APPLICATIONS:

APPEAL APPLICATION

Instructions and Checklist

Related Code Section: Refer to the City Planning case determination to identify the Zone Code section for the entitlement and the appeal procedure.

Purpose: This application is for the appeal of Department of City Planning determinations authorized by the Los Angeles Municipal Code (LAMC).

A. APPELLATE BODY/CASE INFORMATION

1. APPELLATE BODY

☐ Area Planning Commission ☐ City Planning Commission ☑ City Council ☐ Director of Planning
☐ Zoning Administrator

Regarding Case Number: VTT-74891

Project Address: 20920 – 20970 West Warner Center Lane; 20935 – 21051 West Warner Center Lane; 20

Final Date to Appeal: 01/25/2021

2. APPELLANT

Appellant Identity:
(check all that apply)

☑ Representative ☐ Property Owner
☐ Applicant ☐ Operator of the Use/Site

☑ Person, other than the Applicant, Owner or Operator claiming to be aggrieved
Southwest Regional Council of Carpenters

☐ Person affected by the determination made by the **Department of Building and Safety**

☐ Representative ☐ Owner ☐ Aggrieved Party
☐ Applicant ☐ Operator

3. APPELLANT INFORMATION

Appellant's Name: Mitchell M. Tsai

Company/Organization: MITCHELL M. TSAI, ATTORNEY AT LAW PC

Mailing Address: 155 South El Molino Avenue, Ste. 104

City: Pasadena State: CA Zip: 91101

Telephone: (626) 314-3821 E-mail: mitch@mitchtsailaw.com

a. Is the appeal being filed on your behalf or on behalf of another party, organization or company?

☐ Self ☑ Other: SW Regional Council of Carpent

b. Is the appeal being filed to support the original applicant's position? ☐ Yes ☑ No

4. REPRESENTATIVE/AGENT INFORMATION

Representative/Agent name (if applicable): Mitchell M. Tsai

Company: MITCHELL M. TSAI, ATTORNEY AT LAW

Mailing Address: 155 South El Molino Avenue, Ste. 104

City: Pasadena State: CA Zip: 91101

Telephone: (626) 314-3821 E-mail: mitch@mitchtsailaw.com

5. JUSTIFICATION/REASON FOR APPEAL

a. Is the entire decision, or only parts of it being appealed? ☑ Entire ☐ Part

b. Are specific conditions of approval being appealed? ☐ Yes ☑ No

If Yes, list the condition number(s) here: _____

Attach a separate sheet providing your reasons for the appeal. Your reason must state:

- ☐ The reason for the appeal
- ☐ How you are aggrieved by the decision
- ☐ Specifically the points at issue
- ☐ Why you believe the decision-maker erred or abused their discretion

6. APPLICANT'S AFFIDAVIT

I certify that the statements contained in this application are complete and true:

Appellant Signature: Mitchell Tsai Date: January 22, 2021

GENERAL APPEAL FILING REQUIREMENTS

B. ***ALL CASES REQUIRE THE FOLLOWING ITEMS - SEE THE ADDITIONAL INSTRUCTIONS FOR SPECIFIC CASE TYPES***

1. Appeal Documents

a. **Three (3) sets** - The following documents are required for each appeal filed (1 original and 2 duplicates) Each case being appealed is required to provide three (3) sets of the listed documents.

- ☐ Appeal Application (form CP-7769)
- ☐ Justification/Reason for Appeal
- ☐ Copies of Original Determination Letter

b. **Electronic Copy**

- ☐ Provide an electronic copy of your appeal documents on a flash drive (planning staff will upload materials during filing and return the flash drive to you) or a CD (which will remain in the file). The following items must be saved as individual PDFs and labeled accordingly (e.g. "Appeal Form.pdf", "Justification/Reason Statement.pdf", or "Original Determination Letter.pdf" etc.). No file should exceed 9.8 MB in size.

c. **Appeal Fee**

- ☐ Original Applicant - A fee equal to 85% of the original application fee, provide a copy of the original application receipt(s) to calculate the fee per LAMC Section 19.01B 1.
- ☐ Aggrieved Party - The fee charged shall be in accordance with the LAMC Section 19.01B 1.

d. **Notice Requirement**

- ☐ Mailing List - All appeals require noticing per the applicable LAMC section(s). Original Applicants must provide noticing per the LAMC
- ☐ Mailing Fee - The appeal notice mailing fee is paid by the project applicant, payment is made to the City Planning's mailing contractor (BTC), a copy of the receipt must be submitted as proof of payment.

SPECIFIC CASE TYPES - APPEAL FILING INFORMATION

C. DENSITY BONUS / TRANSIT ORIENTED COMMUNITES (TOC)

1. **Density Bonus/TOC**
   Appeal procedures for Density Bonus/TOC per LAMC Section 12.22.A 25 (g) f.

NOTE:
- Density Bonus/TOC cases, only the *on menu or additional incentives* items can be appealed.
- Appeals of Density Bonus/TOC cases can only be filed by adjacent owners or tenants (must have documentation), and always only appealable to the Citywide Planning Commission.

☐ Provide documentation to confirm adjacent owner or tenant status, i.e., a lease agreement, rent receipt, utility bill, property tax bill, ZIMAS, drivers license, bill statement etc.

D. WAIVER OF DEDICATION AND OR IMPROVEMENT

Appeal procedure for Waiver of Dedication or Improvement per LAMC Section 12.37 I.

NOTE:
- Waivers for By-Right Projects, can only be appealed by the owner.
- When a Waiver is on appeal and is part of a master land use application request or subdivider's statement for a project, the applicant may appeal pursuant to the procedures that governs the entitlement.

E. TENTATIVE TRACT/VESTING

1. **Tentative Tract/Vesting** - Appeal procedure for Tentative Tract / Vesting application per LAMC Section 17.54 A.

NOTE: Appeals to the City Council from a determination on a Tentative Tract (TT or VTT) by the Area or City Planning Commission must be filed within 10 days of the date of the written determination of said Commission.

☐ Provide a copy of the written determination letter from Commission.

F. BUILDING AND SAFETY DETERMINATION

☐ 1. Appeal of the *Department of Building and Safety* determination, per LAMC 12.26 K 1, an appellant is considered the **Original Applicant** and must provide noticing and pay mailing fees.

a. **Appeal Fee**
   ☐ Original Applicant - The fee charged shall be in accordance with LAMC Section 19.01B 2, as stated in the Building and Safety determination letter, plus all surcharges. (the fee specified in Table 4-A, Section 98.0403.2 of the City of Los Angeles Building Code)

b. **Notice Requirement**
   ☐ Mailing Fee - The applicant must pay mailing fees to City Planning's mailing contractor (BTC) and submit a copy of receipt as proof of payment.

☐ 2. Appeal of the *Director of City Planning* determination per LAMC Section 12.26 K 6, an applicant or any other aggrieved person may file an appeal, and is appealable to the Area Planning Commission or Citywide Planning Commission as noted in the determination.

a. **Appeal Fee**
   ☐ Original Applicant - The fee charged shall be in accordance with the LAMC Section 19.01 B 1 a.

b. **Notice Requirement**
   ☐ Mailing List - The appeal notification requirements per LAMC Section 12.26 K 7 apply.
   ☐ Mailing Fees - The appeal notice mailing fee is made to City Planning's mailing contractor (BTC), a copy of receipt must be submitted as proof of payment.

G. NUISANCE ABATEMENT

1. **Nuisance Abatement** - Appeal procedure for Nuisance Abatement per LAMC Section 12.27.1 C 4

NOTE:
- Nuisance Abatement is only appealable to the City Council.

a. **Appeal Fee**
☐ Aggrieved Party the fee charged shall be in accordance with the LAMC Section 19.01 B 1.

2. **Plan Approval/Compliance Review**
Appeal procedure for Nuisance Abatement Plan Approval/Compliance Review per LAMC Section 12.27.1 C 4.

a. **Appeal Fee**
☐ Compliance Review - The fee charged shall be in accordance with the LAMC Section 19.01 B.
☐ Modification - The fee shall be in accordance with the LAMC Section 19.01 B.

NOTES

A Certified Neighborhood Council (CNC) or a person identified as a member of a CNC or as representing the CNC may not file an appeal on behalf of the Neighborhood Council; persons affiliated with a CNC may only file as an individual on behalf of self.

***Please note** that the appellate body must act on your appeal within a time period specified in the Section(s) of the Los Angeles Municipal Code (LAMC) pertaining to the type of appeal being filed. The Department of City Planning will make its best efforts to have appeals scheduled prior to the appellate body's last day to act in order to provide due process to the appellant. If the appellate body is unable to come to a consensus or is unable to hear and consider the appeal prior to the last day to act, the appeal is automatically deemed denied, and the original decision will stand. The last day to act as defined in the LAMC may only be extended if formally agreed upon by the applicant.*

This Section for City Planning Staff Use Only		
Base Fee:	Reviewed & Accepted by (DSC Planner):	Date:
Receipt No:	Deemed Complete by (Project Planner):	Date:
☐ Determination authority notified	☐ Original receipt and BTC receipt (if original applicant)	

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Mitchell M. Tsai
Attorney At Law

155 South El Molino Avenue
Suite 104
Pasadena, California 91101

VIA E-MAIL ONLY

January 22, 2021

City Council
City of Los Angeles
200 N. Spring Street
Los Angeles, CA 90012

E-mail Delivery to: CityClerk@lacity.org

Re: Appeal of the "De Soto/Burbank Master Plan Project" of the Warner Center Specific Plan; Case Nos. DIR-2017-1708-SPP (CEQA No. ENV-2017-1706-MND)

Dear Honorable Councilmembers,

On behalf of the Southwest Regional Council of Carpenters ("**Commenter**," "**Appellant**" or "**Carpenters**"), my Office is submitting these comments to support its appeal of the City of Los Angeles' ("**City**" or "**Lead Agency**") Planning Commission's approval of the "De Soto/Burbank Master Plan Project" within the Warner Center Specific Plan, located at 20920 – 20970 W Warner Center Lane, 20935 – 21051 W Warner Center Lane, and 20931 – 21041 W Burbank Boulevard ("**Project**") (Case Nos. DIR-2017-1708-SPP and VTT-74891-1A; CEQA No. ENV-2017-1706-MND.)

This appeal arises from the March 23, 2020 Letters of Determinations ("LOD") issued by the Director of Planning for entitlement cases DIR-2017-1708-SPP and VTT 74891-1A.

The Southwest Carpenters is a labor union representing 50,000 union carpenters in six states, including in southern California, and has a strong interest in well-ordered land use planning and addressing the environmental impacts of development projects.

Individual members of the Southwest Carpenters live, work and recreate in the City and surrounding communities and would be directly affected by the Project's environmental impacts.

Commenters expressly reserves the right to supplement these comments at or prior to hearings on the Project, and at any later hearings and proceedings related to this Project. Cal. Gov. Code § 65009(b); Cal. Pub. Res. Code § 21177(a); *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal. App. 4th 1184, 1199-1203; see *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal. App. 4th 1109, 1121.

Commenters expressly reserves the right to supplement these comments at or prior to hearings on the Project, and at any later hearings and proceedings related to this Project. Cal. Gov. Code § 65009(b); Cal. Pub. Res. Code § 21177(a); *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal. App. 4th 1184, 1199-1203; see *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal. App. 4th 1109, 1121.

Commenters incorporates by reference all comments raising issues regarding the MND submitted prior to certification of the MND for the Project. *Citizens for Clean Energy v City of Woodland* (2014) 225 Cal. App. 4th 173, 191(finding that any party who has objected to the Project's environmental documentation may assert any issue timely raised by other parties).

I. **EXPERTS**

This comment letter includes comments from air quality and greenhouse gas experts Matt Hagemann, P.G., C.Hg. and Paul Rosenfeld, Ph.D. concerning the DEIR. Their comments, attachments, and Curriculum Vitae ("**CV**") are attached hereto and are incorporated herein by reference.

Matt Hagemann, P.G., C.Hg. ("**Mr. Hagemann**") has over 30 years of experience in environmental policy, contaminant assessment and remediation, stormwater compliance, and CEQA review. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Mr. Hagemann also served as Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closer. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) and directed efforts to improve hydrogeologic characterization and water quality monitoring.

For the past 15 years, Mr. Hagemann has worked as a founding partner with SWAPE (Soil/Water/Air Protection Enterprise). At SWAPE, Mr. Hagemann has developed extensive client relationships and has managed complex projects that include

consultation as an expert witness and a regulatory specialist, and a manager of projects ranging from industrial stormwater compliance to CEQA review of impacts from hazardous waste, air quality, and greenhouse gas emissions.

Mr. Hagemann has a Bachelor of Arts degree in geology from Humboldt State University in California and a Masters in Science degree from California State University Los Angeles in California.

Paul Rosenfeld, Ph.D. ("**Dr. Rosenfeld**") is a principal environmental chemist at SWAPE. Dr. Rosenfeld has over 25 years' experience conducting environmental investigations and risk assessments for evaluating impacts on human health, property, and ecological receptors. His expertise focuses on the fate and transport of environmental contaminants, human health risks, exposure assessment, and ecological restoration. Dr. Rosenfeld has evaluated and modeled emissions from unconventional oil drilling operations, oil spills, landfills, boilers and incinerators, process stacks, storage tanks, confined animal feeding operations, and many other industrial and agricultural sources. His project experience ranges from monitoring and modeling of pollution sources to evaluating impacts of pollution on workers at industrial facilities and residents in surrounding communities.

Dr. Rosenfeld has investigated and designed remediation programs and risk assessments for contaminated sites containing lead, heavy metals, mold, bacteria, particular matter, petroleum hydrocarbons, chlorinated solvents, pesticides, radioactive waste, dioxins and furans, semi- and volatile organic compounds, PCBs, PAHs, perchlorate, asbestos, per- and poly-fluoroalkyl substances (PFOA/PFOS), unusual polymers, fuel oxygenates (MTBE), among other pollutants, Dr. Rosenfeld also has experience evaluating greenhouse gas emissions from various projects and is an expert on the assessment of odors from industrial and agricultural sites, as well as the evaluation of odor nuisance impacts and technologies for abatement of odorous emissions. As a principal scientist at SWAPE, Dr. Rosenfeld directs air dispersion modeling and exposure assessments. He has served as an expert witness and testified about pollution sources causing nuisance and/or personal injury at dozens of sites and has testified as an expert witness on more than ten cases involving exposure to air contaminants from industrial sources.

Dr. Rosenfeld has a Ph.D. in soil chemistry from the University of Washington, M.S. in environmental science from U.C. Berkeley, and B.A. in environmental studies from U.C. Santa Barbara.

II. THE PROJECT IS INCONSISTENT WITH THE WARNER CENTER 2035 PLAN AND THE LOS ANGELES MUNICIPAL CODE

a. The Project Fails to Comply with the Warner Center 2035 Plan

The primary purpose of the March 23, 2020 LOD is to approve the Project with the determination that it is compliant with the Warner Center 2035 Specific Plan. Los Angeles Municipal Code ("LAMC") 11.5.7(C)(2) requires that the Director make written findings prior to granting a Project Permit Compliance for Project in a specific plan area. The LOD then analyzes and concludes that the Project is consistent with the applicable general and specific plans, including the Warner Center 2035 Specific Plan. (3/23/2020 LOD, pp. 54-74.)

However, the Project as currently proposed and modified does not comply with the Warner Center 2035 Plan.

1. The City's Acceptance of Applicant's Appeal Renders the Project Inconsistent with the Warner Center 2035 Plan

i. *Revision of DIR Condition 2.d*

As specifically explained below, the City accepted Applicant's appeal which rendered the Project inconsistent with the Warner Center 2035 Plan.

First, the Applicant argues in appeal that the last sentence of DIR Condition 2.d should be removed because it would prohibit the concurrent development of multiple phases because it states "No temporary certificate of occupancy shall be issued for a residential building which also contains commercial square footage, unless the commercial component has received a temporary certificate of occupancy prior to, or concurrently with, the residential building component. No building permit shall be issued for the next sequential development phase prior to compliance with this condition." (8/13/2020 CPC Staff Report, p. A-12 [emphasis added].)

The City planning staff and the CPC accepted the Applicant's request and removed the last sentence of DIR Condition 2.d, along with a few other revisions, effectively allowing concurrent development of phases. (8/13/2020 CPC Technical Memorandum, pdf pg. 17.) The City admits that the newly revised DIR Condition 2.d effectively "allow(s) concurrent development of multiple phases." (*Id.*, pdf pg. 64.)

However, the City itself states that the previous DIR Condition 2.d is consistent with the Specific Plan and is based on a City policy to ensure that the Specific Plan projects

are carried out as intended by the Specific Plan. As the City noted, the Specific Plan was intended to prioritize the commercial aspect of the Project. (8/13/2020 CPC Staff Report; Specific Plan 6.1.2.2. emphasizes that the Commerce District is intended to be the most jobs-rich district). Thus, to carry out the intent of the Specific Plan, the City has previously imposed in another Specific Plan project (ZA-2016-3908-MCUP-DI-SPP) the same condition to prioritize commercial component to achieve the employment / residential balance sought by the Specific Plan.

Despite these Specific Plan requirements, the City accepts Applicant's appeal to remove Condition 2.d (last sentence) and effectively remove the Project's phasing requirement. (8/13/2020 CPC Staff Report, p. A-12.) This is inconsistent with the Specific Plan's clear requirements and renders the Project inconsistent with the Specific Plan.

ii. Revision of DIR Condition 27 re Mobility Fee

The Letter of Determination's DIR Condition 27 correctly applied the Mobility Fee using Appendix D of the Specific Plan, which was amended by Ordinance No. 186,498 (effective March 10, 2020). However, upon Applicant's appeal, the City is recommending revision of the Letter of Determination to reflect the pre-amendment Mobility Fee to apply, saying the Mobility Fee will be calculated based on the date on which the application was deemed complete. (8/13/2020 CPC Staff Report, p. A-20.) The City's 8/13/2020 Technical Memorandum echoes the rationale contained in the Staff Report. (8/13/2020 CPC Technical Memorandum, pdf p. 29.)

However, the City applies the Mobility Fee Update inconsistently. In another Specific Plan case, Case No. DIR-2018-3394-SPP-1A, Project Site 6366-6410 Canoga Avenue, the City refused to apply the Mobility Fee Update, effective March 10, 2020, to that case because the Letter of Determination for the case was issued on January 2, 2020, before the effective date. (Case No. DIR-2018-3394-SPP-1A, Staff Report to South Valley Area Planning Commission, A-3.) Now, the City says the time for determining whether the Mobility Fee Update applies or not is the date when the application was deemed complete.

Absent statutory exceptions under federal, state or local law, the City's decision as to whether to grant land use entitlements for the Project, are subject to the legal requirements <u>at the time of approval</u>. (*Avco Community Developers, Inc. v. South Coast Regional Com.* (1976) 17 Cal. 3d 785, 793; 793 [stating "the government cannot be

estopped to enforce the laws in effect when the permit is issued."]; *Alameda County Land Use Assn. v. City of Hayward* (1995) 38 Cal. App. 4th 1716, 1724 [finding that "A local legislative body cannot surrender or impair its delegated governmental power or that of successor legislative bodies either by ordinance or contract."]*;Trancas Property Owners Assn. v. City of Malibu* (2006) 138 Cal. App. 4th 172, 181 [finding that a City cannot agree not to enforce its current land use and zoning laws, since it would amount to an abdication of a City's "police powers."].)

