246.214	246.214	0.02179	0.00046	—	246.897
Strip Mall	0.00105	0.00053	0.00958	0.00804	0.00006	0.00073	—	0.00073	0.00073	—	0.00073	—	10.3668	10.3668	0.00092	0.00002	—	10.3955
Total	0.23436	0.11718	2.10610	1.61046	0.01278	0.16192	—	0.16192	0.16192	—	0.16192	—	2,306.14	2,306.14	0.20409	0.00434	—	2,312.54

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

ATTACHMENT 5

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	24.9486	12.3398	5.83235	111.636	0.38440	16.0163	—	16.0163	15.4335	—	15.4335	2,646.63	5,127.11	7,773.74	12.4690	0.00965	—	8,088.34
Consumer Products	32.0162	32.0162	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.15399	2.15399	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.70807	9.02060	0.60036	67.9341	0.00360	0.08444	—	0.08444	0.06380	—	0.06380	—	239.413	239.413	0.01003	0.00203	—	240.270
Total	68.8269	55.5307	6.43270	179.571	0.38800	16.1007	—	16.1007	15.4973	—	15.4973	2,646.63	5,366.52	8,013.15	12.4790	0.01169	—	8,328.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	24.9486	12.3398	5.83235	111.636	0.38440	16.0163	—	16.0163	15.4335	—	15.4335	2,646.63	5,127.11	7,773.74	12.4690	0.00965	—	8,088.34
Consumer Products	32.0162	32.0162	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.15399	2.15399	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	59.1189	46.5101	5.83235	111.636	0.38440	16.0163	—	16.0163	15.4335	—	15.4335	2,646.63	5,127.11	7,773.74	12.4690	0.00965	—	8,088.34
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.02289	0.50593	0.23913	4.57710	0.01576	0.65667	—	0.65667	0.63277	—	0.63277	98.4404	190.701	289.141	0.46378	0.00036	—	300.843
Consumer Products	5.84296	5.84296	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.39310	0.39310	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.87373	0.81185	0.05403	6.11407	0.00032	0.00760	—	0.00760	0.00574	—	0.00574	—	19.5473	19.5473	0.00082	0.00017	—	19.6173
Total	8.13269	7.55385	0.29316	10.6912	0.01608	0.66427	—	0.66427	0.63852	—	0.63852	98.4404	210.248	308.689	0.46460	0.00053	—	320.460

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.10582	9.22211	17.3279	0.83265	0.01993	—	44.0830
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	29.8512	34.2463	64.0975	3.06644	0.07340	—	162.631
High School	—	—	—	—	—	—	—	—	—	—	—	23.5312	33.5947	57.1258	2.41829	0.05799	—	134.863
Office Park	—	—	—	—	—	—	—	—	—	—	—	29.7306	28.6647	58.3953	3.05317	0.07299	—	156.477
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	126.336	121.230	247.567	12.9740	0.31017	—	664.346
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	61.1889	59.0552	120.244	6.28378	0.15023	—	322.108
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3.21512	3.11873	6.33385	0.33018	0.00789	—	16.9408

ATTACHMENT 5

Total	—	—	—	—	—	—	—	—	—	—	—	281.959	289.132	571.091	28.9585	0.69260	—	1,501.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.10582	9.22211	17.3279	0.83265	0.01993	—	44.0830
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	29.8512	34.2463	64.0975	3.06644	0.07340	—	162.631
High School	—	—	—	—	—	—	—	—	—	—	—	23.5312	33.5947	57.1258	2.41829	0.05799	—	134.863
Office Park	—	—	—	—	—	—	—	—	—	—	—	29.7306	28.6647	58.3953	3.05317	0.07299	—	156.477
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	126.336	121.230	247.567	12.9740	0.31017	—	664.346
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	61.1889	59.0552	120.244	6.28378	0.15023	—	322.108
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3.21512	3.11873	6.33385	0.33018	0.00789	—	16.9408
Total	—	—	—	—	—	—	—	—	—	—	—	281.959	289.132	571.091	28.9585	0.69260	—	1,501.45
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.34201	1.52683	2.86884	0.13785	0.00330	—	7.29844
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.94221	5.66986	10.6121	0.50768	0.01215	—	26.9254
High School	—	—	—	—	—	—	—	—	—	—	—	3.89585	5.56198	9.45783	0.40037	0.00960	—	22.3281
Office Park	—	—	—	—	—	—	—	—	—	—	—	4.92225	4.74576	9.66801	0.50549	0.01209	—	25.9066
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	20.9164	20.0711	40.9875	2.14799	0.05135	—	109.990

Govern Office Building	—	—	—	—	—	—	—	—	—	—	—	10.1305	9.77726	19.9078	1.04035	0.02487	—	53.3286
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.53230	0.51634	1.04864	0.05466	0.00131	—	2.80474
Total	—	—	—	—	—	—	—	—	—	—	—	46.6816	47.8691	94.5507	4.79440	0.11467	—	248.582

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	49.5735	0.00000	49.5735	4.95469	0.00000	—	173.441
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	152.626	0.00000	152.626	15.2545	0.00000	—	533.988
High School	—	—	—	—	—	—	—	—	—	—	—	259.107	0.00000	259.107	25.8968	0.00000	—	906.526
Office Park	—	—	—	—	—	—	—	—	—	—	—	43.7530	0.00000	43.7530	4.37296	0.00000	—	153.077
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	190.528	0.00000	190.528	19.0426	0.00000	—	666.592
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	80.5632	0.00000	80.5632	8.05200	0.00000	—	281.863
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	12.8180	0.00000	12.8180	1.28111	0.00000	—	44.8458
Total	—	—	—	—	—	—	—	—	—	—	—	788.969	0.00000	788.969	78.8546	0.00000	—	2,760.33