Moreover, by continuing to approve projects as part of the Warner Center 2035 Plan without ensuring that the revised requirements, like the Mobility fees, will equally apply to all projects as part of the Specific Plan, the City fails to safeguard that the projects within the Specific Plan will be carried out appropriately and consistently.

In sum, the City's revision of DIR Condition 27 to remove the applicability of the Mobility Fee Update renders the Project inconsistent with the Specific Plan.

2. <u>The Project Does Not Comply with the Specific Plan's Cultural Amenities Trust Fund Requirements</u>

The Warner Center 2035 Plan requires that projects with values of over $500,000.00 pay into the Warner Center Cultural Amenities Trust Fund. (Warner Center 2035 Plan at pp. 15, 43, 111.) The Warner Center 2035 Plan defines "Warner Center Cultural Amenities Fee," in part, as "[a] fee designed to specify that the cultural arts fees collected into a specific fund, known as the Warner Center Cultural Amenities Trust Fund, to be used for cultural arts and amenities with the Plan area only…." (Warner Center 2035 Plan, pg. 15.)

However, the Project's Condition of Approval No. 29 merely references the conditional requirements. (Exhibit B to 8/13/2020 CPC Staff Report.) Since the Letter of Determination admits that this Project would exceed the $500,000 threshold and the estimated total Cultural Amenities fee will be $1,982,631.05, the Condition of Approval No. 29 should be revised to state that the Applicant <u>will be</u> assessed Cultural Amenities fees under the Specific Plan because the Project meets the $500,000 minimum threshold. The current conditional language is confusing.

The Staff Report responds by merely reiterating the Project's Conditions of Approval and argues that it was sufficient to meet the Warner Center 2035 Plan requirements despite the conditional requirement. (8/13/2020 CPC Staff Report, p. A-23.) However, as explained above, the conditional language is unclear and it should be

determined at the Project approval stage whether the Project will be required to pay the Cultural Amenities fees definitively.

3. The Project Violates the Warner Center 2035 Plan's Publicly Accessible Open Space Requirements

Warner Center 2035 Plan Section 5.2.2 requires that the Project shall provide a minimum of 15 percent of the net site area as Publicly Accessible Open Space (PAOS) based on a lot size of 1,042,301 square feet. Thus, the minimum required PAOS for the Project is 156,345.15 square feet.

However, the LOD states that the minimum PAOS requirement is only 78,173 square feet on the erroneous basis that the Project will provide a new street, which purportedly qualifies the Project for a 50% reduction of the PAOS requirement. (3/23/2020 DIR LOD, p. 19-20.) And based on this erroneous assumption, the Project will only provide 11%, not 15%, of the Project site as PAOS. (*Id.* at p. 18.)

At the June 25, 2020 City Planning Commission meeting, Commissioner Ambroz accurately noted that the Project is not actually providing a new street that would warrant the 50% reduction of the PAOS requirement under the Warner Center 2035 Plan.

The City's 8/13/2020 Technical Memorandum later rationalized the reduction by stating the new Warner Center Lane is considered a new private street because "[p]er the Subdivision Map Act, the Bureau of Engineering considers this a merger and re-subdivision of the entire site." (8/13/2020 CPC Technical Memorandum, pdf pg. 5.) And the City also responded that the new Warner Center Lane will be considered to be a new lane because it will be modified and partially realigned. (*Id.*, pdf. pg. 65.)

However, the Specific Plan does not define what qualifies as "new street" in that way. Specific Plan section 6.2.2.3.2 provides: "A Project that includes the creation of new streets, including the portion of Variel Avenue dedicated and improved for the extension between Burbank Boulevard and Califa Street, shall be credited fifty (50%) of such Project's PAOS requirement…." To be clear, Variel Avenue between Burbank Boulevard and Califa Street did not exist prior to the Specific Plan whereas Warner Center Lane is an actually existing street prior to the implementation of this Project.

Moreover, if the City were to apply the same rationale to all of the Specific Plan projects, the PAOS requirement would be significantly eroded as existing roads within projects under the Subdivision Map Act would now be counted as new roads.

In addition, Commissioner Ambroz also pointed out that the Project will receive a development bonus for any additional PAOS exceeding the incorrectly discounted minimum of 7.5%. So not only is the Project not consistent with the 15% minimum PAOS requirement but also provides additional incentives in spite of not meeting the requirements based on the erroneous assumption that the applicant would be providing a new street (when in fact the new street already exists).

Finally, Commissioner Ambroz also raised concerns that the existing PAOS on the Project site were fractured and were tailored to benefit the residents, not the general public. To that end, the Project violates Specific Plan's PAOS standards 6.2.2.2 which require PAOS, at a minimum, to be contiguous, internally and externally integrated, accessible to the public, open to the sky, landscaped and provide seating.

Therefore, because the Project fails to provide at least 15% of its net site area as PAOS and fails to conform to the minimum standards of the Specific Plan, the Project is inconsistent with the Warner Center 2035 Plan.

4. The Project Should Be Stayed Until the City Implements City Council's Direction to Implement Additional Labor Standards, Local Hire, Prevailing Wage, Mobility Fee and Affordable Housing Requirements

The City has recently approved a number of changes to the Warner Center 2035 Plan, including measures to implement labor standards, local hire, prevailing wage, mobility fee and affordable housing requirements (Council Files 13-0197-S4, 13-0197-S9, 13-0197-S6), all of which are currently being ignored as part of the City's Warner Center 2035 Plan implementation process.

Here, the City initially got it right by applying the calculations from Mobility Fee Update (Ordinance No. 186, 498), with the effective date of March 10, 2020. (Letter of Determination.) However, the City then accepted Applicant's appeal to apply the pre-amendment Mobility Fee, saying the Mobility Fee will be calculated based on the date on which the application was deemed complete. (8/13/2020 CPC Staff Report, p. A-20.)

However, as explained in full above, a project is subject to all legal requirements, including the Mobility Fee update, which is in effect at the time of the Project approval. By failing to apply the Mobility Fee update which has been in effect prior to

the Letter of Determination in this case, the City has erred and the Project is now inconsistent with the Specific Plan.

Moreover, by continuing to approve projects as part of the Warner Center 2035 Plan without ensuring that the revised requirements, like the Mobility fees, will equally apply to all projects as part of the Specific Plan, the City fails to safeguard that the projects within the Specific Plan will be carried out appropriately and consistently.

Therefore, the Project is inconsistent with the Warner Center 2035 Plan.

b. The Project is Inconsistent with the Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan

Canoga Park-Winnetka-Woodland Hills-West Hills ("**CPWWHWH**") Community Plan Objective 1-4 requires that projects "[p]rovide a diversity of housing opportunities capable of accommodating all persons regardless of income, age or ethnic background." (CPWWHWH Community Plan, p. III-4.)

However, the Project was initially proposed with zero affordable or low income housing units. Any affordable units the applicant might have added at the CPC's behest is still insufficient given the enormity of this Project and the 1,009 multi-family residential units the Project will ultimately construct.

Therefore, the LOD fails to establish that the Project is consistent with the Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan Objective 1-4.

c. The Project Fails to Comply with LAMC 11.5.7(C)

Before granting a Project Permit Compliance request, LAMC 11.5.7(C)(2) requires the Director to make written findings that the Project satisfies each of the following requirements:

(a) That the project substantially complies with the applicable regulations, findings, standards and provisions of the specific plan; and

(b) That the project incorporates mitigation measures, monitoring measures when necessary, or alternatives identified in the environmental review which would mitigate the negative environmental effects of the project, to the extent physically feasible

For reasons stated above, the Project is inconsistent with the Warner Center 2035 Plan. Thus, the Director's finding under LAMC 11.5.7(C)(2)(a) is unsupported by substantial evidence. Moreover, due to the failure of the City to disclose and analyze what revisions were to the Project, the Director's finding under both (a) and (b) are unsupported, especially because it is unclear whether the revised Project was adequately analyzed by the IS/MND <u>and</u> can still tier off of the earlier Programmatic EIR.

The City's Staff Report still fails to explain what those modifications (from before to after). (8/13/2020 CPC Staff Report, p. A-25, 26.)

Therefore, the Project fails to adequately comply with the Warner Center 2035 Plan's and the LAMC's required procedures for Project modification/revision.

II. THE PROJECT VIOLATES THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

a. Background Regarding the California Environmental Quality Act

The California Environmental Quality Act, Cal. Pub. Res. Code § 21100 *et seq* ("**CEQA**") has two basic purposes. First, CEQA is designed to inform decision makers and the public about the potential, significant environmental effects of a project. (14 California Code of Regulations ["**CCR**" or "**CEQA Guidelines**"] § 15002(a)(1).) "Its purpose is to inform the public and its responsible officials of the environmental consequences of their decisions *before* they are made. Thus, the EIR 'protects not only the environment but also informed self-government.' [Citation.]" (*Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal. 3d 553, 564.) The EIR has been described as "an environmental 'alarm bell' whose purpose it is to alert the public and its responsible officials to environmental changes before they have reached ecological points of no return." (*Berkeley Keep Jets Over the Bay v. Bd. of Port Comm'rs.* (2001) 91 Cal. App. 4th 1344, 1354 ["*Berkeley Jets"*]; *County of Inyo v. Yorty* (1973) 32 Cal.App.3d 795, 810.)

Second, CEQA directs public agencies to avoid or reduce environmental damage when possible by requiring alternatives or mitigation measures. CEQA Guidelines § 15002(a)(2) and (3). (*See also, Berkeley Jets,* 91 Cal. App. 4th 1344, 1354; *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553; *Laurel Heights Improvement Ass'n v. Regents of the University of California* (1988) 47 Cal.3d 376, 400.) The EIR serves to provide public agencies and the public in general with information about the effect

that a proposed project is likely to have on the environment and to "identify ways that environmental damage can be avoided or significantly reduced." (CEQA Guidelines § 15002(a)(2).) If the project has a significant effect on the environment, the agency may approve the project only upon finding that it has "eliminated or substantially lessened all significant effects on the environment where feasible" and that any unavoidable significant effects on the environment are "acceptable due to overriding concerns" specified in CEQA section 21081. (CEQA Guidelines § 15092(b)(2)(A–B).)

While the courts review an EIR using an "abuse of discretion" standard, "the reviewing court is not to 'uncritically rely on every study or analysis presented by a project proponent in support of its position.' A 'clearly inadequate or unsupported study is entitled to no judicial deference.'" (*Berkeley Jets*, 91 Cal.App.4th 1344, 1355 [emphasis added] [quoting *Laurel Heights,* 47 Cal.3d at 391, 409 fn. 12].) Drawing this line and determining whether the EIR complies with CEQA's information disclosure requirements presents a question of law subject to independent review by the courts. (*Sierra Club v. Cnty. of Fresno* (2018) 6 Cal. 5th 502, 515; *Madera Oversight Coalition, Inc. v. County of Madera* (2011) 199 Cal.App.4th 48, 102, 131.) As the court stated in *Berkeley Jets*, 91 Cal. App. 4th at 1355:

A prejudicial abuse of discretion occurs "if the failure to include relevant information precludes informed decision-making and informed public participation, thereby thwarting the statutory goals of the EIR process.

The preparation and circulation of an EIR is more than a set of technical hurdles for agencies and developers to overcome. The EIR's function is to ensure that government officials who decide to build or approve a project do so with a full understanding of the environmental consequences and, equally important, that the public is assured those consequences have been considered. For the EIR to serve these goals it must present information so that the foreseeable impacts of pursuing the project can be understood and weighed, and the public must be given an adequate opportunity to comment on that presentation before the decision to go forward is made. (*Communities for a Better Environment v. Richmond* (2010) 184 Cal. App. 4th 70, 80 [quoting *Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 449–450].)

b. Due to the COVID-19 Crisis, the City Must Adopt a Mandatory Finding of Significance that the Project May Cause a Substantial Adverse Effect on Human Beings and Mitigate COVID-19 Impacts

CEQA requires that an agency make a finding of significance when a Project may cause a significant adverse effect on human beings. PRC § 21083(b)(3); CEQA Guidelines § 15065(a)(4).

Public health risks related to construction work requires a mandatory finding of significance under CEQA. Construction work has been defined as a Lower to High-risk activity for COVID-19 spread by the Occupations Safety and Health Administration. Recently, several construction sites have been identified as sources of community spread of COVID-19.[1]

SWRCC recommended that the City adopt additional CEQA mitigation measures to mitigate public health risks from the Project's construction activities. SWRCC requests that the City require safe on-site construction work practices as well as training and certification for any construction workers on the Project Site.

The City, in its Technical Memorandum, dismiss the Commenters' request by stating that effects of the environment on a project are not subject to CEQA review, citing to *California Bldg. Indus. Assn. v. Bay Area Air Quality Mgmt. Dist.* (2015) 62 Cal.4th 369, 378. (8/13/2020 CPC Technical Memorandum, pdf pg. 29.) However, the City is wrong because COVID-19 is not an existing environmental hazard of the Project site. And even if it were an existing condition, but it is exacerbated by the Project construction itself, putting construction workers at grave risk.

Based upon SWRCC's experience with safe construction site work practices, SWRCC recommends that the Lead Agency require that while construction activities are being conducted at the Project Site:

<u>Construction Site Design:</u>

- The Project Site will be limited to two controlled entry points.
- Entry points will have temperature screening technicians taking temperature readings when the entry point is open.
- The Temperature Screening Site Plan shows details regarding access to the Project Site and Project Site logistics for conducting temperature screening.

[1] Santa Clara County Public Health (June 12, 2020) COVID-19 CASES AT CONSTRUCTION SITES HIGHLIGHT NEED FOR CONTINUED VIGILANCE IN SECTORS THAT HAVE REOPENED, *available at* https://www.sccgov.org/sites/covid19/Pages/press-release-06-12-2020-cases-at-construction-sites.aspx.

- A 48-hour advance notice will be provided to all trades prior to the first day of temperature screening.
- The perimeter fence directly adjacent to the entry points will be clearly marked indicating the appropriate 6-foot social distancing position for when you approach the screening area. Please reference the Apex temperature screening site map for additional details.
- There will be clear signage posted at the project site directing you through temperature screening.
- Provide hand washing stations throughout the construction site.

Testing Procedures:

- The temperature screening being used are non-contact devices.
- Temperature readings will not be recorded.
- Personnel will be screened upon entering the testing center and should only take 1-2 seconds per individual.
- Hard hats, head coverings, sweat, dirt, sunscreen or any other cosmetics must be removed on the forehead before temperature screening.
- Anyone who refuses to submit to a temperature screening or does not answer the health screening questions will be refused access to the Project Site.
- Screening will be performed at both entrances from 5:30 am to 7:30 am.; main gate [ZONE 1] and personnel gate [ZONE 2]
- After 7:30 am only the main gate entrance [ZONE 1] will continue to be used for temperature testing for anybody gaining entry to the project site such as returning personnel, deliveries, and visitors.

- If the digital thermometer displays a temperature reading above 100.0 degrees Fahrenheit, a second reading will be taken to verify an accurate reading.
- If the second reading confirms an elevated temperature, DHS will instruct the individual that he/she will not be allowed to enter the Project Site. DHS will also instruct the individual to promptly notify his/her supervisor and his/her human resources (HR) representative and provide them with a copy of Annex A.

Planning

- Require the development of an Infectious Disease Preparedness and Response Plan that will include basic infection prevention measures (requiring the use of personal protection equipment), policies and procedures for prompt identification and isolation of sick individuals, social distancing (prohibiting gatherings of no more than 10 people including all-hands meetings and all-hands lunches) communication and training and workplace controls that meet standards that may be promulgated by the Center for Disease Control, Occupational Safety and Health Administration, Cal/OSHA, California Department of Public Health or applicable local public health agencies.[2]

The United Brotherhood of Carpenters and Carpenters International Training Fund has developed COVID-19 Training and Certification to ensure that Carpenter union members and apprentices conduct safe work practices. The Agency should require that all construction workers undergo COVID-19 Training and Certification before being allowed to conduct construction activities at the Project Site.

c. The City Committed Prejudicial Error by Omitting Information Regarding the Project's Significant Impacts

[2] *See also* The Center for Construction Research and Training, North America's Building Trades Unions (April 27 2020) NABTU and CPWR COVIC-19 Standards for U.S Constructions Sites, *available at* https://www.cpwr.com/sites/default/files/NABTU_CPWR_Standards_COVID-19.pdf; Los Angeles County Department of Public Works (2020) Guidelines for Construction Sites During COVID-19 Pandemic, *available at* https://dpw.lacounty.gov/building-and-safety/docs/pw_guidelines-construction-sites.pdf.

Under PRC §21005, noncompliance with the information disclosure provisions of CEQA, "which precludes relevant information from being presented to the public agency," and noncompliance with the "substantive requirements" of CEQA may be found by a reviewing court to be a prejudicial abuse of discretion whether or not a different outcome would have resulted if the agency had complied. PRC §21005(a).

When applying PRC §21005 in deciding whether a failure to comply with CEQA is prejudicial error, courts do not determine whether the agency's ultimate decision would have been different if the law had been followed. Instead, they focus on whether the violation of CEQA prevented informed decision making or public participation. *Neighbors for Smart Rail v Exposition Metro Line Constr. Auth.* (2013) 57 Cal.4th 439 (plurality opinion); *Environmental Protection Info. Ctr. v Department of Forestry & Fire Protection* (2008) 44 Cal.4th 459, 485; *Poet, LLC v State Air Resources Bd.* (2017) 12 Cal.App.5th 52, 84.

First, the City abused its discretion by omitting information required by CEQA. The environmental analysis the City provided in the IS/MND and the Programmatic EIR omits information that establish that the Project will indeed have significant unmitigated impacts. In its August 19, 2020 letter, SWAPE provided scientific analysis, including modeling, that establish that the Project will have (1) significant construction and operational air quality emissions and impacts, (2) significant health risk impacts based on screening level assessment, and (3) significant greenhouse gas impacts. (Exhibit B, pp. 17-26.)

Next, the City's omission was prejudicial because "it deprived the public and decision makers of substantial relevant information about the project's likely adverse impacts." *Neighbors for Smart Rail, supra,* 57 Cal.4th at 463. Because of the omitted information, the City arrived at an erroneous conclusion that the Project will not have significant impacts. If such information had not been omitted, the City could not and would not have been able to adopt an IS/MND and would have had to prepare an EIR.

Based on the foregoing, the City committed prejudicial error by omitting critical information establishing that the Project will have significant impacts on the environment.

d. The Project Requires a Site Specific EIR, Not an IS/MND

1. <u>There is a Fair Argument That the Project May Have Significant Impacts Requiring an EIR</u>

A strong presumption in favor of requiring preparation of an EIR is built into CEQA. This presumption is reflected in what is known as the "fair argument" standard, under which an agency must prepare an EIR whenever substantial evidence in the record supports a fair argument that a project may have a significant effect on the environment. *Quail Botanical Gardens Found., Inc. v City of Encinitas* (1994) 29 CA4th 1597, 1602; *Friends of "B" St. v City of Hayward* (1980) 106 CA3d 988, 1002. See also *Georgetown Preservation Soc'y v County of El Dorado* (2018) 30 CA5th 358, 371 (citing this text).

The fair argument test stems from the statutory mandate that an EIR be prepared for any project that "may have a significant effect on the environment." Pub Res C §21151; *No Oil, Inc. v City of Los Angeles* (1974) 13 C3d 68, 75; *Jensen v City of Santa Rosa* (2018) 23 CA5th 877, 884. Under this test, if a proposed project is not exempt and *may* cause a significant effect on the environment, the lead agency *must* prepare an EIR. Pub Res C §§21100(a), 21151; 14 Cal Code Regs §15064(a)(1), (f)(1).