ATTACHMENT 5

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	49.5735	0.00000	49.5735	4.95469	0.00000	—	173.441
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	152.626	0.00000	152.626	15.2545	0.00000	—	533.988
High School	—	—	—	—	—	—	—	—	—	—	—	259.107	0.00000	259.107	25.8968	0.00000	—	906.526
Office Park	—	—	—	—	—	—	—	—	—	—	—	43.7530	0.00000	43.7530	4.37296	0.00000	—	153.077
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	190.528	0.00000	190.528	19.0426	0.00000	—	666.592
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	80.5632	0.00000	80.5632	8.05200	0.00000	—	281.863
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	12.8180	0.00000	12.8180	1.28111	0.00000	—	44.8458
Total	—	—	—	—	—	—	—	—	—	—	—	788.969	0.00000	788.969	78.8546	0.00000	—	2,760.33
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.20746	0.00000	8.20746	0.82031	0.00000	—	28.7151
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	25.2690	0.00000	25.2690	2.52555	0.00000	—	88.4078
High School	—	—	—	—	—	—	—	—	—	—	—	42.8980	0.00000	42.8980	4.28751	0.00000	—	150.086
Office Park	—	—	—	—	—	—	—	—	—	—	—	7.24381	0.00000	7.24381	0.72399	0.00000	—	25.3436
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	31.5441	0.00000	31.5441	3.15272	0.00000	—	110.362

Government	—	—	—	—	—	—	—	—	—	—	—	13.3382	0.00000	13.3382	1.33310	0.00000	—	46.6657
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.12216	0.00000	2.12216	0.21210	0.00000	—	7.42473
Total	—	—	—	—	—	—	—	—	—	—	—	130.623	0.00000	130.623	13.0553	0.00000	—	457.005

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45245	1.45245
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.63333	2.63333
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.42857	1.42857
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21230	0.21230
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	74.2128	74.2128
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39091	0.39091
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14108	0.14108
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.4714	80.4714

ATTACHMENT 5

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45245	1.45245
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.63333	2.63333
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.42857	1.42857
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21230	0.21230
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	74.2128	74.2128
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39091	0.39091
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14108	0.14108
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.4714	80.4714
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24047	0.24047
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.43598	0.43598
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23652	0.23652
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03515	0.03515
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.2868	12.2868

Government	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06472	0.06472
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02336	0.02336
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.3230	13.3230

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.9. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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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

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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

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	179.360	181.260	162.450	64,683.7	1,601.02	1,617.98	1,450.07	577,385
Apartments Mid Rise	1,827.84	1,649.76	1,374.24	634,224	16,315.8	14,726.2	12,266.9	5,661,262
High School	5,203.43	1,471.90	632.400	1,466,333	33,995.1	9,616.25	4,131.61	9,579,870
Office Park	512.106	75.8676	35.1581	139,303	3,345.70	495.659	229.696	910,094
Office Park	454.241	67.2950	31.1855	123,562	2,967.66	439.653	203.742	807,259
Manufacturing	1,120.44	1,830.34	1,451.16	463,223	7,320.10	11,958.0	9,480.75	3,026,335
Single Family Housing	802.400	810.900	726.750	289,375	7,162.45	7,238.32	6,487.18	2,583,039
Government Office Building	3,631.04	0.00000	0.00000	946,663	23,722.3	0.00000	0.00000	6,184,754
Strip Mall	1,003.90	952.256	462.764	335,515	6,558.71	6,221.30	3,023.34	2,191,990
Apartments Mid Rise	255.680	230.770	192.230	88,715.9	2,282.27	2,059.92	1,715.90	791,903

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Single Family Housing	Wood Fireplaces	0	0

Single Family Housing	Gas Fireplaces	10	10
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	10	10
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	1	1
Single Family Housing	Non-Catalytic Wood Stoves	1	1
Single Family Housing	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	168	168
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	168	168
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	17	17
Apartments Mid Rise	Non-Catalytic Wood Stoves	17	17
Apartments Mid Rise	Pellet Wood Stoves	0	0
High School	Wood Fireplaces	0	0
High School	Gas Fireplaces	0	0
High School	Propane Fireplaces	0	0
High School	Electric Fireplaces	0	0
High School	No Fireplaces	0	0
High School	Conventional Wood Stoves	0	0
High School	Catalytic Wood Stoves	0	0
High School	Non-Catalytic Wood Stoves	0	0
High School	Pellet Wood Stoves	0	0
Office Park	Wood Fireplaces	0	0
Office Park	Gas Fireplaces	0	0

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Office Park	Propane Fireplaces	0	0
Office Park	Electric Fireplaces	0	0
Office Park	No Fireplaces	0	0
Office Park	Conventional Wood Stoves	0	0
Office Park	Catalytic Wood Stoves	0	0
Office Park	Non-Catalytic Wood Stoves	0	0
Office Park	Pellet Wood Stoves	0	0
Office Park	Wood Fireplaces	0	0
Office Park	Gas Fireplaces	0	0
Office Park	Propane Fireplaces	0	0
Office Park	Electric Fireplaces	0	0
Office Park	No Fireplaces	0	0
Office Park	Conventional Wood Stoves	0	0
Office Park	Catalytic Wood Stoves	0	0
Office Park	Non-Catalytic Wood Stoves	0	0
Office Park	Pellet Wood Stoves	0	0
Manufacturing	Wood Fireplaces	0	0
Manufacturing	Gas Fireplaces	0	0
Manufacturing	Propane Fireplaces	0	0
Manufacturing	Electric Fireplaces	0	0
Manufacturing	No Fireplaces	0	0
Manufacturing	Conventional Wood Stoves	0	0
Manufacturing	Catalytic Wood Stoves	0	0
Manufacturing	Non-Catalytic Wood Stoves	0	0
Manufacturing	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	43	43
Single Family Housing	Propane Fireplaces	0	0

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Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	43	43
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	4	4
Single Family Housing	Non-Catalytic Wood Stoves	4	4
Single Family Housing	Pellet Wood Stoves	0	0
Government Office Building	Wood Fireplaces	0	0
Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0
Government Office Building	Electric Fireplaces	0	0
Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	24	24
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0

Apartments Mid Rise	No Fireplaces	24	24
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	2	2
Apartments Mid Rise	Non-Catalytic Wood Stoves	2	2
Apartments Mid Rise	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1,155,222	385,074	1,388,409	462,803	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	161,988	203.983	0.0330	0.0040	552,710
Apartments Mid Rise	1,517,984	203.983	0.0330	0.0040	4,634,277
High School	1,694,976	203.983	0.0330	0.0040	15,979,425
Office Park	968,212	203.983	0.0330	0.0040	1,335,510
Office Park	858,814	203.983	0.0330	0.0040	1,184,611
Manufacturing	2,945,071	203.983	0.0330	0.0040	11,819,849
Single Family Housing	724,685	203.983	0.0330	0.0040	2,472,652

Government Office Building	3,364,098	203.983	0.0330	0.0040	4,640,291
Strip Mall	197,337	203.983	0.0330	0.0040	195,378
Apartments Mid Rise	212,337	203.983	0.0330	0.0040	648,247

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	772,802	1,202,708
Apartments Mid Rise	13,666,388	5,533,574
High School	12,279,886	11,535,279
Office Park	8,222,091	216,439
Office Park	7,293,041	191,983
Manufacturing	65,929,421	1,143,338
Single Family Housing	3,457,271	354,886
Government Office Building	31,931,843	902,442
Strip Mall	1,677,831	63,586.7
Apartments Mid Rise	1,911,667	494,595

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	16.6994	0.00000
Apartments Mid Rise	248.399	0.00000
High School	480.772	0.00000
Office Park	43.0225	0.00000
Office Park	38.1612	0.00000

Manufacturing	353.524	0.00000
Single Family Housing	75.2841	0.00000
Government Office Building	149.485	0.00000
Strip Mall	23.7838	0.00000
Apartments Mid Rise	34.7988	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
High School	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
High School	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
High School	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000

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Office Park	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Office Park	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Office Park	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Office Park	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088.00	0.30000	4.00000	4.00000	18.0000
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Lot acreage adjusted to represent overall acreage of the project site.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	6.16883	2.46000
Landscape Area	sq. ft	222,544	70,107.6
Lot Area	acre	8.84211	11.2200
Landscape Area	sq. ft	—	322,560
Lot Area	acre	8.49000	16.9800
Landscape Area	sq. ft	—	369,824
Lot Area	acre	1.06200	1.77000
Landscape Area	sq. ft	—	15,420.2
Lot Area	acre	0.94200	1.57000
Landscape Area	sq. ft	—	13,677.8
Lot Area	acre	6.54500	9.35000
Landscape Area	sq. ft	—	81,457.2
Lot Area	acre	27.5974	4.28000
Landscape Area	sq. ft	995,593	20,686.8
Lot Area	acre	3.69000	7.38000
Landscape Area	sq. ft	—	64,294.6
Lot Area	acre	0.52000	0.52000
Landscape Area	sq. ft	—	4,530.24
Lot Area	acre	1.23684	1.56000
Landscape Area	sq. ft	—	28,830.7

ATTACHMENT 5

Cumulative GPA - Proposed Custom Report

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ATTACHMENT 5

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cumulative GPA - Proposed
Operational Year	2028
Lead Agency	City of Manteca
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40000
Precipitation (days)	9.00000
Location	37.79663390121186, -121.24409635563963
County	San Joaquin
City	Manteca
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2166
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.39

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
Office Park	26.1360	1000sqft	1.000000	26,136.0	8,712.00	—	23.0000	—
Single Family Housing	11.0000	Dwelling Unit	1.46000	21,450.0	42,147.6	—	36.0000	—

Apartments Mid Rise	306.000	Dwelling Unit	10.2200	293,760	188,878	—	988.000	—
High School	348.044	1000sqft	15.9800	348,044	348,044	348,044	—	—
Office Park	16.4657	1000sqft	0.63000	16,466.0	5,488.56	—	—	—
Government Office Building	24.8292	1000sqft	1.14000	24,829.0	9,931.68	—	—	—
Office Park	33.9760	1000sqft	1.30000	33,976.0	11,325.6	—	—	—
Single Family Housing	5.00000	Dwelling Unit	0.27000	9,750.00	2,011.20	—	16.0000	—
Strip Mall	251.341	1000sqft	5.77000	251,341	50,268.2	—	—	—
Apartments Mid Rise	519.000	Dwelling Unit	17.3100	498,240	319,910	—	1,676.00	—
Government Office Building	43.5600	1000sqft	2.00000	43,560.0	43,560.0	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.3. 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.	175.209	146.882	80.2131	844.271	2.05385	29.4596	115.225	144.684	28.3699	29.3027	57.6727	5,541.05	161,871	167,412	126.571	6.88936	396.578	173,026
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	158.951	130.952	88.7445	708.258	1.95389	29.3807	115.225	144.605	28.3105	29.3027	57.6132	5,541.05	151,904	157,445	127.434	7.40865	19.2036	162,858

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	120.625	110.052	69.0941	528.980	1.30982	7.84698	100.593	108.440	7.55528	25.5842	33.1395	1,997.38	131,738	133,736	109.556	6.34114	156.043	138,520
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.0140	20.0844	12.6097	96.5388	0.23904	1.43207	18.3582	19.7903	1.37884	4.66912	6.04796	330.689	21,810.8	22,141.5	18.1382	1.04985	25.8346	22,933.6