According to SWAPE's analysis in its August 19, 2020 letter, there is substantial evidence, based upon scientific modeling, that the Project will have significant environmental impacts, including (1) significant construction and operational air quality emissions and impacts, (2) significant health risk impacts based on screening level assessment, and (3) significant greenhouse gas impacts. (Exhibit B, pp. 17-26.)

SWAPE's analysis establishing significant air quality, health risk and greenhouse gas impacts is substantial evidence that there is a fair argument that the Project may have a significant impact on the environment. In conclusion, the City must prepare an EIR for the Project.

2. <u>The Project's Inconsistencies with the Warner Center Specific Plan and Project Revisions Render Tiering Improper</u>

As explained above, the Project must be consistent with the Warner Center 2035 Plan to rely on the prior Initial Study/Mitigated Negative Declaration (IS/MND) and tier off of a prior Programmatic EIR. (See IS/MND for De Soto/Burbank Master Plan Project [ENV-2017-1706-MND]; see Warner Center Regional Core Comprehensive Specific Plan EIR [ENV-2008-3471-EIR].)

Tiering is only appropriate when an EIR has been certified for a program, plan, policy, or ordinance under PRC § 21904(a) and the later project is consistent with the program, plan, policy, or ordinance pursuant to PRC § 21904(b)(1) and CEQA

Guidelines § 15152(d). Moreover, the later project must be consistent with the applicable general plan pursuant to PRC § 21904(b)(2) and CEQA Guidelines § 15152(e).

Here, not only is the Project inconsistent with the Warner Center 2035 Plan, it also has been revised which rendered it different from how it was envisioned and analyzed in the Programmatic EIR.

The City disputes Commenter's argument that the Project is inconsistent with the Warner Center 2035 Plan for the specific reasons as laid out in the previous sections. However, each of these points are explained in full above.

More critically, revisions were made to the Project which were not amply analyzed or discussed in the IS/MND and the 3/23/2020 LOD. Moreover, these revisions negate the City's ability to tier off of the earlier Programmatic EIR, which the City fails to explain fully.

With undeterminable revisions made for the Project, substantial evidence no longer supports the City's reliance on the IS/MND and the Programmatic EIR in approving the Project.

e. The MND is Inadequate and Violates CEQA

A negative declaration may be adopted only when there is no substantial evidence that the project will have a significant environmental effect. (14 Cal Code Regs §§15070, 15074(b).) For tiered negative declarations like the MND in this case, it is appropriate if the City determines that an environmental effect not examined in the prior EIR is identified, and the new effect is found to be less than significant <u>or</u> a new significant effect is identified, but the new significant effect can be mitigated to a less than significant level. (See 14 Cal Code Regs §§15070, 15152(d), (f).)

When a tiered negative declaration is adopted to address environmental impacts that were not examined in a prior EIR, the validity of the negative declaration is reviewed under the "fair argument" standard, where an EIR must be prepared if there is any substantial evidence in the record that would support a fair argument that the project might have a significant effect on the environment. (See *Center for Sierra Nev. Conserv. v County of El Dorado* (2012) 202 CA4th 1156, 1173.) Under the fair argument test, "deference to the agency's determination is not appropriate and its decision not to require an EIR can be upheld only when there is no credible evidence to the contrary." (*Sierra Club v. County of Sonoma* (1992) 6 Cal.App.4th 1307, 1318.)

As explained in full below, the MND identified many environmental impacts that were not previously analyzed in the PEIR. Moreover, there is substantial evidence that the Project will have significant impacts that have not been adequately analyzed in either the MND or the PEIR.

1. The MND Fails to Adequately Describe the Approved Project

It is well-established that "[a]n accurate, stable and finite project description is the sine qua non of an informative and legally sufficient EIR." *County of Inyo v. City of Los Angeles* (1977) 71 Cal.App.3d 185, 193. "A curtailed, enigmatic or unstable project description draws a red herring across the path of public input." *Id.* at p. 198.

The IS/MND describes the Project as including "the *phased* demolition of the Existing Buildings and other improvements and the *phased* construction of a mixed-use development consisting of ten new buildings (New Buildings), varying in height…." IS/MND, p. A-1 (emphasis added). The Project construction would be constructed in eight phases. *Id.*; also see IS/MND, pp. A-44~A-46. The 3/26/2020 LODs purported to approve the phased Project, as described in the IS/MND.

However, upon appeal by the applicant, the City revised the Project's phasing requirement to allow the applicant to disregard the strict phasing requirement and even allow concurrent development of multiple phases. 8/13/2020 CPC Staff Report, pp. A-12~13; 8/13/2020 CPC Technical Memorandum [deleting the last sentence of DIR Condition 2.d which would prohibit concurrent development of multiple phases].)

Now, the approved Project significantly deviates from the strictly phased version of the Project described in the IS/MND. As a result, the foundation upon which the IS/MND's conclusion of no significant impact has dissolved. Allowing concurrent development of multiple phasing could mean much more intense and concentrated air quality and transportation impacts as explained in full below. The impacts that the phasing could have dispersed temporally would now be allowed to be compounded.

Here, revising the Project to allow concurrent development of multiple phases of the Project is a significant project description problem with a significant consequence. Simply put, the approved Project was not analyzed in the IS/MND and the City is approving the Project based on an erroneous conclusion that the revised Project will have less than significant impacts.

2. The Approved Project Will Have More Intensified Air Quality and Transportation Impacts

As described above, the approved Project deviates from the Project described in the IS/MND because it effectively does away with the Project's construction phasing requirement.

As a result, the Project's air quality, health risk, greenhouse gas and even transportation impacts can now be infinitely intensified. The 8 Phases of construction described in the IS/MND contemplated the detailed grading and amount of soil to be exported for each phase. These activities are directly related to additional construction equipment being operated simultaneously and additional haul trucks being operated simultaneously, significantly intensifying the Project's impacts. However, the City never analyzed the impacts of allowing the concurrent development of multiple phases.

In conclusion, the City must analyze the significant impacts arising from the revision of the Project prior to approval.

3. The MND Fails to Adequately Analyze the Project's Air Quality, Health Risk and Greenhouse Gas Impacts

According to SWAPE, the MND fails to adequately evaluate the Project's air quality, health risk and greenhouse gas impacts. As a result, SWAPE concludes that the Project's emissions and health risk impacts associated with construction and operation are underestimated and inadequately addressed by the MND and the PEIR.

SWAPE's full analyses is attached hereto as Exhibit C and briefly summarized, that the MND:

- Incorrectly relies on and tiers off of the Warner Center 2035 Specific Plan's PEIR by (1) failing to adopt all air quality mitigation measures from the PEIR, (2) the PEIR fails to take into account project-specific information, (3) MND's own CalEEMod model demonstrates that the Project's VOC/ROG emissions also exceed thresholds of significance. Moreover, the MND's conclusion that the Project's operational air quality, construction-related GHG and operational GHG impacts will be significant and unavoidable is incorrect because it fails to adopt all feasible mitigation measures. (Exhibit C, pp. 1-3.)

- Used unsubstantiated input parameters to estimate project emissions. Specifically, based on the Project's air modeling, the MND underestimates emissions associated with Project activities by changing the model inputs. (Exhibit C, pp. 3-4.)
- Used incorrect land use types and sizes in the CalEEMod. SWAPE points out several ways the phases of the Project incorrectly describes the Project. In effect, the MND's modeling underestimated the floor surface area and failed to model the proposed land use types as described in the MND. (Exhibit C, pp. 5-7.)
- Failed to include the total amount of material export during Phases 1 through 8. As SWAPE describes in full in its letter, the MND underestimated the amount of material export required for Phases 3, 4, 7, and 8 by a total of 39,155 cy. As a result, the MND's models and analyses underestimate the Project's construction and should not be relied upon. (Exhibit C, pp. 7-8.)
- Made unsubstantiated changes to off-road construction equipment unit amounts and usage hours, which resulted in the underestimation of the Project's construction related emissions. (Exhibit C, p. 8.)
- Made unsubstantiated increases to the construction schedule, which underestimated the Project's construction-related emissions. (Exhibit C, p. 8.)
- Made unsubstantiated reductions to acres of grading, which resulted in the underestimation of the Project's construction-related emissions. (Exhibit C, p. 9.)
- Made unsubstantiated changes to architectural coating areas, underestimating the Project's emissions. (Exhibit C, pp. 9-10.)
- Incorrectly modeled tier 4 final mitigation, underestimating the Project's construction-related emissions. (Exhibit C, p. 11.)

- Incorrectly applied construction mitigation measures, underestimating the Project's construction-related emissions. (Exhibit C, pp. 12-13.)
- Included operational mitigation measures without substantiating why such measures were utilized in the CalEEMod model. (Exhibit C, pp. 13-16.)
- Failed to adequately evaluate diesel particulate matter health risk emissions with an unsupported conclusion that the Project will have less than a significant health risk impacts without conducting a quantified Health Risk Assessment ("HRA"). (Exhibit C, pp. 16-17.)
- Failed to adopt all feasible mitigation measures to reduce the Project's emissions, as listed in full in Exhibit C. (Exhibit C, pp. 17-25.)

In the 8/13/2020 CPC Technical Memorandum, the City, through its consultant ESA, dismissed SWAPE's arguments. SWAPE's reply to the City's responses to SWAPE's comments are being submitted separately, as Exhibit D.

Based on the foregoing, and based on the analyses provided in SWAPE's full report, the MND fails to adequately analyze, disclose and mitigate the Project's air quality, health risk and greenhouse gas impacts.

4. <u>The Project Fails to Adopt All Mitigation Measures from the Program EIR</u>

The LOD fails to require the Project to implement all of the mitigation measures adopted by the Program EIR. (6/18/2020 LOD.) The LOD excludes the following mitigation measures:

AQ-17-21

- The MND briefly notes that AQ-17 through 21 were not included because they were stated obligations of the City, not a private developer. (MND, B-22.) And the City merely reiterates this in response to these comments. (8/13/2020 CPC Technical Memorandum, pdf p. 72.) However, this reasoning is problematic since the mitigation measures that the developer must comply with

must be enforceable. The City fails to explain why mitigation measures were included in the PEIR in the first place if they would later be ignored anyway. If the Project wants to tier off of the PEIR, IT cannot exclude the mitigation measures adopted by the PEIR without adequate reasoning of why such exclusion was warranted.

CUL-1 and 2

- The MND fails to explain why CUL-1, 2 are inapplicable to the Project.
- The City responds that such mitigation measures were inapplicable because the Project site does not contain historical resources. (8/13/2020 CPC Technical Memorandum, pdf p. 73.) However, the City admits a cultural resources assessment was conducted anyway which undermines its own argument that these mitigation measures aren't applicable. (*Id.*) The City must revise the IS/MND to include these mitigation measures.

TRS-101

- The MND states that TRS-101 doesn't apply because the implementation of this mitigation measures is the City's responsibility. However, it is curious why such a mitigation measure was adopted in the PEIR in the first place if it would never be required to be implemented by each Project. Thus, without including all relevant mitigation measures adopted by the PEIR, the Project's MND cannot tier off of the PEIR without violating CEQA.
- The City's later changes its position by stating that the mobility fees allow the City to implement the Neighborhood Protection Program through the Specific Plan. (8/13/2020 CPC Technical Memorandum, pdf p. 73.) However, the City must prove how such Program will be implemented for the Project.

As explained above, the MND fails to adequately explain why the listed mitigation measures were not included in the MND for the Project.

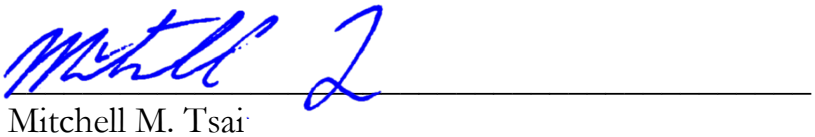
f. The Project Facially Does Not Qualify for a Statutory Exemption from CEQA

The 3/23/2020 LOD mistakenly cited to California Government Code Section 65457 as "California Public Resources Code (California Environmental Quality Act) in an effort to claim an exemption from CEQA. The Staff Report admits that the Project is not subject to a statutory exemption and states that the Project documents will be reflected to not include any mention of a CEQA exemption.

III. CONCLUSION

For aforementioned reasons, Commenter requests that the City grant its appeal and send the Project back to be re-analyzed and considered for its consistency with the Warner Center 2035 Plan and compliance with CEQA.

Regards,



Mitchell M. Tsai

Attorneys for Southwest Regional Council of Carpenters

Matthew F. Hagemann, P.G. C.Hg, QSD, QSP, Curriculum Vitae (Exhibit A);

Paul Rosenfeld, Ph.D., Curriculum Vitae (Exhibit B); and

Letter from Hagemann and Rosenfeld from SWAPE to Mitchell M. Tsai, Mitchell M. Tsai, Attorney At Law re: Comments on the De Soto/Burbank Master Plan Project (Case No. ENV-2017-1706-MND) August 19, 2020) (Exhibit C);

Letter from Hagemann and Rosenfeld from SWAPE to Mitchell M. Tsai, Mitchell M. Tsai, Attorney At Law re: Comments on the De Soto/Burbank Master Plan Project (Case No. ENV-2017-1706-MND) August 27, 2020) (Exhibit D);

EXHIBIT A

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

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Education:

M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.
B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

Professional Certifications:

California Professional Geologist
California Certified Hydrogeologist
Qualified SWPPP Developer and Practitioner

Professional Experience:

Matt has 30 years of experience in environmental policy, contaminant assessment and remediation, stormwater compliance, and CEQA review. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) and directed efforts to improve hydrogeologic characterization and water quality monitoring. For the past 15 years, as a founding partner with SWAPE, Matt has developed extensive client relationships and has managed complex projects that include consultation as an expert witness and a regulatory specialist, and a manager of projects ranging from industrial stormwater compliance to CEQA review of impacts from hazardous waste, air quality and greenhouse gas emissions.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2104, 2017;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

Senior Regulatory and Litigation Support Analyst:

With SWAPE, Matt's responsibilities have included:

- Lead analyst and testifying expert in the review of over 300 environmental impact reports and negative declarations since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at more than 150 industrial facilities.
- Expert witness on numerous cases including, for example, perfluorooctanoic acid (PFOA) contamination of groundwater, MTBE litigation, air toxins at hazards at a school, CERCLA compliance in assessment and remediation, and industrial stormwater contamination.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.

With Komex H2O Science Inc., Matt's duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.
- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

Executive Director:

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

Hydrogeology:

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted

public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nation-wide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

Policy:

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9.

Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, Oxygenates in Water: Critical Information and Research Needs.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific

principles into the policy-making process.
- Established national protocol for the peer review of scientific documents.

Geology:

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

Teaching:

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

Matt is currently a part time geology instructor at Golden West College in Huntington Beach, California where he taught from 2010 to 2014 and in 2017.

Invited Testimony, Reports, Papers and Presentations:

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

Hagemann, M.F., 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Coloradao.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

Hagemann, M.F., 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal repesentatives, Parker, AZ.

Hagemann, M.F., 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

Hagemann, M.F., 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

Hagemann, M.F., 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

Hagemann, M.F., 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

Hagemann, M.F., 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

Hagemann, M.F., 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.

Hagemann, M.F., 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

Hagemann, M.F., 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

Hagemann, M.F., and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F**. 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

Hagemann, M.F., 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

Hagemann, M.F., 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

Hagemann, M.F., and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

Hagemann, M.F., Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

Hagemann, M. F., Fukanaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

Hagemann, M.F., 1994. Groundwater Characterization and Cleanup at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

Hagemann, M.F. and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

Hagemann, M.F., 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.

Hagemann, M.F., 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

Other Experience:

Selected as subject matter expert for the California Professional Geologist licensing examinations, 2009-2011.

EXHIBIT B

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

SOIL WATER AIR PROTECTION ENTERPRISE
2656 29th Street, Suite 201
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Paul Rosenfeld, Ph.D.

Chemical Fate and Transport & Air Dispersion Modeling

Principal Environmental Chemist

Risk Assessment & Remediation Specialist

Education

Ph.D. Soil Chemistry, University of Washington, 1999. Dissertation on volatile organic compound filtration.

M.S. Environmental Science, U.C. Berkeley, 1995. Thesis on organic waste economics.

B.A. Environmental Studies, U.C. Santa Barbara, 1991. Thesis on wastewater treatment.

Professional Experience

Dr. Rosenfeld has over 25 years' experience conducting environmental investigations and risk assessments for evaluating impacts to human health, property, and ecological receptors. His expertise focuses on the fate and transport of environmental contaminants, human health risk, exposure assessment, and ecological restoration. Dr. Rosenfeld has evaluated and modeled emissions from unconventional oil drilling operations, oil spills, landfills, boilers and incinerators, process stacks, storage tanks, confined animal feeding operations, and many other industrial and agricultural sources. His project experience ranges from monitoring and modeling of pollution sources to evaluating impacts of pollution on workers at industrial facilities and residents in surrounding communities.

Dr. Rosenfeld has investigated and designed remediation programs and risk assessments for contaminated sites containing lead, heavy metals, mold, bacteria, particulate matter, petroleum hydrocarbons, chlorinated solvents, pesticides, radioactive waste, dioxins and furans, semi- and volatile organic compounds, PCBs, PAHs, perchlorate, asbestos, per- and poly-fluoroalkyl substances (PFOA/PFOS), unusual polymers, fuel oxygenates (MTBE), among other pollutants. Dr. Rosenfeld also has experience evaluating greenhouse gas emissions from various projects and is an expert on the assessment of odors from industrial and agricultural sites, as well as the evaluation of odor nuisance impacts and technologies for abatement of odorous emissions. As a principal scientist at SWAPE, Dr. Rosenfeld directs air dispersion modeling and exposure assessments. He has served as an expert witness and testified about pollution sources causing nuisance and/or personal injury at dozens of sites and has testified as an expert witness on more than ten cases involving exposure to air contaminants from industrial sources.

Professional History:

Soil Water Air Protection Enterprise (SWAPE); 2003 to present; Principal and Founding Partner
UCLA School of Public Health; 2007 to 2011; Lecturer (Assistant Researcher)
UCLA School of Public Health; 2003 to 2006; Adjunct Professor
UCLA Environmental Science and Engineering Program; 2002-2004; Doctoral Intern Coordinator
UCLA Institute of the Environment, 2001-2002; Research Associate
Komex H_2O Science, 2001 to 2003; Senior Remediation Scientist
National Groundwater Association, 2002-2004; Lecturer
San Diego State University, 1999-2001; Adjunct Professor
Anteon Corp., San Diego, 2000-2001; Remediation Project Manager
Ogden (now Amec), San Diego, 2000-2000; Remediation Project Manager
Bechtel, San Diego, California, 1999 – 2000; Risk Assessor
King County, Seattle, 1996 – 1999; Scientist
James River Corp., Washington, 1995-96; Scientist
Big Creek Lumber, Davenport, California, 1995; Scientist
Plumas Corp., California and USFS, Tahoe 1993-1995; Scientist
Peace Corps and World Wildlife Fund, St. Kitts, West Indies, 1991-1993; Scientist

Publications:

Remy, L.L., Clay T., Byers, V., **Rosenfeld P. E.** (2019) Hospital, Health, and Community Burden After Oil Refinery Fires, Richmond, California 2007 and 2012. *Environmental Health.* 18:48

Simons, R.A., Seo, Y. **Rosenfeld, P**., (2015) Modeling the Effect of Refinery Emission On Residential Property Value. Journal of Real Estate Research. 27(3):321-342

Chen, J. A, Zapata A. R., Sutherland A. J., Molmen, D.R., Chow, B. S., Wu, L. E., **Rosenfeld, P. E.,** Hesse, R. C., (2012) Sulfur Dioxide and Volatile Organic Compound Exposure To A Community In Texas City Texas Evaluated Using Aermod and Empirical Data. *American Journal of Environmental Science*, 8(6), 622-632.

Rosenfeld, P.E. & Feng, L. (2011). *The Risks of Hazardous Waste.* Amsterdam: Elsevier Publishing.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2011). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Agrochemical Industry*, Amsterdam: Elsevier Publishing.

Gonzalez, J., Feng, L., Sutherland, A., Waller, C., Sok, H., Hesse, R., **Rosenfeld, P.** (2010). PCBs and Dioxins/Furans in Attic Dust Collected Near Former PCB Production and Secondary Copper Facilities in Sauget, IL. *Procedia Environmental Sciences*. 113–125.

Feng, L., Wu, C., Tam, L., Sutherland, A.J., Clark, J.J., **Rosenfeld, P.E.** (2010). Dioxin and Furan Blood Lipid and Attic Dust Concentrations in Populations Living Near Four Wood Treatment Facilities in the United States. *Journal of Environmental Health*. 73(6), 34-46.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2010). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Wood and Paper Industries.* Amsterdam: Elsevier Publishing.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2009). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Petroleum Industry*. Amsterdam: Elsevier Publishing.

Wu, C., Tam, L., Clark, J., **Rosenfeld, P**. (2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. *WIT Transactions on Ecology and the Environment, Air Pollution,* 123 (17), 319-327.

Tam L. K.., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008). A Statistical Analysis Of Attic Dust And Blood Lipid Concentrations Of Tetrachloro-p-Dibenzodioxin (TCDD) Toxicity Equivalency Quotients (TEQ) In Two Populations Near Wood Treatment Facilities. *Organohalogen Compounds*, 70, 002252-002255.

Tam L. K.., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008). Methods For Collect Samples For Assessing Dioxins And Other Environmental Contaminants In Attic Dust: A Review. *Organohalogen Compounds*, 70, 000527-000530.

Hensley, A.R. A. Scott, J. J. J. Clark, **Rosenfeld, P.E.** (2007). Attic Dust and Human Blood Samples Collected near a Former Wood Treatment Facility. *Environmental Research*. 105, 194-197.

Rosenfeld, P.E., J. J. J. Clark, A. R. Hensley, M. Suffet. (2007). The Use of an Odor Wheel Classification for Evaluation of Human Health Risk Criteria for Compost Facilities. *Water Science & Technology* 55(5), 345-357.

Rosenfeld, P. E., M. Suffet. (2007). The Anatomy Of Odour Wheels For Odours Of Drinking Water, Wastewater, Compost And The Urban Environment. *Water Science & Technology* 55(5), 335-344.

Sullivan, P. J. Clark, J.J.J., Agardy, F. J., **Rosenfeld, P.E.** (2007). *Toxic Legacy, Synthetic Toxins in the Food, Water, and Air in American Cities.* Boston Massachusetts: Elsevier Publishing

Rosenfeld, P.E., and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash. *Water Science and Technology*. 49(9),171-178.

Rosenfeld P. E., J.J. Clark, I.H. (Mel) Suffet (2004). The Value of An Odor-Quality-Wheel Classification Scheme For The Urban Environment. *Water Environment Federation's Technical Exhibition and Conference (WEFTEC) 2004.* New Orleans, October 2-6, 2004.

Rosenfeld, P.E., and Suffet, I.H. (2004). Understanding Odorants Associated With Compost, Biomass Facilities, and the Land Application of Biosolids. *Water Science and Technology*. 49(9), 193-199.

Rosenfeld, P.E., and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash, *Water Science and Technology*, 49(9), 171-178.

Rosenfeld, P. E., Grey, M. A., Sellew, P. (2004). Measurement of Biosolids Odor and Odorant Emissions from Windrows, Static Pile and Biofilter. *Water Environment Research*. 76(4), 310-315.

Rosenfeld, P.E., Grey, M and Suffet, M. (2002). Compost Demonstration Project, Sacramento California Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Integrated Waste Management Board Public Affairs Office*, Publications Clearinghouse (MS–6), Sacramento, CA Publication #442-02-008.

Rosenfeld, P.E., and C.L. Henry. (2001). Characterization of odor emissions from three different biosolids. *Water Soil and Air Pollution*. 127(1-4), 173-191.

Rosenfeld, P.E., and Henry C. L., (2000). Wood ash control of odor emissions from biosolids application. *Journal of Environmental Quality.* 29, 1662-1668.

Rosenfeld, P.E., C.L. Henry and D. Bennett. (2001). Wastewater dewatering polymer affect on biosolids odor emissions and microbial activity. *Water Environment Research*. 73(4), 363-367.

Rosenfeld, P.E., and C.L. Henry. (2001). Activated Carbon and Wood Ash Sorption of Wastewater, Compost, and Biosolids Odorants. *Water Environment Research*, 73, 388-393.

Rosenfeld, P.E., and Henry C. L., (2001). High carbon wood ash effect on biosolids microbial activity and odor. *Water Environment Research*. 131(1-4), 247-262.

Chollack, T. and **P. Rosenfeld. (**1998). Compost Amendment Handbook For Landscaping. Prepared for and distributed by the City of Redmond, Washington State.

Rosenfeld, P. E. (1992). The Mount Liamuiga Crater Trail. *Heritage Magazine of St. Kitts*, 3(2).

Rosenfeld, P. E. (1993). High School Biogas Project to Prevent Deforestation On St. Kitts. *Biomass Users Network*, 7(1).

Rosenfeld, P. E. (1998). Characterization, Quantification, and Control of Odor Emissions From Biosolids Application To Forest Soil. Doctoral Thesis. University of Washington College of Forest Resources.

Rosenfeld, P. E. (1994). Potential Utilization of Small Diameter Trees on Sierra County Public Land. Masters thesis reprinted by the Sierra County Economic Council. Sierra County, California.

Rosenfeld, P. E. (1991). How to Build a Small Rural Anaerobic Digester & Uses Of Biogas In The First And Third World. Bachelors Thesis. University of California.

Presentations:

Rosenfeld, P.E., Sutherland, A; Hesse, R.; Zapata, A. (October 3-6, 2013). Air dispersion modeling of volatile organic emissions from multiple natural gas wells in Decatur, TX. *44th Western Regional Meeting, American Chemical Society.* Lecture conducted from Santa Clara, CA.

Sok, H.L.; Waller, C.C.; Feng, L.; Gonzalez, J.; Sutherland, A.J.; Wisdom-Stack, T.; Sahai, R.K.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Atrazine: A Persistent Pesticide in Urban Drinking Water. *Urban Environmental Pollution*. Lecture conducted from Boston, MA.

Feng, L.; Gonzalez, J.; Sok, H.L.; Sutherland, A.J.; Waller, C.C.; Wisdom-Stack, T.; Sahai, R.K.; La, M.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Bringing Environmental Justice to East St. Louis, Illinois. *Urban Environmental Pollution.* Lecture conducted from Boston, MA.

Rosenfeld, P.E. (April 19-23, 2009). Perfluoroctanoic Acid (PFOA) and Perfluoroactane Sulfonate (PFOS) Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*, Lecture conducted from Tuscon, AZ.

Rosenfeld, P.E. (April 19-23, 2009). Cost to Filter Atrazine Contamination from Drinking Water in the United States" Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*. Lecture conducted from Tuscon, AZ.

Wu, C., Tam, L., Clark, J., **Rosenfeld, P**. (20-22 July, 2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. Brebbia, C.A. and Popov, V., eds., *Air Pollution XVII: Proceedings of the Seventeenth International Conference on Modeling, Monitoring and Management of Air Pollution*. Lecture conducted from Tallinn, Estonia.

Rosenfeld, P. E. (October 15-18, 2007). Moss Point Community Exposure To Contaminants From A Releasing Facility. *The 23rd Annual International Conferences on Soils Sediment and Water.* Platform lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld, P. E. (October 15-18, 2007). The Repeated Trespass of Tritium-Contaminated Water Into A Surrounding Community Form Repeated Waste Spills From A Nuclear Power Plant. *The 23rd Annual International Conferences on Soils Sediment and Water*. Platform lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld, P. E. (October 15-18, 2007). Somerville Community Exposure To Contaminants From Wood Treatment Facility Emissions. The *23rd Annual International Conferences on Soils Sediment and Water*. Lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld P. E. (March 2007). Production, Chemical Properties, Toxicology, & Treatment Case Studies of 1,2,3-Trichloropropane (TCP). *The Association for Environmental Health and Sciences (AEHS) Annual Meeting*. Lecture conducted from San Diego, CA.

Rosenfeld P. E. (March 2007). Blood and Attic Sampling for Dioxin/Furan, PAH, and Metal Exposure in Florala, Alabama. *The AEHS Annual Meeting.* Lecture conducted from San Diego, CA.

Hensley A.R., Scott, A., **Rosenfeld P.E.,** Clark, J.J.J. (August 21 – 25, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006*. Lecture conducted from Radisson SAS Scandinavia Hotel in Oslo Norway.

Hensley A.R., Scott, A., **Rosenfeld P.E.,** Clark, J.J.J. (November 4-8, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *APHA 134 Annual Meeting & Exposition.* Lecture conducted from Boston Massachusetts.

Paul Rosenfeld Ph.D. (October 24-25, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. Mealey's C8/PFOA. *Science, Risk & Litigation Conference.* Lecture conducted from The Rittenhouse Hotel, Philadelphia, PA.

Paul Rosenfeld Ph.D. (September 19, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, *Toxicology and Remediation PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel, Irvine California.

Paul Rosenfeld Ph.D. (September 19, 2005). Fate, Transport, Toxicity, And Persistence of 1,2,3-TCP. *PEMA Emerging Contaminant Conference.* Lecture conducted from Hilton Hotel in Irvine, California.

Paul Rosenfeld Ph.D. (September 26-27, 2005). Fate, Transport and Persistence of PDBEs. *Mealey's Groundwater Conference.* Lecture conducted from Ritz Carlton Hotel, Marina Del Ray, California.

Paul Rosenfeld Ph.D. (June 7-8, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. *International Society of Environmental Forensics: Focus On Emerging Contaminants*. Lecture conducted from Sheraton Oceanfront Hotel, Virginia Beach, Virginia.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Fate Transport, Persistence and Toxicology of PFOA and Related Perfluorochemicals. *2005 National Groundwater Association Ground Water And Environmental Law Conference*. Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, Toxicology and Remediation. *2005 National Groundwater Association Ground Water and Environmental Law Conference.* Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. and Rob Hesse R.G. (May 5-6, 2004). Tert-butyl Alcohol Liability and Toxicology, A National Problem and Unquantified Liability. *National Groundwater Association. Environmental Law Conference*. Lecture conducted from Congress Plaza Hotel, Chicago Illinois.

Paul Rosenfeld, Ph.D. (March 2004). Perchlorate Toxicology. *Meeting of the American Groundwater Trust*. Lecture conducted from Phoenix Arizona.

Hagemann, M.F., **Paul Rosenfeld, Ph.D.** and Rob Hesse (2004). Perchlorate Contamination of the Colorado River. *Meeting of tribal representatives*. Lecture conducted from Parker, AZ.

Paul Rosenfeld, Ph.D. (April 7, 2004). A National Damage Assessment Model For PCE and Dry Cleaners. *Drycleaner Symposium. California Ground Water Association*. Lecture conducted from Radison Hotel, Sacramento, California.

Rosenfeld, P. E., Grey, M., (June 2003) Two stage biofilter for biosolids composting odor control. *Seventh International In Situ And On Site Bioremediation Symposium Battelle Conference* Orlando, FL.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. (February 20-21, 2003) Understanding Historical Use, Chemical Properties, Toxicity and Regulatory Guidance of 1,4 Dioxane. *National Groundwater Association. Southwest Focus Conference. Water Supply and Emerging Contaminants*.. Lecture conducted from Hyatt Regency Phoenix Arizona.

Paul Rosenfeld, Ph.D. (February 6-7, 2003). Underground Storage Tank Litigation and Remediation. *California CUPA Forum*. Lecture conducted from Marriott Hotel, Anaheim California.

Paul Rosenfeld, Ph.D. (October 23, 2002) Underground Storage Tank Litigation and Remediation. *EPA Underground Storage Tank Roundtable*. Lecture conducted from Sacramento California.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Understanding Odor from Compost, *Wastewater and Industrial Processes. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Using High Carbon Wood Ash to Control Compost Odor. *Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Grey, M. A. (September 22-24, 2002). Biocycle Composting For Coastal Sage Restoration. *Northwest Biosolids Management Association*. Lecture conducted from Vancouver Washington..

Rosenfeld, P.E. and Grey, M. A. (November 11-14, 2002). Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Soil Science Society Annual Conferenc*e. Lecture conducted from Indianapolis, Maryland.

Rosenfeld. P.E. (September 16, 2000). Two stage biofilter for biosolids composting odor control. *Water Environment Federation.* Lecture conducted from Anaheim California.

Rosenfeld. P.E. (October 16, 2000). Wood ash and biofilter control of compost odor. *Biofest.* Lecture conducted from Ocean Shores, California.

Rosenfeld, P.E. (2000). Bioremediation Using Organic Soil Amendments. *California Resource Recovery Association*. Lecture conducted from Sacramento California.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. *Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings*. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., and C.L. Henry. (1999). An evaluation of ash incorporation with biosolids for odor reduction. *Soil Science Society of America*. Lecture conducted from Salt Lake City Utah.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Comparison of Microbial Activity and Odor Emissions from Three Different Biosolids Applied to Forest Soil. *Brown and Caldwell.* Lecture conducted from Seattle Washington.

Rosenfeld, P.E., C.L. Henry. (1998). Characterization, Quantification, and Control of Odor Emissions from Biosolids Application To Forest Soil. *Biofest.* Lecture conducted from Lake Chelan, Washington.

Rosenfeld, P.E, C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., C.L. Henry, R. B. Harrison, and R. Dills. (1997). Comparison of Odor Emissions From Three Different Biosolids Applied to Forest Soil. *Soil Science Society of America*. Lecture conducted from Anaheim California.

Teaching Experience:

UCLA Department of Environmental Health (Summer 2003 through 20010) Taught Environmental Health Science 100 to students, including undergrad, medical doctors, public health professionals and nurses. Course focused on the health effects of environmental contaminants.

National Ground Water Association, Successful Remediation Technologies. Custom Course in Sante Fe, New Mexico. May 21, 2002. Focused on fate and transport of fuel contaminants associated with underground storage tanks.

National Ground Water Association; Successful Remediation Technologies Course in Chicago Illinois. April 1, 2002. Focused on fate and transport of contaminants associated with Superfund and RCRA sites.

California Integrated Waste Management Board, April and May, 2001. Alternative Landfill Caps Seminar in San Diego, Ventura, and San Francisco. Focused on both prescriptive and innovative landfill cover design.

UCLA Department of Environmental Engineering, February 5, 2002. Seminar on Successful Remediation Technologies focusing on Groundwater Remediation.

University Of Washington, Soil Science Program, Teaching Assistant for several courses including: Soil Chemistry, Organic Soil Amendments, and Soil Stability.

U.C. Berkeley, Environmental Science Program Teaching Assistant for Environmental Science 10.

Academic Grants Awarded:

California Integrated Waste Management Board. $41,000 grant awarded to UCLA Institute of the Environment. Goal: To investigate effect of high carbon wood ash on volatile organic emissions from compost. 2001.

Synagro Technologies, Corona California: $10,000 grant awarded to San Diego State University.
Goal: investigate effect of biosolids for restoration and remediation of degraded coastal sage soils. 2000.

King County, Department of Research and Technology, Washington State. $100,000 grant awarded to University of Washington: Goal: To investigate odor emissions from biosolids application and the effect of polymers and ash on VOC emissions. 1998.

Northwest Biosolids Management Association, Washington State. $20,000 grant awarded to investigate effect of polymers and ash on VOC emissions from biosolids. 1997.

James River Corporation, Oregon: $10,000 grant was awarded to investigate the success of genetically engineered Poplar trees with resistance to round-up. 1996.

United State Forest Service, Tahoe National Forest: $15,000 grant was awarded to investigating fire ecology of the Tahoe National Forest. 1995.

Kellogg Foundation, Washington D.C. $500 grant was awarded to construct a large anaerobic digester on St. Kitts in West Indies. 1993

Deposition and/or Trial Testimony:

In the United States District Court For The District of New Jersey
Duarte et al, *Plaintiffs,* vs. United States Metals Refining Company et. al. *Defendant.*
Case No.: 2:17-cv-01624-ES-SCM
Rosenfeld Deposition. 6-7-2019

In the United States District Court of Southern District of Texas Galveston Division
M/T Carla Maersk, *Plaintiffs,* vs. Conti 168., Schiffahrts-GMBH & Co. Bulker KG MS "Conti Perdido" *Defendant.*
Case No.: 3:15-CV-00106 consolidated with 3:15-CV-00237
Rosenfeld Deposition. 5-9-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica
Carole-Taddeo-Bates et al., vs. Ifran Khan et al., Defendants
Case No.: No. BC615636
Rosenfeld Deposition, 1-26-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica
The San Gabriel Valley Council of Governments et al. vs El Adobe Apts. Inc. et al., Defendants
Case No.: No. BC646857
Rosenfeld Deposition, 10-6-2018; Trial 3-7-19

In United States District Court For The District of Colorado
Bells et al. Plaintiff vs. The 3M Company et al., Defendants
Case: No 1:16-cv-02531-RBJ
Rosenfeld Deposition, 3-15-2018 and 4-3-2018

In The District Court Of Regan County, Texas, 112th Judicial District
Phillip Bales et al., Plaintiff vs. Dow Agrosciences, LLC, et al., Defendants
Cause No 1923
Rosenfeld Deposition, 11-17-2017

In The Superior Court of the State of California In And For The County Of Contra Costa
Simons et al., Plaintiffs vs. Chevron Corporation, et al., Defendants
Cause No C12-01481
Rosenfeld Deposition, 11-20-2017

In The Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois
Martha Custer et al., Plaintiff vs. Cerro Flow Products, Inc., Defendants
Case No.: No. 0i9-L-2295
Rosenfeld Deposition, 8-23-2017

In The Superior Court of the State of California, For The County of Los Angeles
Warrn Gilbert and Penny Gilber, Plaintiff vs. BMW of North America LLC
Case No.: LC102019 (c/w BC582154)
Rosenfeld Deposition, 8-16-2017, Trail 8-28-2018

In the Northern District Court of Mississippi, Greenville Division
Brenda J. Cooper, et al., *Plaintiffs,* vs. Meritor Inc., et al., *Defendants*
Case Number: 4:16-cv-52-DMB-JVM
Rosenfeld Deposition: July 2017

In The Superior Court of the State of Washington, County of Snohomish
Michael Davis and Julie Davis et al., Plaintiff vs. Cedar Grove Composting Inc., Defendants
Case No.: No. 13-2-03987-5
Rosenfeld Deposition, February 2017
Trial, March 2017

In The Superior Court of the State of California, County of Alameda
Charles Spain., Plaintiff vs. Thermo Fisher Scientific, et al., Defendants
Case No.: RG14711115
Rosenfeld Deposition, September 2015