2.4. 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	85.0871	79.7030	60.6808	565.218	1.33246	1.04280	115.225	116.268	0.97902	29.3027	30.2818	—	135,946	135,946	5.62714	6.30214	387.420	138,353
Area	89.1400	66.6885	10.7961	272.955	0.66783	27.7384	—	27.7384	26.7125	—	26.7125	4,570.46	9,114.69	13,685.2	21.5436	0.01887	—	14,229.4
Energy	0.98198	0.49099	8.73622	6.09897	0.05356	0.67846	—	0.67846	0.67846	—	0.67846	—	16,621.5	16,621.5	1.90847	0.13713	—	16,710.1
Water	—	—	—	—	—	—	—	—	—	—	—	175.484	188.401	363.885	18.0243	0.43122	—	942.998
Waste	—	—	—	—	—	—	—	—	—	—	—	795.105	0.00000	795.105	79.4678	0.00000	—	2,781.80
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.15817	9.15817
Total	175.209	146.882	80.2131	844.271	2.05385	29.4596	115.225	144.684	28.3699	29.3027	57.6727	5,541.05	161,871	167,412	126.571	6.88936	396.578	173,026
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	78.9825	73.2490	69.9364	509.374	1.23650	1.04369	115.225	116.268	0.97987	29.3027	30.2826	—	126,240	126,240	6.50015	6.82363	10.0455	128,446
Area	78.9865	57.2124	10.0719	192.785	0.66383	27.6585	—	27.6585	26.6522	—	26.6522	4,570.46	8,854.00	13,424.5	21.5327	0.01667	—	13,967.8
Energy	0.98198	0.49099	8.73622	6.09897	0.05356	0.67846	—	0.67846	0.67846	—	0.67846	—	16,621.5	16,621.5	1.90847	0.13713	—	16,710.1
Water	—	—	—	—	—	—	—	—	—	—	—	175.484	188.401	363.885	18.0243	0.43122	—	942.998
Waste	—	—	—	—	—	—	—	—	—	—	—	795.105	0.00000	795.105	79.4678	0.00000	—	2,781.80
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.15817	9.15817
Total	158.951	130.952	88.7445	708.258	1.95389	29.3807	115.225	144.605	28.3105	29.3027	57.6132	5,541.05	151,904	157,445	127.434	7.40865	19.2036	162,858

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	69.0536	64.1973	57.7380	440.034	1.10515	0.91545	100.593	101.508	0.85947	25.5842	26.4437	—	112,811	112,811	5.31216	5.76796	146.884	114,809
Area	50.5890	45.3633	2.61987	82.8465	0.15111	6.25307	—	6.25307	6.01735	—	6.01735	1,026.79	2,117.68	3,144.47	4.84287	0.00483	—	3,266.98
Energy	0.98198	0.49099	8.73622	6.09897	0.05356	0.67846	—	0.67846	0.67846	—	0.67846	—	16,621.5	16,621.5	1.90847	0.13713	—	16,710.1
Water	—	—	—	—	—	—	—	—	—	—	—	175.484	188.401	363.885	18.0243	0.43122	—	942.998
Waste	—	—	—	—	—	—	—	—	—	—	—	795.105	0.00000	795.105	79.4678	0.00000	—	2,781.80
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.15817	9.15817
Total	120.625	110.052	69.0941	528.980	1.30982	7.84698	100.593	108.440	7.55528	25.5842	33.1395	1,997.38	131,738	133,736	109.556	6.34114	156.043	138,520
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.6023	11.7160	10.5372	80.3063	0.20169	0.16707	18.3582	18.5253	0.15685	4.66912	4.82598	—	18,677.1	18,677.1	0.87949	0.95495	24.3184	19,008.0
Area	9.23250	8.27880	0.47813	15.1195	0.02758	1.14119	—	1.14119	1.09817	—	1.09817	169.997	350.606	520.603	0.80179	0.00080	—	540.886
Energy	0.17921	0.08961	1.59436	1.11306	0.00978	0.12382	—	0.12382	0.12382	—	0.12382	—	2,751.89	2,751.89	0.31597	0.02270	—	2,766.55
Water	—	—	—	—	—	—	—	—	—	—	—	29.0534	31.1919	60.2453	2.98414	0.07139	—	156.124
Waste	—	—	—	—	—	—	—	—	—	—	—	131.639	0.00000	131.639	13.1568	0.00000	—	460.559
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.51624	1.51624
Total	22.0140	20.0844	12.6097	96.5388	0.23904	1.43207	18.3582	19.7903	1.37884	4.66912	6.04796	330.689	21,810.8	22,141.5	18.1382	1.04985	25.8346	22,933.6