In The Iowa District Court In And For Poweshiek County
Russell D. Winburn, et al., Plaintiffs vs. Doug Hoksbergen, et al., Defendants
Case No.: LALA002187
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Jerry Dovico, et al., Plaintiffs vs. Valley View Sine LLC, et al., Defendants
Law No,: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Doug Pauls, et al.,, et al., Plaintiffs vs. Richard Warren, et al., Defendants
Law No,: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Circuit Court of Ohio County, West Virginia
Robert Andrews, et al. v. Antero, et al.
Civil Action N0. 14-C-30000
Rosenfeld Deposition, June 2015

In The Third Judicial District County of Dona Ana, New Mexico
Betty Gonzalez, et al. Plaintiffs vs. Del Oro Dairy, Del Oro Real Estate LLC, Jerry Settles and Deward DeRuyter, Defendants
Rosenfeld Deposition: July 2015

In The Iowa District Court For Muscatine County
Laurie Freeman et. al. Plaintiffs vs. Grain Processing Corporation, Defendant
Case No 4980
Rosenfeld Deposition: May 2015

In the Circuit Court of the 17th Judicial Circuit, in and For Broward County, Florida
Walter Hinton, et. al. Plaintiff, vs. City of Fort Lauderdale, Florida, a Municipality, Defendant.
Case Number CACE07030358 (26)
Rosenfeld Deposition: December 2014

In the United States District Court Western District of Oklahoma
Tommy McCarty, et al., Plaintiffs, v. Oklahoma City Landfill, LLC d/b/a Southeast Oklahoma City Landfill, et al. Defendants.
Case No. 5:12-cv-01152-C
Rosenfeld Deposition: July 2014

In the County Court of Dallas County Texas
Lisa Parr et al, *Plaintiff*, vs. Aruba et al, *Defendant.*
Case Number cc-11-01650-E
Rosenfeld Deposition: March and September 2013
Rosenfeld Trial: April 2014

In the Court of Common Pleas of Tuscarawas County Ohio
John Michael Abicht, et al., *Plaintiffs,* vs. Republic Services, Inc., et al., *Defendants*
Case Number: 2008 CT 10 0741 (Cons. w/ 2009 CV 10 0987)
Rosenfeld Deposition: October 2012

In the United States District Court of Southern District of Texas Galveston Division
Kyle Cannon, Eugene Donovan, Genaro Ramirez, Carol Sassler, and Harvey Walton, each Individually and on behalf of those similarly situated, *Plaintiffs,* vs. BP Products North America, Inc., *Defendant.*
Case 3:10-cv-00622
Rosenfeld Deposition: February 2012
Rosenfeld Trial: April 2013

In the Circuit Court of Baltimore County Maryland
Philip E. Cvach, II et al., *Plaintiffs* vs. Two Farms, Inc. d/b/a Royal Farms, Defendants
Case Number: 03-C-12-012487 OT
Rosenfeld Deposition: September 2013

EXHIBIT C

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August 19, 2020

Mitchell M. Tsai
155 South El Molino Avenue Suite 104
Pasadena, CA 91101

Subject: Comments on the De Soto/Burbank Master Plan Project (Case No. ENV-2017-1706-MND)

Dear Mr. Tsai,

We have reviewed the December 2019 Tiered Draft Initial Study/Mitigated Negative Declaration ("IS/MND") and the June 2012 Warner Center 2035 Specific Plan ("WC2035 SP") for the De Soto/Burbank Master Plan Project ("Project") located in the City of Van Nuys ("City"). The Project proposes to demolish the existing 12 low-rise commercial buildings, totaling 340,339 SF, as well as 1,198 parking spaces. In addition, the Project proposes to construct 10 new buildings, including 1,009 multi-family units and 168 condominiums, for a total of 1,175,513-SF of residential space, as well as 1,140,746-SF of office space, 7,731-SF of restaurant space, 15,741-SF of retail space, 35,311-SF of restaurant and/or retail space, 26,762-SF of office and/or retail space, 6,068-SF of community space, and 157,535-SF of hotel space (228 rooms), for a total of 1,458,755-SF of non-residential space. The Project also proposes to construct 5,548 subterranean parking spaces on the 24.4-acre site.

Our review concludes that the IS/MND and WC2035 fail to adequately evaluate the Project's air quality, health risk, and greenhouse gas impacts. As a result, emissions and health risk impacts associated with construction and operation of the proposed Project are underestimated and inadequately addressed. An updated CEQA evaluation should be prepared to correctly assess and mitigate the potential air quality, health risk, and greenhouse gas impacts that the project may have on the surrounding environment.

Air Quality & Greenhouse Gas

Incorrect Reliance on the Warner Center 2035 Specific Plan

The IS/MND claims that some of the proposed Project's impacts were previously analyzed by the WC2035 SP. Specifically, according to the IS/MND,

> "The environmental review for the proposed Project, as presented in this Tiered IS, will rely on, and tier off of, the WC2035 Plan FEIR with respect to the following:
>
> - A discussion of general background and setting information for environmental topic areas.
> - Overall growth-related issues, including issues that are not specific to the proposed Project.
> - Environmental topics and issues that were adequately addressed or otherwise evaluated in
> - sufficient detail in the WC2035 Plan FEIR.
> - Mitigation measures identified in the WC2035 Plan EIR that apply in whole or in part to the

- proposed Project.
- Cumulative impacts" (p. 3-4).

As a result, the Project's operational air quality emissions and greenhouse gas emissions ("GHG") were not evaluated in the IS/MND. Regarding the Project's operational emissions, the IS/MND states:

> "The WC2035 Plan FEIR found that implementation of the WC2035 Plan would decrease emission of VOC, CO, NOX and sulfur oxide (SOX) emissions due to statewide regulations to control emissions of these criteria pollutants. However, buildout under the WC2035 Plan would result in potentially significant long-term operational impacts from PM10 and PM2.5 emissions due to increased vehicular traffic and associated emissions. These operational air quality impacts with respect to PM10 and PM2.5 emissions would be significant and unavoidable" (p. B-21).

Furthermore, regarding the impact of the Project's construction GHG emissions, the IS/MND states:

> "[A] second-tier CEQA document is not required to re-analyze a significant impact that is not susceptible to being mitigated to a level of insignificance. Cal. Pub. Res. Code § 21068.5; State CEQA Guidelines § 15152(f). The WC2035 Plan FEIR concluded that buildout under the WC2035 Plan would have a significant GHG impact with respect to construction emissions, and that this significant impact could not be mitigated to a level of insignificance and was therefore unavoidable. Accordingly, the Project's construction-related GHG impact was adequately addressed in the WC2035 Plan FEIR" (pp. 163).

Finally, regarding the Project's operational GHG emissions, the IS/MND states:

> "The WC2035 Plan FEIR concluded that buildout under the WC2035 Plan would have a significant GHG impact with respect to operational emissions, and that this significant impact could not be mitigated and was therefore unavoidable. Accordingly, the Project's operation-related GHG impact was adequately addressed in the WC2035 Plan FEIR" (pp. 164, 165).

Thus, the IS/MND failed to evaluate the Project's operational air quality impacts, as well as construction-related and operational GHG impacts, relying instead upon the significance determinations made by the WC2035 SP. However, this analysis is incorrect and unsubstantiated for two reasons.

First, the WC2035 DEIR includes numerous mitigation measures that are required for individual projects within the Plan, including AQ-1 through AQ-22 (p. 4.2-39 – 4.2-43). However, the IS/MND fails to mention or implement these measures on the Project site. As such, the IS/MND fails to comply with the requirements of the WC2035 Plan, and the IS/MND's impact conclusion should not be relied upon.

Second, the IS/MND admits that necessary Project-specific information, such as details of the proposed uses and locations, was not available when the WC2035 FEIR was approved (p. B-20). Specifically, according to the IS/MND,

> "As discussed in the WC2035 Plan FEIR, without project specific information on the proposed uses, locations and construction schedules, construction emissions for individual projects could not be quantified" (p. B-20).

As you can see in the excerpt above, the WC2035 SP was a ***plan-level*** document, failing to evaluate individual project-level impacts, such as the proposed Project. As a result, the IS/MND's reliance upon the WC2035 SP significance determinations is incorrect and unsubstantiated.

Failure to Identify Significant Air Quality Impact

The WC2035 Specific Plan determines that the Project will result in significant PM_{10} and $PM_{2.5}$ impacts, while all other criteria air pollutants will be less than significant (p. 4.2-43). However, the IS/MND's own CalEEMod model

demonstrates that the Project's VOC/ROG emissions also exceed thresholds (see excerpt below) (Appendix A, pp. 316).

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	325.7880	21.8985	596.7985	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4383	27,764.6589	28.3320	0.6415	28,664.1216
Energy	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765
Mobile	27.5538	155.8903	337.3481	1.7243	177.4587	0.8590	178.3178	47.4719	0.7980	48.2699		177,089.6521	177,089.6521	6.8649		177,261.2751
Total	**354.4415**	**187.6079**	**941.2354**	**3.0978**	**177.4587**	**79.1589**	**256.6176**	**47.4719**	**79.0978**	**126.5697**	**9,451.2207**	**207,400.1742**	**216,851.3949**	**35.4269**	**0.8614**	**217,993.7732**

As you can see, the IS/MND's own model estimates operational daily emissions of 354 pounds per day ("lbs/day") of VOCs ("ROG"), which exceeds the SCAQMD threshold of 55 lbs/day.[1] Thus, the IS/MND's own model indicates a significant air quality impact that was not identified or addressed by the WC2035 SP or IS/MND. As a result, the IS/MND's reliance on the WC2035 SP is incorrect and the significance determination should not be relied upon. Thus, a Project-specific EIR should be prepared to adequately evaluate air quality impacts and mitigate significant impacts to the maximum extent feasible.

Failure to Implement All Feasible Mitigation to Reduce Air Quality Impacts

As stated above, the WC2035 SP and the IS/MND conclude that the Project will result in significant and unavoidable impacts with respect to the Project's operational air quality, construction-related GHG, and operational GHG emissions. However, while we agree that the Project would result in significant air quality and GHG impacts, the IS/MND's conclusion that these impacts are "significant and unavoidable" is incorrect. According to CEQA Guidelines § 15096(g)(2),

> "When an EIR has been prepared for a project, the Responsible Agency shall not approve the project as proposed if the agency finds any feasible alternative or feasible mitigation measures within its powers that would substantially lessen or avoid any significant effect the project would have on the environment."

As you can see, an impact can only be labeled as significant and unavoidable after all available, feasible mitigation is considered and incorporated. Here, however, the IS/MND merely includes a "Summary of Recommend Project Mitigation Measures" in the air quality and GHG sections, which includes a list of the WC2035 FEIR's mitigation measures that "are *recommended* for the Project to further reduce the potentially significant and less than significant impacts related to air quality [and GHGs]" (emphasis added) (p. B-44, B-84 – B-86). However, the IS/MND fails to actually commit to the implementation of any of these measures or demonstrate that they will reduce impacts to less-than-significant levels. Furthermore, additional mitigation measures, which were not included in the WC2035 SP, exist that should be identified and incorporated, such as those suggested in the section of this letter titled "Feasible Mitigation Measures Available to Reduce Emissions," in order to reduce the Project's air quality and GHG impacts to the maximum extent feasible, as required by CEQA. Thus, the IS/MND's significant and unavoidable impact conclusion is unsubstantiated. Until the IS/MND actually commits to the mitigation measures recommended by the WC2035 SP, as well as consider all available and feasible mitigation, the Project's air quality and GHG emissions should not be considered significant and unavoidable.

[1] "South Coast AQMD Air Quality Significance Thresholds." SCAQMD, April 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

Failure to Implement All Feasible Mitigation to Reduce GHG Impacts

The IS/MND concludes that the Project's construction-related and operational greenhouse gas ("GHG") emissions would be significant and unavoidable, without comparing the Project's annual GHG emissions to SCAQMD thresholds (p. B-81 - B-84). Specifically, the IS/MND states:

> "[A] second-tier CEQA document is not required to re-analyze a significant impact that is not susceptible to being mitigated to a level of insignificance. Cal. Pub. Res. Code § 21068.5; State CEQA Guidelines § 15152(f). The WC2035 Plan FEIR concluded that buildout under the WC2035 Plan would have a significant GHG impact with respect to construction emissions, and that this significant impact could not be mitigated to a level of insignificance and was therefore unavoidable. Accordingly, the Project's construction-related GHG impact was adequately addressed in the WC2035 Plan FEIR" (p. B-81).

Furthermore, regarding the Project's operational GHG emissions, the IS/MND states:

> "The WC2035 Plan FEIR concluded that buildout under the WC2035 Plan would have a significant GHG impact with respect to operational emissions, and that this significant impact could not be mitigated and was therefore unavoidable. Accordingly, the Project's operation-related GHG impact was adequately addressed in the WC2035 Plan FEIR" (p. B-82, B-83).

However, while we agree that the Project would result in a significant GHG impact, the IS/MND's assertion that this impact is significant and unavoidable is incorrect. According to CEQA Guidelines § 15096(g)(2):

> "When an EIR has been prepared for a project, the Responsible Agency shall not approve the project as proposed if the agency finds any feasible alternative or feasible mitigation measures within its powers that would substantially lessen or avoid any significant effect the project would have on the environment."

As you can see, an impact can only be labeled as significant and unavoidable after all available, feasible mitigation is considered. However, review of the IS/MND demonstrates that the document fails to implement ***all feasible*** mitigation. Thus, the IS/MND fails to comply with CEQA, and the significant and unmitigated impact conclusion should not be relied upon. To reduce the Project's GHG impacts to the maximum extent possible, additional feasible mitigation measures should be incorporated, such as those suggested in the section of this letter titled "Feasible Mitigation Measures Available to Reduce Emissions." Until all feasible mitigation is considered and incorporated into the Project's design, the Project's construction and operational criteria air pollutant emissions should not be considered significant and unavoidable.

Unsubstantiated Input Parameters Used to Estimate Project Emissions

The IS/MND's analysis of the Project's construction-related air quality emissions relies upon emissions calculated with CalEEMod.2016.3.2.[2] CalEEMod provides recommended default values based on site-specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but the California Environmental Quality Act ("CEQA") requires that such changes be justified by

[2] CAPCOA (November 2017) CalEEMod User's Guide, http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4.

substantial evidence.[3] Once all of the values are inputted into the model, the Project's construction and operational emissions are calculated, and "output files" are generated. These output files disclose to the reader what parameters were utilized in calculating the Project's air pollutant emissions and make known which default values were changed as well as provide justification for the values selected.[4]

Review of the Project's air modeling demonstrates that the IS/MND underestimates emissions associated with Project activities. When reviewing the Project's CalEEMod output files, provided as Appendix A to the IS/MND, we found that several model inputs were not consistent with information disclosed in the IS/MND. As a result, the Project's construction and operational emissions are underestimated. An EIR should be prepared to include an updated air quality analysis that adequately evaluates the impacts that construction and operation of the Project will have on local and regional air quality.

Use of Incorrect Land Use Types and Sizes

According to the IS/MND, the Project includes 2,634,268-SF of total floor area, with 1,175,513-SF of residential space, 1,458,755-SF of non-residential space, and 5,548 parking spaces (p. A-1). However, review of the Project's CalEEMod output files demonstrates that the model failed to include the correct amounts of land use types and sizes (see excerpts below).

Phase 1 (Appendix A, pp. 33, 56)

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	49.02	1000sqft	0.31	49,017.00	0
Enclosed Parking with Elevator	76.00	Space	0.20	30,400.00	0
Unenclosed Parking with Elevator	529.00	Space	1.36	211,600.00	0
High Turnover (Sit Down Restaurant)	12.44	1000sqft	0.08	12,439.00	0
Apartments Mid Rise	355.00	Dwelling Unit	2.48	387,357.00	1015
Apartments Mid Rise	48.00	Dwelling Unit	0.27	42,781.00	137

Phase 2 (Appendix A, pp. 81, 98)

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.64	1000sqft	0.03	5,639.00	0
Enclosed Parking with Elevator	107.00	Space	0.25	42,800.00	0
Unenclosed Parking with Elevator	214.00	Space	0.50	85,600.00	0
High Turnover (Sit Down Restaurant)	3.27	1000sqft	0.02	3,265.00	0
Apartments Mid Rise	204.00	Dwelling Unit	1.30	223,892.00	583

Phase 3 (Appendix A, pp. 118, 134)

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	236.71	1000sqft	0.70	236,710.00	0
General Office Building	224.56	1000sqft	0.67	224,556.00	0
Enclosed Parking with Elevator	357.00	Space	0.42	142,800.00	0
Unenclosed Parking with Elevator	1,070.00	Space	1.27	428,000.00	0
Strip Mall	14.89	1000sqft	0.04	14,892.00	0

Phase 4 (Appendix A, pp. 151, 166)

[3] CAPCOA (November 2017) CalEEMod User's Guide, http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 1, 9.

[4] CAPCOA (November 2017) CalEEMod User's Guide, http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, fn 1, p. 11, 12 – 13. A key feature of the CalEEMod program is the "remarks" feature, where the user explains why a default setting was replaced by a "user defined" value. These remarks are included in the report.

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	68.00	Space	0.40	27,200.00	0
Unenclosed Parking with Elevator	127.00	Space	0.80	50,800.00	0
High Turnover (Sit Down Restaurant)	4.47	1000sqft	0.10	4,466.00	0
Hotel	228.00	Room	2.40	157,535.00	0

Phase 5 (Appendix A, pp. 183, 198)

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	16.20	1000sqft	0.07	16,205.00	0
Enclosed Parking with Elevator	412.00	Space	0.70	164,800.00	0
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.04	8,933.00	0
Apartments Mid Rise	15.00	Dwelling Unit	0.07	16,205.00	43
Condo/Townhouse	153.00	Dwelling Unit	1.08	253,351.00	438

Phase 6 (Appendix A, pp. 215, 230)

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	134.00	Space	0.21	53,600.00	0
Unenclosed Parking with Elevator	269.00	Space	0.42	107,600.00	0
High Turnover (Sit Down Restaurant)	3.06	1000sqft	0.01	3,060.00	0
Apartments Mid Rise	234.00	Dwelling Unit	0.97	251,927.00	669
Strip Mall	2.04	1000sqft	0.01	2,040.00	0

Phase 7 (Appendix A, pp. 247, 262)

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	246.50	1000sqft	0.38	246,499.00	0
General Office Building	3.85	1000sqft	0.01	3,853.00	0
Enclosed Parking with Elevator	240.00	Space	2.16	96,000.00	0
Unenclosed Parking with Elevator	561.00	Space	5.05	224,400.00	0
Strip Mall	11.87	1000sqft	0.02	11,870.00	0

Phase 8 (Appendix A, pp. 279, 296)

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	421.05	1000sqft	0.80	421,051.00	0
General Office Building	8.08	1000sqft	0.01	8,077.00	0
Enclosed Parking with Elevator	252.00	Space	0.20	100,800.00	0
Unenclosed Parking with Elevator	1,132.00	Space	0.80	452,800.00	0
Health Club	4.07	1000sqft	0.01	4,068.00	0
High Turnover (Sit Down Restaurant)	4.90	1000sqft	0.01	4,897.00	0
High Turnover (Sit Down Restaurant)	3.94	1000sqft	0.01	3,942.00	0
Strip Mall	15.74	1000sqft	0.03	15,741.00	0

Phase Operational New (Appendix A, pp. 314, 323)

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,211.61	1000sqft	6.05	1,211,607.00	0
Enclosed Parking with Elevator	1,368.00	Space	3.00	547,200.00	0
Unenclosed Parking with Elevator	4,180.00	Space	8.28	1,672,000.00	0
High Turnover (Sit Down Restaurant)	41.63	1000sqft	0.21	41,631.00	0
Hotel	228.00	Room	0.79	157,535.00	0
Apartments Mid Rise	1,009.00	Dwelling Unit	5.98	1,175,513.00	2886
Strip Mall	44.54	1000sqft	0.22	44,543.00	0
Health Club	4.07	1000sqft	0.01	4,068.00	0

As you can see in the excerpts above, the models are incorrect for several reasons.

First, the Phase 1 model incorrectly includes 76 spaces of “Enclosed Parking with Elevator” and 529 spaces of “Unenclosed Parking with Elevator,” instead of 17 “Parking Lot” spaces, assumed to be surface parking, and 588

"Enclosed Parking with Elevator" spaces, as stated in the IS/MND. The Phase 1 model also fails to include the 10,805-SF courtyard and pool described in the IS/MND (pp. 75, Figure A-32).

Second, the Phase 2 model incorrectly includes 107 spaces of "Enclosed Parking with Elevator" and 214 spaces of "Unenclosed Parking with Elevator," instead of 3 "Parking Lot" spaces and 318 "Enclosed Parking with Elevator" spaces, as stated in the IS/MND (pp. 76, Figure A-33).

Third, the Phase 3 model incorrectly includes 357 spaces of "Enclosed Parking with Elevator" and 1,070 spaces of "Unenclosed Parking with Elevator," instead of 1,427 "Enclosed Parking with Elevator" spaces, as stated in the IS/MND. The Phase 3 model also fails to include the plaza that will be constructed during this phase, according to the IS/MND (pp. 77, Figure A-34).

Fourth, the Phase 4 model incorrectly includes 68 spaces of "Enclosed Parking with Elevator" and 127 spaces of "Unenclosed Parking with Elevator," instead of 2 "Parking Lot" spaces and 193 "Enclosed Parking with Elevator" spaces, as stated in the IS/MND (pp. 78, Figure A-35).

Fifth, the Phase 5 model incorrectly includes 412 spaces of "Enclosed Parking with Elevator," instead of 9 "Parking Lot" spaces and 403 "Enclosed Parking with Elevator" spaces as stated in the IS/MND.

Sixth, the Phase 6 model incorrectly includes 134 spaces of "Enclosed Parking with Elevator" and 269 spaces of "Unenclosed Parking with Elevator," instead of 3 "Parking Lot" spaces and 403 "Enclosed Parking with Elevator" spaces, as stated in the IS/MND (pp. 80, Figure A-37).

Seventh, the Phase 7 model incorrectly includes 561 spaces of "Unenclosed Parking with Elevator," instead of 801 "Enclosed Parking with Elevator" spaces, as stated in the IS/MND (pp. 81, Figure A-38).

Eighth, the Phase 8 model incorrectly includes 252 spaces as "Enclosed Parking with Elevator" and 1,132 spaces as "Unenclosed Parking with Elevator," instead of 11 "Parking Lot" spaces and 1,373 "Enclosed Parking with Elevator" spaces, as stated in the IS/MND (pp. 78, Figure A-35).

Ninth, the Phase Operations model incorrectly includes 4,180 spaces of "Unenclosed Parking with Elevator" and 1,368 spaces of "Enclosed Parking with Elevator," instead of 45 "Parking Lot" spaces and 5,506 "Enclosed Parking with Elevator" spaces, as indicated by the IS/MND (pp. 82, Figure A-39).[5]

Finally, all of the models fail to include the "[i]nternal physical improvements including streets, sidewalks, open space, and other amenities" or the "[e]xternal physical improvements including streets, sidewalks, open space, and other amenities" (pp. 74, Figure A-31). These improvements and amenities include "approximately 4,068 square feet of community space," "1,622 bicycle parking spaces," "280 parking spaces for motorcycles/scooters," "an updated internal roadway network" affecting Burbank Boulevard, De Soto Avenue, Adler Drive, and Town Center Drive, the reconstruction of Warner Center Drive, which qualifies as a "New Street under the WC2035 SP, and 167,792-SF of residential amenities, including 86,111-SF of common landscaped area (p. A1 - A2 & A-15, Table A-2).

These errors present an issue, as the land use type and size features are used throughout CalEEMod to determine default variable and emission factors that go into the model's calculations.[6] The square footage of a land use is used for certain calculations such as determining the wall space to be painted (i.e., VOC emissions from architectural coatings) and volume that is heated or cooled (i.e., energy impacts). By underestimating the floor surface area and

[5] Calculated: (34 New Surface Parking from Previous Phases to Remain + 11 New Surface Parking this Phase) = 45 Total Surface Parking Spaces; and
(4,133 New Structured Parking from Previous Phases to Remain + 1,373 New Structure Parking this Phase) = 5,506 Total Structured Parking Spaces.

[6] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.caleemod.com/, p. 18.

failing to model the proposed land use type as stated in the IS/MND, the models may underestimate the Project's emissions and should not be relied upon to determine Project significance.

Failure to Include Total Amount of Material Export

According to the IS/MND, the Project would result in 430,000 cubic yards ("cy") of cut and 20,000 cy of fill (p. A-45, A-46). Specifically, the Project would require the following amounts of cut and fill *by phase*:

- Phase 1 – 14,000 cy of cut, 8,000 cy of fill, and 6,000 cy of export
- Phase 2 – 31,000 cy of cut, 3,000 cy of fill, and 28,000 cy of export
- Phase 3 – 107,000 cy of cut, 2,000 cy of fill, and 105,000 cy of export
- Phase 4 – 39,000 cy of cut, 1,000 cy of fill, and 38,000 cy of export
- Phase 5 – 42,000 cy of cut, 2,000 cy of fill, and 40,000 cy of export
- Phase 6 – 49,000 cy of cut, 2,000 cy of fill, and 47,000 cy of export
- Phase 7 – 60,000 cy of cut, 1,000 cy of fill, and 59,000 cy of export
- Phase 8 – 88,000 cy of cut, 1,000 cy of fill, and 87,000 cy of export.

Thus, the Project would require 6,000, 28,000, 105,000, 38,000, 40,000, 47,000, 59,000, and 87,000 cy of material export for the 8 construction phases, respectively. However, review of the Project's CalEEMod output files demonstrates that the required amount of material export was underestimated in the Phase 3, Phase 4, Phase 7, and Phase 8 construction models (see excerpts below).

Phase 3 (Appendix A, pp. 120, 136)

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	89,187.00

Phase 4 (Appendix A, pp. 153, 168)

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	27,871.00

Phase 7 (Appendix A, pp. 264, 282)

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	51,038.00

Phase 8 (Appendix A, pp. 282, 298)

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	81,738.00

As you can see, the amount of material export required for Phases 3, 4, 7, and 8 were underestimated by a total of 39,166 cy.[7] These errors present an issue, as the inclusion of total material export in the model is necessary to calculate emissions produced from material movement, including truck loading, unloading, and additional hauling

[7] Calculated: (Phase 3 material export underestimated by 15,813 cy) + (Phase 4 material export underestimated by 10,129 cy) + (Phase 7 material export underestimated by 7,962 cy) + (Phase 8 material export underestimated by 5,262 cy) = total material export underestimated by 39,166 cy.

truck trips.[8] By underestimating material export, these models underestimate the Project's construction emissions and should not be relied upon.

Unsubstantiated Changes to Off-Road Construction Equipment Unit Amounts and Usage Hours

Review of the Project's CalEEMod output files demonstrates that the models for Phases 1, 2, 3, 4, 7, and 8 included several manual changes to the off-road construction equipment unit amounts and usage hours (Appendix A, pp. 35, 58, 83, 84, 100-101, 120, 136, 153, 168, 249, 264, 282, 299). As previously mentioned, the CalEEMod User's Guide requires any changes to model defaults be justified.[9] Review of the "User Entered Comments & Non-Default Data" tables for these models demonstrates that either no justification was provided or the justification simply deferred to "construction assumptions" (Appendix A, pp. 33-34, 56-57, 151, 166, 247-248, 262-263, 280, 297). Furthermore, the IS/MND fails to provide a construction equipment list or justify these changes whatsoever. As a result, we cannot verify the revised off-road equipment lists for Phases 1, 2, 3, 4, 7, and 8. By including unsubstantiated changes to the Project's anticipated construction equipment list, the models underestimate the Project's construction related emissions and should not be relied upon to determine Project significance.

Unsubstantiated Increase to Construction Schedule

Review of the Project's CalEEMod output files demonstrates that the construction models included several changes to the overall construction period, as well as the individual phase lengths (Appendix A, pp. 35, 58, 83, 100, 119-120, 135-136, 153, 168, 184-185, 199-200, 217, 232, 249, 264, 281, 298). As previously mentioned, the CalEEMod User's Guide requires any changes to model defaults be justified.[10] Review of the "User Entered Comments & Non-Default Data" tables for each of these models demonstrates that the justifications simply refer to construction assumptions (Appendix A, pp. 33, 56, 81, 98, 118, 134, 151, 166, 183, 198, 215, 230, 247, 262, 280, 297). Furthermore, while the IS/MND provides the *estimated completion year* for each Phase of construction, it fails to substantiate the changes to *each individual* phase (pp. 74 – 82, Figures A-31 – A-39). As such, the IS/MND fails to justify the significant and disproportional changes in length to each construction phase. This presents an issue, as spreading out construction emissions over a longer period than anticipated results in an underestimation of the maximum daily emissions associated with Project construction. In addition, according to the CalEEMod User's Guide, each construction phase is associated with different emissions activities (see excerpt below).[11]

> *Demolition* involves removing buildings or structures.
>
> *Site Preparation* involves clearing vegetation (grubbing and tree/stump removal) and removing stones and other unwanted material or debris prior to grading.
>
> *Grading* involves the cut and fill of land to ensure that the proper base and slope is created for the foundation.
>
> *Building Construction* involves the construction of the foundation, structures and buildings.
>
> *Architectural Coating* involves the application of coatings to both the interior and exterior of buildings or structures, the painting of parking lot or parking garage striping, associated signage and curbs, and the painting of the walls or other components such as stair railings inside parking structures.
>
> *Paving* involves the laying of concrete or asphalt such as in parking lots, roads, driveways, or sidewalks.

[8] CalEEMod User's Guide, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/upgrades/2016.3/01_user-39-s-guide2016-3-1.pdf?sfvrsn=2, p. 3, 26.
[9] CalEEMod User Guide, *available at:* http://www.caleemod.com/, p. 2, 9
[10] CalEEMod User Guide, *available at:* http://www.caleemod.com/, p. 2, 9
[11] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.caleemod.com/, p. 31.

As you can see, by disproportionately increasing individual phases, each model's emissions calculations are altered and potentially distributed incorrectly. Thus, by including these unsubstantiated changes to the construction schedule, the models may underestimate the Project's construction-related emissions.

Unsubstantiated Reductions to Acres of Grading

Review of the Project's CalEEMod output files for phases 1-8 demonstrates that the acres of grading for were manually reduced by 25.3-, 62.9-, 109.4-, 11.39-, 28.05-, 24.6-, 14.1-, 85.66-acres, respectively (Appendix A, pp. 35, 58, 83, 100, 120, 136, 153, 168, 185, 200, 217, 232, 249, 264, 281, 298). As previously mentioned, the CalEEMod User's Guide requires any changes to model defaults be justified.[12] Review of the "User Entered Comments & Non-Default Data" tables for each of these models demonstrates that the justifications provided for these changes either refer to construction assumptions or state that the change is consistent with the Project's acreage (Appendix A, pp. 34, 57, 82, 99, 118, 134, 152, 167, 184, 199, 216, 231, 248, 263, 280, 297). However, these justifications are incorrect.

First, the IS/MND and associated documents fail to mention any changes to the Project's anticipated acres of grading. Second, the Project site acreage does not determine the acres of grading for the Project. The CalEEMod User's Guide states that the Acres of Grading, or Total Acres Graded data field:

> *"represents the cumulative distance traversed on the property by the grading equipment, assuming a blade width of 12 feet. In order to properly grade a piece of land, multiple passes with grading equipment may be required. So even though the lot size is a fixed number of acres, the Total Acres Graded could be an order of magnitude higher than the footprint of the lot and is calculated based on the equipment list (including number of equipment), the number of days need to complete the grading and/or site preparation phase, and the maximum number of acres a given piece of equipment can traverse in an 8-hour workday."* [13]

Thus, the Acres of Grading is not determine by the lot size, but calculated based on the equipment list, number of days required for the grading and site preparation phase, and maximum number of acres a given piece of equipment can traverse in one day of construction. As such, the justifications that rely upon the Project's acreage are incorrect and fail to substantiate any reductions to the acres of grading. By including unsubstantiated reductions to the Project's Acres of Grading, the models may underestimate the Project's construction-related emissions and should not be relied upon to determine Project significance.

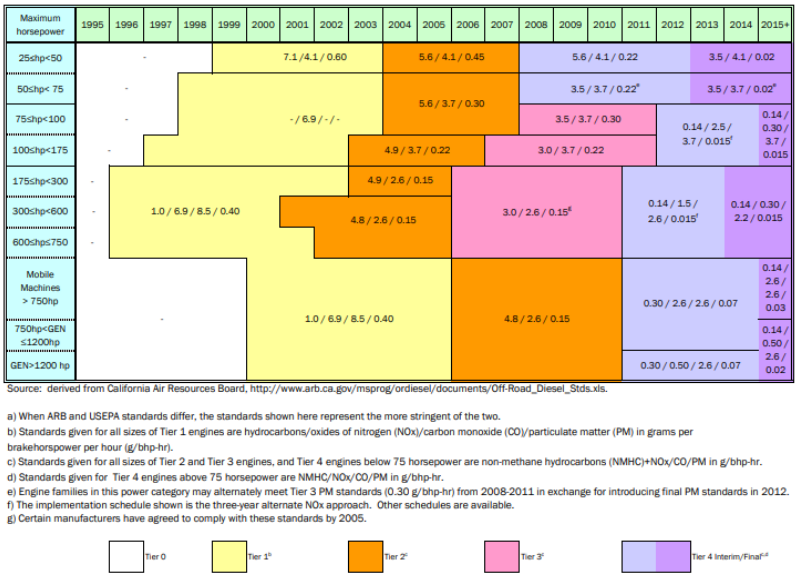
Incorrectly Modeled Tier 4 Final Mitigation

Review of the CalEEMod output files demonstrates that the Project's emissions were modeled assuming that construction equipment would be equipped with Tier 4 Final engines (Appendix A, pp. 34, 35, 57, 58, 82-83, 99-100, 119, 135, 152-153, 167-168, 184, 199, 216-217, 231-232, 248-249, 263-264, 280-281, 297-298). As previously mentioned, the CalEEMod User's Guide requires any changes to defaults be justified.[14] Here, while the IS/MND indicates that the WC2035 SP *recommended* that future Projects implement Tier 4 mitigation in an effort to reduce construction-related emissions, the IS/MND itself fails to commit to the implementation of this measure (p. B-41 - B-42, MM AQ-1(10)). Furthermore, MM AQ-1(10) does not specify between Tier 4 *Interim* or Tier 4 *Final* equipment mitigation, which presents an issue, as Tier 4 Final equipment is more efficient than Tier 4 Interim equipment.

The United States Environmental Protection Agency ("U.S. EPA") has slowly adopted more stringent standards to lower the emissions from off-road construction equipment since 1994. Since that time, Tier 1, Tier 2, Tier 3, Tier 4

[12] CalEEMod User Guide, *available at:* http://www.caleemod.com/, p. 2, 9
[13] CalEEMod User Guide, *available at:* http://www.caleemod.com/, p. 33
[14] CalEEMod User Guide, *available at:* http://www.caleemod.com/, p. 2, 9

Interim, and Tier 4 Final construction equipment has been phased in over time. Tier 4 Final represents the cleanest burning equipment and therefore has the lowest emissions compared to other tiers, including Tier 4 Interim equipment (see excerpt below):[15]



Source: derived from California Air Resources Board, http://www.arb.ca.gov/msprog/ordiesel/documents/Off-Road_Diesel_Stds.xls.

a) When ARB and USEPA standards differ, the standards shown here represent the more stringent of the two.
b) Standards given for all sizes of Tier 1 engines are hydrocarbons/oxides of nitrogen (NOx)/carbon monoxide (CO)/particulate matter (PM) in grams per brakehorspower per hour (g/bhp-hr).
c) Standards given for all sizes of Tier 2 and Tier 3 engines, and Tier 4 engines below 75 horsepower are non-methane hydrocarbons (NMHC)+NOx/CO/PM in g/bhp-hr.
d) Standards given for Tier 4 engines above 75 horsepower are NMHC/NOx/CO/PM in g/bhp-hr.
e) Engine families in this power category may alternately meet Tier 3 PM standards (0.30 g/bhp-hr) from 2008-2011 in exchange for introducing final PM standards in 2012.
f) The implementation schedule shown is the three-year alternate NOx approach. Other schedules are available.
g) Certain manufacturers have agreed to comply with these standards by 2005.

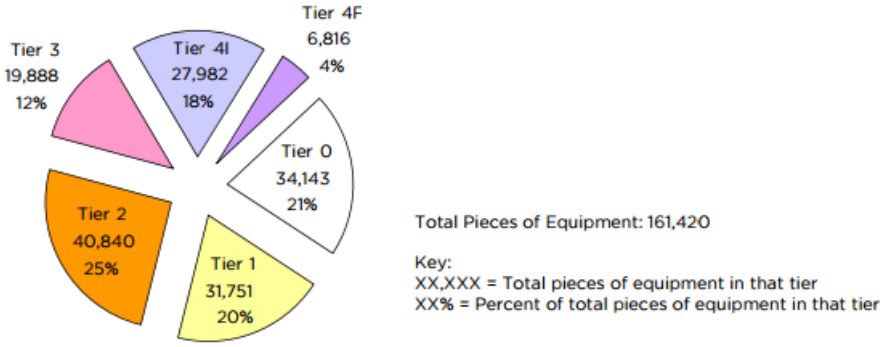
As demonstrated in the figure above, Tier 4 Interim equipment has greater emission levels than Tier 4 Final equipment. Thus, by modeling construction emissions with nearly a full Tier 4 Final equipment fleet, the IS/MND failed to account for higher emissions that may occur as a result of the use of Tier 4 Interim equipment. Since MM AQ-1(10) fails to specify whether Project's should use Tier 4 Interim or Tier 4 Final equipment, it is incorrect to model emissions assuming that the more efficient Tier 4 Final equipment will be used. Until the IS/MND specifies that the Project demonstrates a commitment to the Tier 4 Final engines during all phases of construction, and not Tier 4 Interim equipment, the Project's potential impacts should not be evaluated assuming the use of this cleaner burning equipment.

Furthermore, the IS/MND failed to evaluate the feasibility in obtaining Tier 4 equipment. Due to the limited amount of Tier 4, especially Tier 4 Final, equipment available, the IS/MND should have assessed the feasibility in obtaining equipment with Tier 4 engines (see excerpt below).[16]

[15] "San Francisco Clean Construction Ordinance Implementation Guide for San Francisco Public Projects." August 2015, *available at:* https://www.sfdph.org/dph/files/EHSdocs/AirQuality/San_Francisco_Clean_Construction_Ordinance_2015.pdf, p. 6.