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ATTACHMENT 5

Office Park	3.08252	2.89479	2.12612	19.6524	0.04571	0.03592	3.94347	3.97939	0.03372	1.00286	1.03658	—	4,663.45	4,663.45	0.19978	0.21965	13.2591	4,747.16
Single Family Housing	0.59449	0.55164	0.47560	4.53847	0.01114	0.00861	0.97015	0.97876	0.00809	0.24672	0.25481	—	1,136.90	1,136.90	0.04224	0.05023	3.26194	1,156.18
Apartments Mid Rise	17.4796	16.2196	13.9840	133.442	0.32766	0.25321	28.5249	28.7781	0.23780	7.25416	7.49196	—	33,427.7	33,427.7	1.24183	1.47676	95.9093	33,994.7
High School	17.8068	16.7223	12.2820	113.526	0.26404	0.20752	22.7802	22.9877	0.19481	5.79321	5.98802	—	26,939.3	26,939.3	1.15404	1.26886	76.5937	27,422.9
Government Office Building	5.61772	5.27558	3.87474	35.8154	0.08330	0.06547	7.18674	7.25221	0.06146	1.82766	1.88911	—	8,498.87	8,498.87	0.36408	0.40030	24.1640	8,651.42
Strip Mall	40.5060	38.0391	27.9384	258.243	0.60062	0.47206	51.8193	52.2913	0.44314	13.1781	13.6213	—	61,280.2	61,280.2	2.62517	2.88634	174.232	62,380.2
Total	85.0871	79.7030	60.6808	565.218	1.33246	1.04280	115.225	116.268	0.97902	29.3027	30.2818	—	135,946	135,946	5.62714	6.30214	387.420	138,353
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	2.85835	2.65747	2.44996	17.8824	0.04243	0.03596	3.94347	3.97942	0.03375	1.00286	1.03661	—	4,331.58	4,331.58	0.23206	0.23796	0.34380	4,408.64
Single Family Housing	0.55400	0.50905	0.54848	3.96732	0.01033	0.00862	0.97015	0.97877	0.00809	0.24672	0.25481	—	1,054.95	1,054.95	0.04787	0.05429	0.08458	1,072.41
Apartments Mid Rise	16.2890	14.9675	16.1265	116.649	0.30383	0.25338	28.5249	28.7783	0.23797	7.25416	7.49213	—	31,018.2	31,018.2	1.40737	1.59617	2.48684	31,531.5
High School	16.5118	15.3514	14.1527	103.301	0.24508	0.20771	22.7802	22.9879	0.19499	5.79321	5.98820	—	25,022.2	25,022.2	1.34054	1.37462	1.98601	25,467.3
Government Office Building	5.20918	4.84308	4.46492	32.5897	0.07732	0.06553	7.18674	7.25227	0.06152	1.82766	1.88917	—	7,894.06	7,894.06	0.42292	0.43367	0.62655	8,034.49
Strip Mall	37.5602	34.9206	32.1938	234.985	0.55750	0.47249	51.8193	52.2918	0.44355	13.1781	13.6217	—	56,919.3	56,919.3	3.04940	3.12692	4.51768	57,931.9
Total	78.9825	73.2490	69.9364	509.374	1.23650	1.04369	115.225	116.268	0.97987	29.3027	30.2826	—	126,240	126,240	6.50015	6.82363	10.0455	128,446

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.38900	0.36266	0.31384	2.38822	0.00587	0.00489	0.53327	0.53816	0.00459	0.13563	0.14022	—	544.001	544.001	0.02668	0.02830	0.70641	553.807
Single Family Housing	0.09887	0.09107	0.09227	0.70625	0.00188	0.00154	0.17211	0.17365	0.00144	0.04377	0.04522	—	173.868	173.868	0.00729	0.00848	0.22799	176.807
Apartments Mid Rise	2.82655	2.60348	2.63779	20.1907	0.05368	0.04394	4.92041	4.96435	0.04127	1.25143	1.29270	—	4,970.68	4,970.68	0.20854	0.24255	6.51787	5,054.70
High School	2.32797	2.17030	1.87816	14.2921	0.03515	0.02925	3.19133	3.22058	0.02746	0.81167	0.83912	—	3,255.53	3,255.53	0.15966	0.16934	4.22743	3,314.22
Government Office Building	0.67948	0.63346	0.54819	4.17151	0.01026	0.00854	0.93147	0.94001	0.00801	0.23690	0.24492	—	950.209	950.209	0.04660	0.04943	1.23388	967.337
Strip Mall	6.28042	5.85505	5.06693	38.5575	0.09484	0.07891	8.60962	8.68853	0.07408	2.18972	2.26380	—	8,782.82	8,782.82	0.43072	0.45685	11.4048	8,941.14
Total	12.6023	11.7160	10.5372	80.3063	0.20169	0.16707	18.3582	18.5253	0.15685	4.66912	4.82598	—	18,677.1	18,677.1	0.87949	0.95495	24.3184	19,008.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	895.696	895.696	0.14490	0.01756	—	904.553
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	76.2345	76.2345	0.01233	0.00149	—	76.9883

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Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,082.97	2,082.97	0.33698	0.04085	—	2,103.57
High School	—	—	—	—	—	—	—	—	—	—	—	—	891.464	891.464	0.14422	0.01748	—	900.278
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	799.913	799.913	0.12941	0.01569	—	807.823
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	1,223.73	1,223.73	0.19797	0.02400	—	1,235.83
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,970.01	5,970.01	0.96582	0.11707	—	6,029.04
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	895.696	895.696	0.14490	0.01756	—	904.553
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	76.2345	76.2345	0.01233	0.00149	—	76.9883
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,082.97	2,082.97	0.33698	0.04085	—	2,103.57
High School	—	—	—	—	—	—	—	—	—	—	—	—	891.464	891.464	0.14422	0.01748	—	900.278
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	799.913	799.913	0.12941	0.01569	—	807.823
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	1,223.73	1,223.73	0.19797	0.02400	—	1,235.83
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,970.01	5,970.01	0.96582	0.11707	—	6,029.04
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	148.293	148.293	0.02399	0.00291	—	149.759

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	12.6215	12.6215	0.00204	0.00025	—	12.7463
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	344.860	344.860	0.05579	0.00676	—	348.270
High School	—	—	—	—	—	—	—	—	—	—	—	—	147.592	147.592	0.02388	0.00289	—	149.051
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	132.435	132.435	0.02143	0.00260	—	133.744
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	202.603	202.603	0.03278	0.00397	—	204.606
Total	—	—	—	—	—	—	—	—	—	—	—	—	988.403	988.403	0.15990	0.01938	—	998.176

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.06532	0.03266	0.59380	0.49880	0.00356	0.04513	—	0.04513	0.04513	—	0.04513	—	708.507	708.507	0.06270	0.00133	—	710.472
Single Family Housing	0.01375	0.00688	0.11752	0.05001	0.00075	0.00950	—	0.00950	0.00950	—	0.00950	—	149.167	149.167	0.01320	0.00028	—	149.581
Apartments Mid Rise	0.33620	0.16810	2.87297	1.22254	0.01834	0.23228	—	0.23228	0.23228	—	0.23228	—	3,646.74	3,646.74	0.32273	0.00687	—	3,656.85
High School	0.44432	0.22216	4.03931	3.39302	0.02424	0.30699	—	0.30699	0.30699	—	0.30699	—	4,819.57	4,819.57	0.42653	0.00908	—	4,832.94