[16] "San Francisco Clean Construction Ordinance Implementation Guide for San Francisco Public Projects." August 2015, *available at:* https://www.sfdph.org/dph/files/EHSdocs/AirQuality/San_Francisco_Clean_Construction_Ordinance_2015.pdf, p. 6.

Figure 4: 2014 Statewide All Fleet Sizes (Pieces of Equipment)



As demonstrated in the figure above, Tier 4 Final and Interim equipment only account for 4% and 18%, respectively, of all off-road equipment currently available in California. Thus, emissions are modeled assuming that the Project will be able to obtain Tier 4 Final equipment, even though this equipment only accounts for 4% of available off-road equipment currently available in the state. Therefore, the model represents the best-case scenario even though obtaining these types of equipment may not be feasible. As a result, the model may underestimate the Project's construction-related emissions.

Incorrectly Applied Construction Mitigation Measures

The Project's CalEEMod output files demonstrate that the model assumed the following mitigation measures would be implemented during Phases 1 and 2 of construction: "Use Cleaner Engines for Construction Equipment," "Use Soil Stabilizer," "Water Exposed Area," and "Reduce Vehicle Speed on Unpaved Roads" (see excerpt below) (Appendix A, pp. 38, 62, 86-87, 103-104).

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Use Soil Stabilizer
Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

Furthermore, review of the Project's CalEEMod output files demonstrates that the Project's emissions were modeled assuming the following mitigation measures would be implemented during Phases 3, 4, 5, 6, 7, and 8 of construction: "Use Cleaner Engines for Construction Equipment" and "Water Exposed Area" (see excerpt below) (Appendix A, pp. 124, 139, 156, 171, 188, 203, 220, 235, 252, 267, 285, 302).

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Water Exposed Area

As previously mentioned, the CalEEMod User's Guide requires any changes to defaults be justified.[17] Review of the "User Entered Comments & Non-Default Data" table demonstrates that the justifications provided for these measure only address the model's inclusion of Tier 4 equipment mitigation, and otherwise defer to construction assumptions (Appendix A, pp. 34, 57, 82, 99, 119, 135, 152, 167, 184, 199, 216, 231, 248, 263, 280, 297). Here, the "Summary of **Recommend** Project Mitigation Measures" includes soil binders and reestablishing ground cover after

[17] CalEEMod User Guide, *available at:* http://www.caleemod.com/, p. 2, 9

Project construction (emphasis added) (p. B-41, B-43, AQ-1, AQ-2). However, these mitigation measures are merely *recommended* by the WC2035 FEIR and are not guaranteed to be implemented, as discussed above (p. B-44). Thus, the IS/MND fails to actually commit to the implementation of these measures on the Project site.

Furthermore, the IS/MND states: "CalEEMod emissions modeling analysis includes fugitive dust control measures, based on compliance with SCAQMD Rule 403" (p. B-28). However, review of Rule 403 demonstrates that this is incorrect. Specifically, SCAQMD Rule 403 demonstrates that *large operations* are required to *either* water unpaved roads 3 times per day, water unpaved roads 1 time per day and limit vehicle speeds to 15 mph, *or* apply a chemical stabilizer (see excerpt below) (p. 403-21, Table 2).[18]

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS
Unpaved Roads	(4a) Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR (4b) Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR (4c) Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.

As such, to comply with SCAQMD Rule 403, the Project may *either* water unpaved roads 3 times per day, water unpaved roads 1 time per day and limit vehicle speeds to 15 mph, *or* apply a chemical stabilizer.

Furthermore, according to SCAQMD Rule 403, large operations are defined as,

> "[A]ny active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic meters (5,000 cubic yards) or more tree times during the most recent 365-day period."[19]

However, we know that the Project site is 24.4-acres, and thus, does not meet the 50-acre disturbed surface area criteria to qualify as a large operation. In addition, while we know that the Project will require a *total* of 430,000 cy of cut and 20,000 cy of fill over the approximately 15-year construction period, we cannot verify that this will exceed 5,000 cubic yards three times or more during a 365-day period (p. A-45). As such, we cannot verify that the proposed Project qualifies as a large operation and thus, cannot verify that these measures are required. As a result, these measures are unsubstantiated in the CalEEMod model, and the model may underestimate the Project's construction-related emissions.

Unsubstantiated Inclusion of Operational Mitigation Measures

Review of the Project's CalEEMod output files demonstrates that the model incorrectly includes several water- and waste-related operational mitigation measures. As a result, the Project's emissions may be underestimated, and the model should not be relied upon to determine Project significance.

First, the Project's CalEEMod output files reveal that the Project's emissions were modeled including the following water-related mitigations measures: "Install Low Flow Bathroom Faucet," "Install Low Flow Kitchen Faucet," "Install

[18] "RULE 403. FUGITIVE DUST." SCAQMD, June 2005, *available at:* http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf.
[19] "RULE 403. FUGITIVE DUST." SCAQMD, June 2005, *available at:* http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf, p. 403-3 – 403-4.

Low Flow Toilet," "Install Low Flow Shower," and "Use Water Efficient Irrigation System" (see excerpt below) (Appendix A, pp. 322, 331).

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet
Install Low Flow Kitchen Faucet
Install Low Flow Toilet
Install Low Flow Shower
Use Water Efficient Irrigation System

Second, the Project's CalEEMod output files reveal that the Project's emissions were modeled including the following waste-related mitigation measure: "Institute Recycling and Composting Services" (see excerpt below) (Appendix A, pp. 322).

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

However, the inclusion of the above-mentioned water- and waste-related operational mitigation measures is unsubstantiated. According to the CalEEMod User's Guide,

> "The mitigation measures included in CalEEMod are largely based on the CAPCOA Quantifying Greenhouse Gas Mitigation Measures (http://www.capcoa.org/wp-content/uploads/downloads/2010/09/CAPCOA-Quantification-Report-9-14-Final.pdf) document. The CAPCOA measure numbers are provided next to the mitigation measures in CalEEMod to assist the user in understanding each measure by referencing back to the CAPCOA document."[20]

However, the IS/MND fails to demonstrate consistency with the measures included in the model based on CAPCOA's Quantifying Greenhouse Gas Mitigation Measures document (see table below).

Measure	Consistency
CAPCOA's Quantifying Greenhouse Gas Mitigation Measures[21]	
Water Measures	
Measure WUW-1 Install Low-Flow Water Fixtures *"Installing low-flow or high-efficiency water fixtures in buildings reduces water demand, energy demand, and associated indirect GHG emissions."*	Here, no justification is provided in the "User Entered Comments & Non-Default Data" table. Furthermore, MM U-4 in the "Summary of Recommend Project Mitigation Measures" states:

[20] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.caleemod.com/, p. 53.
[21] "Quantifying Greenhouse Gas Mitigation Measures." CAPCOA, August 2010, *available at:* http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf.

The following information needs to be provided by the Project Applicant: • Total expected indoor water demand, without installation of low-flow or high-efficiency fixtures (million gallons), AND • Total expected indoor water demand, after installation of low-flow or high-efficiency fixtures (million gallons), OR • Commitment to low-flow or high-efficiency water fixtures (toilets, showerheads, sink faucets, dishwashers, clothes washers, or all of the above)	"The Applicant shall implement water conservation measures in new development that shall include, but not be limited to, the following: • Installation of high-efficiency toilets (1.28 gallons per flush or less, includes dual flush • High-efficiency urinals (0.125 gallons per flush or less, includes waterless) • Restroom faucet flow rate of 1.5 gallons per minute or less • Public restroom faucet flow rate of 0.5 gallons per minute or less and self-closing • Showerhead flow rate of 2.0 gallons per minute or less" (p. B-85). However, this mitigation measure is *recommended* by the WC2035 FEIR and not *required* to be implemented, monitored, and enforced on the Project site (p. B-84). Thus, the IS/MND fails to commit to the measure's implementation, and the inclusion of this measure in the Project's CalEEMod model is unsubstantiated.
Measure WUW-4 Use Water-Efficient Landscape Irrigation Systems *"Using water-efficient landscape irrigation techniques such as "smart" irrigation technology reduces outdoor water demand, energy demand, and the associated GHG emissions."* The following information needs to be provided by the Project Applicant: • Total expected outdoor water demand, without installation of smart landscape irrigation controller (million gallons). • Project-specific percent reduction in outdoor water demand, after installation of smart landscape irrigation controller. Percent reduction must be verifiable. Otherwise, use the default value of 6.1%. Baseline Method: GHG emissions = $Water_{baseline}$ x Electricity x Utility Where: GHG emissions = MT CO_2e $Water_{baseline}$= Total expected outdoor water demand, without installation of smart landscape irrigation controllers (million gallons) Electricity = Electricity required to supply, treat, and distribute water (kWh/million gallons) • Northern California Average: 3,500 kWh/million gallons • Southern California Average: 11,111 kWh/million gallons	Here, no justification is provided in the "User Entered Comments & Non-Default Data" table. Furthermore, MM AQ-22 in the "Summary of Recommend Project Mitigation Measures" states: "All landscaping shall be required to be drought tolerant to reduce water consumption and provide passive solar benefits" (p. B-44). However, this mitigation measure is *recommended* by the WC2035 FEIR and not *guaranteed* to be implemented, monitored, and enforced on the Project site (p. B-44). Thus, the IS/MND fails to actually commit to the implementation of this measure, and the inclusion of this measure in the Project's CalEEMod model is unsubstantiated.

• Utility = Carbon intensity of Local Utility (CO2e/kWh)	
Waste Measures	
Measure SW-1 Institute Recycling and Composting Services *"Current protocols for quantifying emissions reductions from diverted landfill waste developed by the USEPA and the California Center for Integrated Waste Management Board (CIWMB) are based on life-cycle approaches, which reflect emissions and reductions in both the upstream and downstream processes around waste management. The Project Applicant should seek local agency guidance on comparing and/or combining operational emissions inventories and life cycle emissions inventories… To take credit for this measure, the Project Applicant would need to provide detailed and substantial evidence supporting the amount of waste reduced or diverted to recycling and composting due to the institution of extended recycling and composting services."* *"USEPA's Waste Reduction Model (WARM) is used to quantify baseline emissions and emissions reductions from diverting landfill waste to composting or recycling. This webbased tool is available online… The required inputs are the tons of waste associated with one of three waste management practices: landfill (baseline scenario), recycled (mitigated scenario), combusted (not applicable in California), and composted (mitigated scenario)."* The following information needs to be provided by the Project Applicant: • For residential buildings: # of residents • For shopping malls and office buildings: building square footage • For public venues: annual # visitors • For all other commercial buildings: # of employees • Waste disposal method • Amount of waste reduced or diverted to recycling and composting due to the institution of extended recycling and composting services.	Here, the "User Entered Comments & Non-Default Data" table, the justification provided for the Inclusion of this measure is: "Per City of LA Zero Waste Plan" (Appendix A, pp. 315, 324). In addition, the IS/MND discusses the City's 2013 *Zero Waste Progress Report* and AB 341 (p. B-110, Table B-10). However, this is incorrect for several reasons. First, as stated in the IS/MND, "AB 341 directs **CalRecycle** to develop and adopt regulations" for commercial recycling. As such, this does not apply at the Project-level. Second, as stated by the IS/MND, AB 341 contains reduction goals for the year 2020. As the proposed Project will be constructed after 2020, AB 341 does not apply. Third, the IS/MND's use of the outdated 2013 *Zero Waste Progress Report* is unsubstantiated. As the proposed Project will be constructed for at least fifteen years, beginning in 2020 or later, waste reductions from 2013 do not apply. The CalEEMod model was also most recently updated in 2016, so any reductions prior to this date would be included in the model, such as 2013 reductions. Fourth, AB 341 contains municipal recycling goals, but fails to apply to composting directly. As such, implementing a measure that applies to *both recycling and composting* is incorrect and unsubstantiated. Finally, the IS/MND fails to address the measure as it is described in the CAPCOA guidance document, including a life-cycle approach, local agency guidance, the specific amount of waste reduced or diverted to recycling and composting due to the institution of this measure, number of employees, and waste disposal method. The IS/MND also fails to mention or utilize WARM in order to quantify baseline emissions and emissions reductions. Thus, the IS/MND fails to actually commit to the implementation of this measure, and the inclusion of this measure in the Project's CalEEMod model is unsubstantiated.

As you can see in the table above, the IS/MND fails to justify several of the mitigation measures utilized in the Project's CalEEMod model. As a result, the inclusion of these measures in the model are unsubstantiated and the model should not be relied upon to determine Project significance.

Updated Analysis Indicates Significant Air Quality Impacts

In an effort to determine the construction-related and operational emissions associated with the mixed-use development component of the Project, we prepared updated CalEEMod models, using the Project-specific information provided by the IS/MND. In our updated model, we corrected the parking land use types and sizes; included the correct amount of material export; omitted the unsubstantiated changes to off-road construction equipment usage hours and unit amounts, changes to individual construction phase lengths, reductions to acres of grading values, Tier 4 Final mitigation, construction-related mitigation measures, and operational mitigation measures. We did not include the courtyard and pool, plaza, internal physical improvements, or external improvements, as described in the IS/MND, as the IS/MND failed to provide sufficient Project-specific information needed to include these land uses in the model (pp. 74-7; Figure A-31, A-32, and A-34). As a result, while our updated CalEEMod models provide more accurate estimates of the Project's construction-related and operational criteria pollutant emissions, the models may still underestimate Project construction and operational emissions. A Project-specific EIR should be prepared to evaluate these additional emissions with updated CalEEMod models including all proposed land uses.

As previously stated, our updated analysis demonstrates that the ROG/VOC emissions associated with all 8 phases of construction, exceed the 75 pounds per day ("lbs/day") threshold set by the SCAQMD (see table below).[22]

Model	ROG/VOC
Phase 1	185.53
Phase 2	84.53
Phase 3	229.13
Phase 4	84.87
Phase 5	109.44
Phase 6	100.22
Phase 7	126.23
Phase 8	218.58
SCAQMD Regional Threshold (lbs/day)	**75**
Threshold Exceeded?	***Yes***

As demonstrated above, when modeled correctly, the Project's construction-related ROG/VOC emissions exceed the SCAQMD threshold of 75 lbs/day.[23] Furthermore, our updated analysis demonstrates that the NO_X emissions associated with the construction of Phases 1, 2, 3, 4, 5, and 6 exceed the SCAQMD threshold of 100 lbs/day, as referenced by the IS/MND (see table below) (p. B-29, Table B-1).

Model	NO_X
Phase 1	544.78
Phase 2	277.03
Phase 3	133.00
Phase 4	116.72

[22] "South Coast AQMD Air Quality Significance Thresholds." SCAQMD, April 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.
[23] "South Coast AQMD Air Quality Significance Thresholds." SCAQMD, April 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

Phase 5	200.19
Phase 6	180.20
SCAQMD Regional Threshold (lbs/day)	**100**
Threshold Exceeded?	***Yes***

As demonstrated above, when modeled correctly, the Project's construction-related NO_X emissions exceed the SCAQMD threshold of 100 lbs/day. Furthermore, our updated analysis demonstrates that the Project's operational ROG/VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ emissions, calculated by subtracting the existing operational emissions from the proposed operational emissions, exceed the SCAQMD thresholds of 55, 55, 550, 150, and 55 lbs/day (see table below).[24]

Model	ROG/VOC	NO_X	CO	PM10	PM2.5
Existing	11.62	22.62	46.43	25.40	6.94
Proposed	353.62	188.73	926.79	256.62	126.57
Net Increase (Proposed - Existing)	342.00	166.11	880.36	231.23	119.63
SCAQMD Regional Threshold (lbs/day)	**55**	**55**	**550**	**150**	**55**
Threshold Exceeded?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***

As demonstrated above, the Project's operational ROG/VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ emissions exceed the SCAQMD thresholds of 55, 55, 550, 150, and 55 lbs/day.[25] Thus, our models demonstrate that the Project would result in a potentially significant air quality impact that was not previously identified or addressed in the IS/MND. As a result, a Project-specific EIR should be prepared to adequately assess and mitigate the potential air quality and health risk impacts that the Project may have on the surrounding environment.

Diesel Particulate Matter Health Risk Emissions Inadequately Evaluated

The IS/MND concludes that the Project's health risk impact would be less than significant as a result of LST analysis, without conducting a quantified construction or operational health risk assessment ("HRA") (p. B-35 - B-38). Furthermore, the IS/MND makes several qualitative claims regarding the Project's potential to generate toxic air contaminants ("TACs") (p. B-40 - B-41). However, this analysis and subsequent less than significant impact conclusion is incorrect for several reasons.

First, the use of the LST method to determine the Project's health risk impacts on nearby, existing sensitive receptors is incorrect. While the LST method assesses the impact of pollutants at a local level, it only evaluates impacts from criteria air pollutants. According to the SCAQMD's Final Localized Significance Threshold Methodology document, the LST analysis is only applicable to NO_x, CO, PM_{10}, and $PM_{2.5}$ emissions, which are collectively called criteria air pollutants.[26] Because the LST method can only be applied to criteria air pollutants, it cannot be used to determine whether emissions from diesel particulate matter ("DPM"), a human carcinogen, will result in significant impacts to nearby sensitive receptors. Thus, health impacts from TACs, such as DPM, were not analyzed in the IS/MND.

[24] "South Coast AQMD Air Quality Significance Thresholds." SCAQMD, April 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.
[25] "South Coast AQMD Air Quality Significance Thresholds." SCAQMD, April 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.
[26] "Final Localized Significance Threshold Methodology." SCAQMD, Revised July 2008, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf.

Second, by failing to conduct a quantified HRA, the IS/MND is inconsistent with the most recent guidance published by the Office of Environmental Health Hazard Assessment ("OEHHA"), the organization responsible for providing guidance on conducting HRAs in California. In February 2015, OEHHA released *Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*, which describes the types of projects that warrant the preparation of an HRA.[27] Construction of the Project will produce emissions of DPM through construction equipment over a period of eight 12 to 29-month phases, beginning in 2020 and ending in 2035 (p. A-44, B-240). The OEHHA document recommends that short-term projects lasting at least two months be evaluated for cancer risks to nearby sensitive receptors.[28] Therefore, per OEHHA guidelines, we recommend that health impacts from Project construction be evaluated. Furthermore, once construction is complete, the Project will operate for a long time. According to the Traffic Volume Review ("TVR") provided as Appendix K to the IS/MND, Project operation will generate roughly 17,831 daily vehicle trips, which will generate additional exhaust emissions and continue to expose nearby receptors to DPM emissions (Appendix K, pp. 35, Table 1). The OEHHA document recommends that exposure from projects lasting over 6 months be evaluated for the duration of the project, and recommends an exposure duration of 30 years be used to estimate individual cancer risk for the maximally exposed individual resident ("MEIR").[29] Although we were not provided with the expected lifetime of the Project, we can reasonably assume that the Project will operate for at least 30 years. Therefore, we recommend that health impacts from Project operation also be evaluated, as a 30-year exposure duration exceeds the 2-month and 6-month requirements set forth by OEHHA. This guidance reflects the most recent health risk policy, and as such, we recommend that an assessment of health risks to nearby sensitive receptors from Project construction and operations be included in an EIR for the Project.

Third, by claiming a less than significant impact without conducting a quantified HRA for nearby, existing sensitive receptors, the IS/MND fails to compare the excess health risk to the SCAQMD's threshold of 10 in one million.[30] Thus, the IS/MND should not conclude less than significant health risk impacts resulting from Project construction without quantifying emissions to compare to the proper threshold.