Government Office Building	0.05833	0.02917	0.53030	0.44546	0.00318	0.04030	—	0.04030	0.04030	—	0.04030	—	632.742	632.742	0.05600	0.00119	—	634.497
Strip Mall	0.06405	0.03203	0.58232	0.48915	0.00349	0.04426	—	0.04426	0.04426	—	0.04426	—	694.802	694.802	0.06149	0.00131	—	696.729
Total	0.98198	0.49099	8.73622	6.09897	0.05356	0.67846	—	0.67846	0.67846	—	0.67846	—	10,651.5	10,651.5	0.94266	0.02006	—	10,681.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.06532	0.03266	0.59380	0.49880	0.00356	0.04513	—	0.04513	0.04513	—	0.04513	—	708.507	708.507	0.06270	0.00133	—	710.472
Single Family Housing	0.01375	0.00688	0.11752	0.05001	0.00075	0.00950	—	0.00950	0.00950	—	0.00950	—	149.167	149.167	0.01320	0.00028	—	149.581
Apartments Mid Rise	0.33620	0.16810	2.87297	1.22254	0.01834	0.23228	—	0.23228	0.23228	—	0.23228	—	3,646.74	3,646.74	0.32273	0.00687	—	3,656.85
High School	0.44432	0.22216	4.03931	3.39302	0.02424	0.30699	—	0.30699	0.30699	—	0.30699	—	4,819.57	4,819.57	0.42653	0.00908	—	4,832.94
Government Office Building	0.05833	0.02917	0.53030	0.44546	0.00318	0.04030	—	0.04030	0.04030	—	0.04030	—	632.742	632.742	0.05600	0.00119	—	634.497
Strip Mall	0.06405	0.03203	0.58232	0.48915	0.00349	0.04426	—	0.04426	0.04426	—	0.04426	—	694.802	694.802	0.06149	0.00131	—	696.729
Total	0.98198	0.49099	8.73622	6.09897	0.05356	0.67846	—	0.67846	0.67846	—	0.67846	—	10,651.5	10,651.5	0.94266	0.02006	—	10,681.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.01192	0.00596	0.10837	0.09103	0.00065	0.00824	—	0.00824	0.00824	—	0.00824	—	117.301	117.301	0.01038	0.00022	—	117.627
Single Family Housing	0.00251	0.00125	0.02145	0.00913	0.00014	0.00173	—	0.00173	0.00173	—	0.00173	—	24.6963	24.6963	0.00219	0.00005	—	24.7648
Apartments Mid Rise	0.06136	0.03068	0.52432	0.22311	0.00335	0.04239	—	0.04239	0.04239	—	0.04239	—	603.759	603.759	0.05343	0.00114	—	605.434

High School	0.08109	0.04054	0.73717	0.61923	0.00442	0.05603	—	0.05603	0.05603	—	0.05603	—	797.935	797.935	0.07062	0.00150	—	800.148
Government Office Building	0.01065	0.00532	0.09678	0.08130	0.00058	0.00736	—	0.00736	0.00736	—	0.00736	—	104.758	104.758	0.00927	0.00020	—	105.048
Strip Mall	0.01169	0.00585	0.10627	0.08927	0.00064	0.00808	—	0.00808	0.00808	—	0.00808	—	115.032	115.032	0.01018	0.00022	—	115.351
Total	0.17921	0.08961	1.59436	1.11306	0.00978	0.12382	—	0.12382	0.12382	—	0.12382	—	1,763.48	1,763.48	0.15607	0.00332	—	1,768.37

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	43.0838	21.3096	10.0719	192.785	0.66383	27.6585	—	27.6585	26.6522	—	26.6522	4,570.46	8,854.00	13,424.5	21.5327	0.01667	—	13,967.8
Consumer Products	33.5456	33.5456	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.35713	2.35713	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	10.1535	9.47612	0.72421	80.1699	0.00400	0.07984	—	0.07984	0.06030	—	0.06030	—	260.694	260.694	0.01092	0.00220	—	261.623
Total	89.1400	66.6885	10.7961	272.955	0.66783	27.7384	—	27.7384	26.7125	—	26.7125	4,570.46	9,114.69	13,685.2	21.5436	0.01887	—	14,229.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Hearths	43.0838	21.3096	10.0719	192.785	0.66383	27.6585	—	27.6585	26.6522	—	26.6522	4,570.46	8,854.00	13,424.5	21.5327	0.01667	—	13,967.8
Consumer Products	33.5456	33.5456	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.35713	2.35713	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	78.9865	57.2124	10.0719	192.785	0.66383	27.6585	—	27.6585	26.6522	—	26.6522	4,570.46	8,854.00	13,424.5	21.5327	0.01667	—	13,967.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.76643	0.87370	0.41295	7.90418	0.02722	1.13400	—	1.13400	1.09274	—	1.09274	169.997	329.321	499.318	0.80090	0.00062	—	519.525
Consumer Products	6.12207	6.12207	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.43018	0.43018	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.91382	0.85285	0.06518	7.21529	0.00036	0.00719	—	0.00719	0.00543	—	0.00543	—	21.2848	21.2848	0.00089	0.00018	—	21.3606
Total	9.23250	8.27880	0.47813	15.1195	0.02758	1.14119	—	1.14119	1.09817	—	1.09817	169.997	350.606	520.603	0.80179	0.00080	—	540.886

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ATTACHMENT 5

Office Park	—	—	—	—	—	—	—	—	—	—	—	26.0808	25.1457	51.2265	2.67836	0.06403	—	137.267
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.24705	1.92263	3.16968	0.12818	0.00308	—	7.29083
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	64.3009	69.6272	133.928	6.60459	0.15802	—	346.133
High School	—	—	—	—	—	—	—	—	—	—	—	22.1453	31.6162	53.7615	2.27587	0.05457	—	126.921
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	26.0343	25.4833	51.5177	2.67364	0.06393	—	137.409
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	35.6754	34.6059	70.2814	3.66371	0.08759	—	187.977
Total	—	—	—	—	—	—	—	—	—	—	—	175.484	188.401	363.885	18.0243	0.43122	—	942.998
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	26.0808	25.1457	51.2265	2.67836	0.06403	—	137.267
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.24705	1.92263	3.16968	0.12818	0.00308	—	7.29083
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	64.3009	69.6272	133.928	6.60459	0.15802	—	346.133
High School	—	—	—	—	—	—	—	—	—	—	—	22.1453	31.6162	53.7615	2.27587	0.05457	—	126.921
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	26.0343	25.4833	51.5177	2.67364	0.06393	—	137.409
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	35.6754	34.6059	70.2814	3.66371	0.08759	—	187.977
Total	—	—	—	—	—	—	—	—	—	—	—	175.484	188.401	363.885	18.0243	0.43122	—	942.998

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	4.31798	4.16316	8.48113	0.44343	0.01060	—	22.7262
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.20646	0.31831	0.52478	0.02122	0.00051	—	1.20708
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	10.6458	11.5276	22.1733	1.09347	0.02616	—	57.3063
High School	—	—	—	—	—	—	—	—	—	—	—	3.66641	5.23442	8.90083	0.37680	0.00904	—	21.0132
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	4.31028	4.21906	8.52934	0.44265	0.01058	—	22.7496
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5.90648	5.72941	11.6359	0.60657	0.01450	—	31.1218
Total	—	—	—	—	—	—	—	—	—	—	—	29.0534	31.1919	60.2453	2.98414	0.07139	—	156.124

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	38.3817	0.00000	38.3817	3.83612	0.00000	—	134.285
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	7.67209	0.00000	7.67209	0.76680	0.00000	—	26.8420

ATTACHMENT 5

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	328.696	0.00000	328.696	32.8520	0.00000	—	1,149.99
High School	—	—	—	—	—	—	—	—	—	—	—	243.847	0.00000	243.847	24.3716	0.00000	—	853.138
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	34.2776	0.00000	34.2776	3.42592	0.00000	—	119.926
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	142.230	0.00000	142.230	14.2154	0.00000	—	497.615
Total	—	—	—	—	—	—	—	—	—	—	—	795.105	0.00000	795.105	79.4678	0.00000	—	2,781.80
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	38.3817	0.00000	38.3817	3.83612	0.00000	—	134.285
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	7.67209	0.00000	7.67209	0.76680	0.00000	—	26.8420
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	328.696	0.00000	328.696	32.8520	0.00000	—	1,149.99
High School	—	—	—	—	—	—	—	—	—	—	—	243.847	0.00000	243.847	24.3716	0.00000	—	853.138
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	34.2776	0.00000	34.2776	3.42592	0.00000	—	119.926
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	142.230	0.00000	142.230	14.2154	0.00000	—	497.615
Total	—	—	—	—	—	—	—	—	—	—	—	795.105	0.00000	795.105	79.4678	0.00000	—	2,781.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	6.35453	0.00000	6.35453	0.63511	0.00000	—	22.2324

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.27020	0.00000	1.27020	0.12695	0.00000	—	4.44400
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	54.4193	0.00000	54.4193	5.43902	0.00000	—	190.395
High School	—	—	—	—	—	—	—	—	—	—	—	40.3717	0.00000	40.3717	4.03500	0.00000	—	141.247
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	5.67504	0.00000	5.67504	0.56720	0.00000	—	19.8550
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	23.5478	0.00000	23.5478	2.35352	0.00000	—	82.3859
Total	—	—	—	—	—	—	—	—	—	—	—	131.639	0.00000	131.639	13.1568	0.00000	—	460.559

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18624	0.18624
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22345	0.22345
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.67231	5.67231
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.34444	1.34444

Govern Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16632	0.16632
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.56541	1.56541
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.15817	9.15817
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18624	0.18624
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22345	0.22345
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.67231	5.67231
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.34444	1.34444
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16632	0.16632
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.56541	1.56541
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.15817	9.15817
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03083	0.03083
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03700	0.03700
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.93912	0.93912

High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22259	0.22259
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02754	0.02754
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25917	0.25917
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.51624	1.51624

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. 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)

ATTACHMENT 5

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. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

ATTACHMENT 5

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

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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

5.9. 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
Office Park	289.326	42.8630	19.8634	78,702.0	1,890.23	280.034	129.772	514,178
Single Family Housing	103.840	104.940	94.0500	37,448.5	926.905	936.724	839.517	334,276
Apartments Mid Rise	1,664.64	1,502.46	1,251.54	577,597	14,859.0	13,411.4	11,171.6	5,155,792
High School	4,896.98	1,385.22	595.156	1,379,976	31,993.1	9,049.92	3,888.28	9,015,685
Office Park	182.275	27.0037	12.5139	49,582.3	1,190.84	176.421	81.7561	323,932
Government Office Building	560.892	0.00000	0.00000	146,232	3,664.43	0.00000	0.00000	955,369
Office Park	376.114	55.7206	25.8218	102,310	2,457.24	364.035	168.699	668,415
Single Family Housing	47.2000	47.7000	42.7500	17,022.0	421.320	425.784	381.599	151,943
Strip Mall	11,139.4	10,566.4	5,134.90	3,722,919	72,776.3	69,032.4	33,547.4	24,322,639
Apartments Mid Rise	2,823.36	2,548.29	2,122.71	979,650	25,202.1	22,746.8	18,947.9	8,744,628
Government Office Building	984.020	0.00000	0.00000	256,548	6,428.82	0.00000	0.00000	1,676,085

5.10. Operational Area Sources

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5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Office Park	Wood Fireplaces	0	0
Office Park	Gas Fireplaces	0	0
Office Park	Propane Fireplaces	0	0
Office Park	Electric Fireplaces	0	0
Office Park	No Fireplaces	0	0
Office Park	Conventional Wood Stoves	0	0
Office Park	Catalytic Wood Stoves	0	0
Office Park	Non-Catalytic Wood Stoves	0	0
Office Park	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	6	6
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	6	6
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	1	1
Single Family Housing	Non-Catalytic Wood Stoves	1	1
Single Family Housing	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	153	153
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	153	153
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	15	15
Apartments Mid Rise	Non-Catalytic Wood Stoves	15	15

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Apartments Mid Rise	Pellet Wood Stoves	0	0
High School	Wood Fireplaces	0	0
High School	Gas Fireplaces	0	0
High School	Propane Fireplaces	0	0
High School	Electric Fireplaces	0	0
High School	No Fireplaces	0	0
High School	Conventional Wood Stoves	0	0
High School	Catalytic Wood Stoves	0	0
High School	Non-Catalytic Wood Stoves	0	0
High School	Pellet Wood Stoves	0	0
Office Park	Wood Fireplaces	0	0
Office Park	Gas Fireplaces	0	0
Office Park	Propane Fireplaces	0	0
Office Park	Electric Fireplaces	0	0
Office Park	No Fireplaces	0	0
Office Park	Conventional Wood Stoves	0	0
Office Park	Catalytic Wood Stoves	0	0
Office Park	Non-Catalytic Wood Stoves	0	0
Office Park	Pellet Wood Stoves	0	0
Government Office Building	Wood Fireplaces	0	0
Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0
Government Office Building	Electric Fireplaces	0	0
Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0

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Office Park	Wood Fireplaces	0	0
Office Park	Gas Fireplaces	0	0
Office Park	Propane Fireplaces	0	0
Office Park	Electric Fireplaces	0	0
Office Park	No Fireplaces	0	0
Office Park	Conventional Wood Stoves	0	0
Office Park	Catalytic Wood Stoves	0	0
Office Park	Non-Catalytic Wood Stoves	0	0
Office Park	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	3	3
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	3	3
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0

Apartments Mid Rise	Gas Fireplaces	260	260
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	260	260
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	26	26
Apartments Mid Rise	Non-Catalytic Wood Stoves	26	26
Apartments Mid Rise	Pellet Wood Stoves	0	0
Government Office Building	Wood Fireplaces	0	0
Government Office Building	Gas Fireplaces	0	0
Government Office Building	Propane Fireplaces	0	0
Government Office Building	Electric Fireplaces	0	0
Government Office Building	No Fireplaces	0	0
Government Office Building	Conventional Wood Stoves	0	0
Government Office Building	Catalytic Wood Stoves	0	0
Government Office Building	Non-Catalytic Wood Stoves	0	0
Government Office Building	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1,666,980	555,660	1,116,528	372,176	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

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)
Office Park	547,009	203.983	0.0330	0.0040	754,521
Single Family Housing	93,782.8	203.983	0.0330	0.0040	319,990
Apartments Mid Rise	1,382,450	203.983	0.0330	0.0040	4,220,503
High School	1,595,154	203.983	0.0330	0.0040	15,038,351
Office Park	344,622	203.983	0.0330	0.0040	475,357
Government Office Building	519,654	203.983	0.0330	0.0040	716,789
Office Park	711,095	203.983	0.0330	0.0040	980,854
Single Family Housing	42,628.5	203.983	0.0330	0.0040	145,450
Strip Mall	2,189,702	203.983	0.0330	0.0040	2,167,967
Apartments Mid Rise	2,344,744	203.983	0.0330	0.0040	7,158,303
Government Office Building	911,682	203.983	0.0330	0.0040	1,257,535

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Office Park	4,645,249	122,282
Single Family Housing	447,412	723,050
Apartments Mid Rise	12,446,175	3,240,234
High School	11,556,689	10,855,922
Office Park	2,926,507	77,037.7
Government Office Building	4,932,561	139,402
Office Park	6,038,682	158,967

Single Family Housing	203,369	34,502.5
Strip Mall	18,617,462	705,568
Apartments Mid Rise	21,109,689	5,488,106
Government Office Building	8,653,616	611,411

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Office Park	24.3065	0.00000
Single Family Housing	9.85538	0.00000
Apartments Mid Rise	226.192	0.00000
High School	452.458	0.00000
Office Park	15.3131	0.00000
Government Office Building	23.0912	0.00000
Office Park	31.5977	0.00000
Single Family Housing	4.38017	0.00000
Strip Mall	263.908	0.00000
Apartments Mid Rise	383.702	0.00000
Government Office Building	40.5108	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Office Park	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000

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Office Park	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
High School	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
High School	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
High School	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Office Park	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Office Park	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Office Park	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000

Office Park	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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5.16.2. Process Boilers

5.17. User Defined

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. Biomass Cover Type

5.18.1.1. Unmitigated

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)

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Lot acreage adjusted to represent overall acreage of the project site.

8.3. Land Use

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Model Parameter	Units	Default Value	New Value
Lot Area	acre	0.60000	1.000000
Landscape Area	sq. ft	—	8,712.00
Lot Area	acre	3.57143	1.46000
Landscape Area	sq. ft	128,841	42,147.6
Lot Area	acre	8.05263	10.2200
Landscape Area	sq. ft	—	188,878
Lot Area	acre	7.99000	15.9800
Landscape Area	sq. ft	—	348,044
Lot Area	acre	0.37800	0.63000
Landscape Area	sq. ft	—	5,488.56
Lot Area	acre	0.57000	1.14000
Landscape Area	sq. ft	—	9,931.68
Lot Area	acre	0.77998	1.30000
Landscape Area	sq. ft	—	11,325.6
Lot Area	acre	1.62338	0.27000
Landscape Area	sq. ft	58,564.0	2,011.20
Lot Area	acre	5.77000	5.77000
Landscape Area	sq. ft	—	50,268.2
Lot Area	acre	13.6579	17.3100
Landscape Area	sq. ft	—	319,910
Lot Area	acre	1.00000	2.00000
Landscape Area	sq. ft	—	43,560.0