Screening-Level Assessment Indicates Significant Impact

In an effort to demonstrate the potential health risk posed by Project construction and operation to nearby sensitive receptors, we prepared a simple screening-level HRA. The results of our assessment, as described below, provide substantial evidence that the Project's construction and operational DPM emissions may result in a potentially significant health risk impact not previously identified by the IS/MND.

In order to conduct our screening level risk assessment, we relied upon AERSCREEN, which is a screening level air quality dispersion model. [31] The model replaced SCREEN3, and AERSCREEN is included in the OEHHA[32] and

[27] "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, *available at:* http://oehha.ca.gov/air/hot_spots/hotspots2015.html

[28] "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, *available at:* http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf, p. 8-18

[29] "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, *available at:* http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf, p. 8-6, 8-15

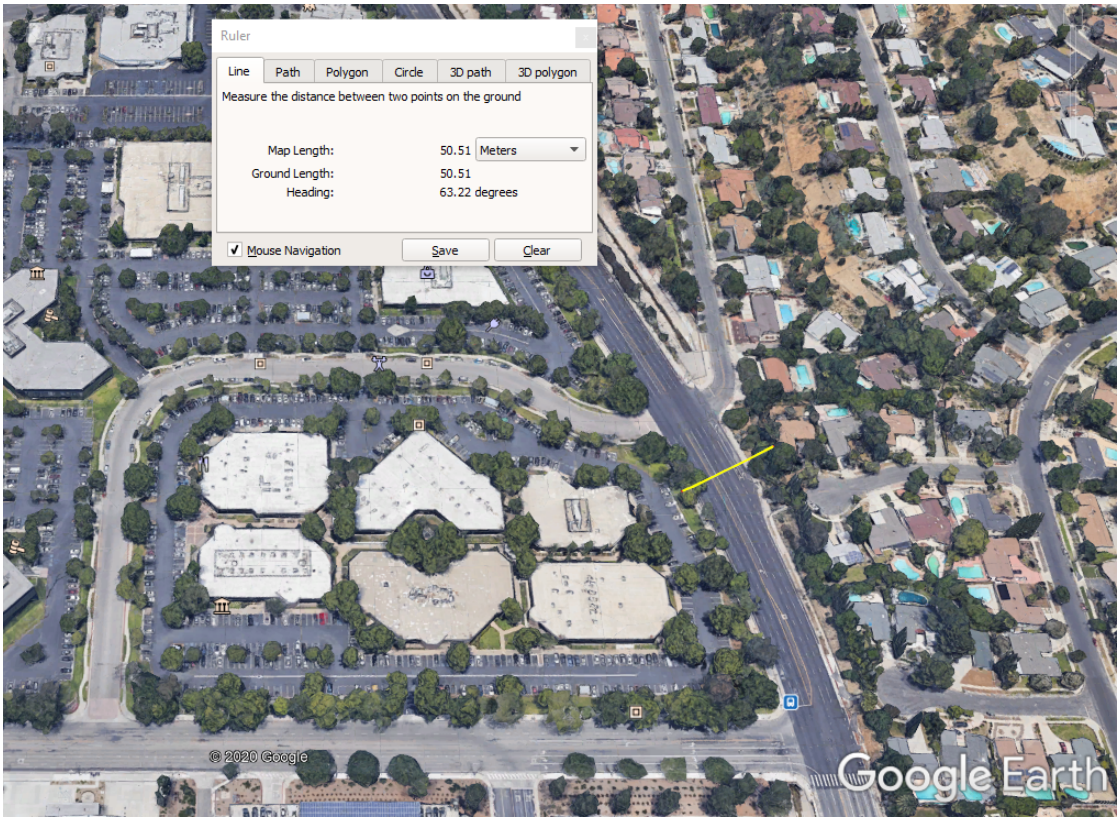
[30] "South Coast AQMD Air Quality Significance Thresholds." SCAQMD, April 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2

[31] "AERSCREEN Released as the EPA Recommended Screening Model," USEPA, April 11, 2011, *available at:* http://www.epa.gov/ttn/scram/guidance/clarification/20110411_AERSCREEN_Release_Memo.pdf

[32] "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, *available at:* https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf

the California Air Pollution Control Officers Associated ("CAPCOA")[33] guidance as the appropriate air dispersion model for Level 2 health risk screening assessments ("HRSAs"). A Level 2 HRSA utilizes a limited amount of site-specific information to generate maximum reasonable downwind concentrations of air contaminants to which nearby sensitive receptors may be exposed. If an unacceptable air quality hazard is determined to be possible using AERSCREEN, a more refined modeling approach is required prior to approval of the Project.

We prepared a preliminary HRA of the Project's construction and operational health-related impact to residential sensitive receptors using the unmitigated annual PM_{10} exhaust estimates from SWAPE's updated CalEEMod models. Review of Google Earth demonstrates that the closest sensitive receptors are the residences located approximately 50 meters east of the Project site (see excerpt below).



Consistent with recommendations set forth by OEHHA, we assumed exposure begins during the third trimester stage of life.

SWAPE's updated Phase 1 construction CalEEMod output files indicate that construction activities will generate approximately 269.6 pounds of diesel particulate matter ("DPM") over the default 416-day construction period. The AERSCREEN model relies on a continuous average emission rate to simulate maximum downward concentrations from point, area, and volume emission sources. To account for the variability in equipment usage and truck trips over Project construction, we calculated an average DPM emission rate by the following equation:

[33] "Health Risk Assessments for Proposed Land Use Projects," CAPCOA, July 2009, *available at:* http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA_HRA_LU_Guidelines_8-6-09.pdf

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{269.6\ lbs}{416\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.003402\ g/s}$$

Using this equation, we estimated a construction emission rate of 0.003402 grams per second (g/s). SWAPE's updated Phase 2 construction CalEEMod output files indicate that construction activities will generate approximately 224.6 pounds of DPM over the 418-day construction period. We calculated an average DPM emission rate by the following equation:

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{224.6\ lbs}{418\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.002821\ g/s}$$

Using this equation, we estimated a construction emission rate of 0.002821 grams per second (g/s). SWAPE's updated Phase 3 construction CalEEMod output files indicate that construction activities will generate approximately 191 pounds of DPM over the 559-day construction period. We calculated an average DPM emission rate by the following equation:

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{191\ lbs}{559\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.00179\ g/s}$$

Using this equation, we estimated a construction emission rate of 0.00179 grams per second (g/s). SWAPE's updated Phase 4 construction CalEEMod output files indicate that construction activities will generate approximately 151 pounds of DPM over the 416-day construction period. We calculated an average DPM emission rate by the following equation:

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{151\ lbs}{416\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.00191\ g/s}$$

Using this equation, we estimated a construction emission rate of 0.00191 grams per second (g/s). SWAPE's updated Phase 5 construction CalEEMod output files indicate that construction activities will generate approximately 133 pounds of DPM over the 418-day construction period. We calculated an average DPM emission rate by the following equation:

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{133\ lbs}{418\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.00167\ g/s}$$

Using this equation, we estimated a construction emission rate of 0.00167 grams per second (g/s). SWAPE's updated Phase 6 construction CalEEMod output files indicate that construction activities will generate approximately 38.8 pounds of DPM over the 418-day construction period. We calculated an average DPM emission rate by the following equation:

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{38.8\ lbs}{418\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.000487\ g/s}$$

Using this equation, we estimated a construction emission rate of 0.000487 grams per second (g/s). SWAPE's updated Phase 7 construction CalEEMod output files indicate that construction activities will generate approximately 35 pounds of diesel particulate matter (DPM) over the 447-day construction period. We calculated an average DPM emission rate by the following equation:

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{35\ lbs}{447\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.000411\ g/s}$$

Using this equation, we estimated a construction emission rate of 0.000411 grams per second (g/s). SWAPE's updated Phase 8 construction CalEEMod output files indicate that construction activities will generate approximately 45.8 pounds of DPM over the 559-day construction period. We calculated an average DPM emission rate by the following equation:

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{45.8\ lbs}{559\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.00043\ g/s}$$

Using this equation, we estimated a construction emission rate of 0.00043 grams per second (g/s). Subtracting the 4,844-day construction duration, including the break between the construction of Phases 3 and 4, from the total residential duration of 30 years, we assumed that after Project construction, the sensitive receptor would be exposed to the Project's operational DPM for an additional 16.98 years, approximately. SWAPE's operational CalEEMod emissions, calculated by subtracting the existing emissions from the proposed Project, indicate that operational activities will generate approximately 2,518 pounds of DPM per year throughout operation. Applying the same equation used to estimate the construction DPM rate, we estimated the following emission rate for Project operation:

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{2{,}518\ lbs}{365\ days} \times \frac{453.6\ grams}{lbs} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3{,}600\ seconds} = \mathbf{0.03621\ g/s}$$

Using this equation, we estimated an operational emission rate of 0.03621 g/s. Construction and operational activity was simulated as a 24.4-acre rectangular area source in AERSCREEN with dimensions of 326 meters by 303 meters. A release height of three meters was selected to represent the height of exhaust stacks on operational equipment and other heavy-duty vehicles, and an initial vertical dimension of one and a half meters was used to simulate instantaneous plume dispersion upon release. An urban meteorological setting was selected with model-default inputs for wind speed and direction distribution.

The AERSCREEN model generates maximum reasonable estimates of single-hour DPM concentrations from the Project site. EPA guidance suggests that in screening procedures, the annualized average concentration of an air pollutant be estimated by multiplying the single-hour concentration by 10%.[34] While the closest residential sensitive receptor is approximately 50 meters away, the maximally exposed sensitive receptor is approximately 200 meters away, according to AERSCREEN. The single-hour concentrations estimated by AERSCREEN for the construction of Phases 1, 2, 3, 4, 5, 6, 7, and 8 are approximately 1.422, 1.179, 0.7498, 0.7965, 0.6982, 0.2037, 0.1718, and 0.1798 µg/m^3 DPM at approximately 200 meters downwind. Multiplying these single-hour concentrations by 10%, we get annualized average concentrations of 0.1422, 0.1179, 0.07498, 0.07965, 0.06982, 0.02037, 0.01718, and 0.01798 µg/m^3 for the construction of Phases 1, 2, 3, 4, 5, 6, 7, and 8 at the maximally exposed sensitive receptor. For Project operation, the single-hour concentration is estimated by AERSCREEN is approximately 15.14 µg/m^3 at approximately 200 meters downwind. Multiplying this single- hour

[34] "Screening Procedures for Estimating the Air Quality Impact of Stationary Sources Revised." EPA, 1992, *available at*: http://www.epa.gov/ttn/scram/guidance/guide/EPA-454R-92-019_OCR.pdf; *see also* "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, *available at:* https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf, p. 4-36

concentration by 10%, we get an annualized average concentration of 1.514 µg/m^3 for Project operation at the maximally exposed sensitive receptor.

We calculated the excess cancer risk to the closest sensitive receptor using applicable HRA methodologies prescribed by OEHHA and the SCAQMD. Consistent with the default CalEEMod construction schedules, the annualized average concentration for Phase 1 construction was used for the entire third trimester of pregnancy (0.25 years) and the first 0.89 years of the infantile stage of life (0 – 2 years). The annualized average concentration for Phase 2 construction was used for the remaining 1.11 years of the infantile stage of life and the first 0.03 years of the child stage of life (2 – 16 years). The annualized average concentration for Phase 3 construction was used for the next 1.53 years of the child stage of life. Based on the default CalEEMod construction schedules, a 3.27 year pause in construction was assumed before the start of Phase 4 construction. The annualized average concentration for Phase 4 construction was used for the next 1.14 years of the child stage of life. The annualized average concentration for Phase 5 construction was used for the next 1.15 years of the child stage of life. The annualized average concentration for Phase 6 construction was used for the next 1.15 years of the child stage of life. The annualized average concentration for Phase 7 construction was used for the next 1.22 years of the child stage of life. The annualized average concentration for Phase 8 construction was used for the next 1.53 years of the child stage of life. The annualized average concentration for Project operation was used for the remainder of the 30-year exposure period, which makes up the remaining 2.98 years of the child stage of life and the entire adult stages of life (16 – 30 years).

Consistent with OEHHA, SCAQMD, BAAQMD, and SJVAPCD guidance, we used Age Sensitivity Factors (ASFs) to account for the heightened susceptibility of young children to the carcinogenic toxicity of air pollution.[35, 36, 37, 38] According to this guidance, the quantified cancer risk should be multiplied by a factor of ten during the third trimester of pregnancy and during the first two years of life (infant) as well as multiplied by a factor of three during the child stage of life (2 to 16 years). We also included the quantified cancer risk without adjusting for the heightened susceptibility of young children to the carcinogenic toxicity of air pollution in accordance with older OEHHA guidance from 2003. This guidance utilizes a less health protective scenario than what is currently recommended by SCAQMD, the air quality district responsible for the City, and several other air districts in the state. Furthermore, in accordance with guidance set forth by OEHHA, we used the 95th percentile breathing rates for infants.[39] Finally, according to SCAQMD guidance, we used a Fraction of Time At Home (FAH) Value of

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[35] "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, *available at:* https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.

[36] "Draft Environmental Impact Report (DEIR) for the Proposed The Exchange (SCH No. 2018071058)." SCAQMD, March 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2019/march/RVC190115-03.pdf?sfvrsn=8, p. 4.

[37] "California Environmental Quality Act Air Quality Guidelines." BAAQMD, May 2017, *available at:* http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en, p. 56; see also "Recommended Methods for Screening and Modeling Local Risks and Hazards." BAAQMD, May 2011, *available at:* http://www.baaqmd.gov/~/media/Files/Planning%20and%20Research/CEQA/BAAQMD%20Modeling%20Approach.ashx, p. 65, 86.

[38] "Update to District's Risk Management Policy to Address OEHHA's Revised Risk Assessment Guidance Document." SJVAPCD, May 2015, *available at:* https://www.valleyair.org/busind/pto/staff-report-5-28-15.pdf, p. 8, 20, 24.

[39] "Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics 'Hot Spots' Information and Assessment Act," June 5, 2015, *available at:* http://www.aqmd.gov/docs/default-source/planning/risk-assessment/ab2588-risk-assessment-guidelines.pdf?sfvrsn=6, p. 19.

1 for the 3rd trimester and infant receptors.[40] We used a cancer potency factor of 1.1 (mg/kg-day)$^{-1}$ and an averaging time of 25,550 days. The results of our calculations are shown below.

The Maximum Exposed Individual at an Existing Residential Receptor (MEIR)						
Activity	**Duration (years)**	**Concentration (ug/m3)**	**Breathing Rate (L/kg-day)**	**Cancer Risk without ASFs***	**ASF**	**Cancer Risk with ASFs***
Phase 1	0.25	0.1422	361	1.9E-07	10	1.9E-06
3rd Trimester Duration	***0.25***			***1.9E-07***	***3rd Trimester Exposure***	***1.9E-06***
Phase 1	0.89	0.1422	1090	2.1E-06	10	2.1E-05
Phase 2	1.11	0.1179	1090	2.2E-06	10	2.2E-05
Infant Exposure Duration	***2.00***			***4.2E-06***	***Infant Exposure***	***4.2E-05***
Phase 2	0.03	0.1179	572	3.5E-08	3	1.1E-07
Phase 3	1.53	0.07498	572	9.9E-07	3	3.0E-06
None	3.27	0	572	0.0E+00	3	0.0E+00
Phase 4	1.14	0.07965	572	7.8E-07	3	2.3E-06
Phase 5	1.15	0.06982	572	6.9E-07	3	2.1E-06
Phase 6	1.15	0.02037	572	2.0E-07	3	6.0E-07
Phase 7	1.22	0.01718	572	1.8E-07	3	5.4E-07
Phase 8	1.53	0.01798	572	2.4E-07	3	7.1E-07
Operation	2.98	1.514	572	3.9E-05	3	1.2E-04
Child Exposure Duration	***14.00***			***4.2E-05***	***Child Exposure***	***1.3E-04***
Operation	14.00	1.514	261	6.1E-05	1	6.1E-05
Adult Exposure Duration	***14.00***			***6.1E-05***	***Adult Exposure***	***6.1E-05***
Lifetime Exposure Duration	**30.00**			**1.1E-04**	**Lifetime Exposure**	**2.31E-04**

* We, along with CARB and SCAQMD, recommend using the more updated and health protective 2015 OEHHA guidance, which includes ASFs.

The excess cancer risk posed to adults, children, infants, and during the third trimester of pregnancy at the closest receptor, located approximately 200 meters away, over the course of Project construction and operation, utilizing age sensitivity factors, are approximately 61, 130, 42, and 1.9 in one million, respectively. The excess cancer risk over the course of a residential lifetime (30 years) at the closest receptor, with age sensitivity factors, is approximately 231 in one million. The infant, child, and lifetime cancer risks, using age sensitivity factors, all exceed the SCAQMD threshold of 10 in one million, thus resulting in a potentially significant impact not previously addressed or identified by the IS/MND. Results without age sensitivity factors are presented in the table above, although we **do not** recommend utilizing these values for health risk analysis,

"Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, *available at:* https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf

[40] "Risk Assessment Procedures for Rules 1401, 1401.1, and 212." SCAQMD, August 2017, *available at:* http://www.aqmd.gov/docs/default-source/rule-book/Proposed-Rules/1401/riskassessmentprocedures_2017_080717.pdf, p. 7.

as they are less conservative and health-protective according to the most recent guidance. Regardless, the excess cancer risk over the course of a residential lifetime (30 years) at the closest receptor, without age sensitivity factors, is approximately 110 in one million. Thus, the Project may result in a significant impact regardless of the use of age sensitivity factors.

An agency must include an analysis of health risks that connects the Project's air emissions with the health risk posed by those emissions. Our analysis represents a screening-level HRA, which is known to be conservative and tends to err on the side of health protection. The purpose of the screening-level construction HRA shown above is to demonstrate the link between the proposed Project's emissions and the potential health risk. Our screening-level HRA demonstrates that construction of the Project could result in a potentially significant health risk impact, when correct exposure assumptions and up-to-date, applicable guidance are used. Therefore, since our screening-level construction and operational HRA indicates a potentially significant impact, an EIR should include a reasonable effort to connect the Project's air quality emissions and the potential health risks posed to nearby receptors. Thus, an EIR should include a quantified air pollution model as well as an updated, quantified, refined health risk assessment which adequately and accurately evaluates health risk impacts associated with both Project construction and operation.

Updated Analysis Demonstrates Significant Greenhouse Gas Impacts

Applicable thresholds and site-specific modeling demonstrate that the proposed Project would result in a significant GHG impact not previously mitigated by the IS/MND. The updated CalEEMod output files, modeled by SWAPE with Project-specific information, disclose the Project's mitigated emissions, which include approximately 11,222.36 MT CO_2e of total construction emissions (sum of 2020 through 2034) and approximately 44,587.3 MT CO_2e/year of net annual operational emissions (sum of area, energy, mobile, waste, and water-related emissions for the proposed Project minus the sum of area, energy, mobile, waste, and water-related emissions for the existing land uses). When we compare the Project's GHG emissions to the 3,000 MT CO_2e/yr mixed-use threshold (SCAQMD Tier 3 Option #1), we find that the Project's GHG emissions exceed the threshold (see table below).

SWAPE Annual Greenhouse Gas Emissions	
Project Phase	**Net Emissions (MT CO_2e/year)**
Construction (amortized over 30 years)	374.08
Area	340.8349
Energy	19,496.9023
Mobile	20,835.8968
Waste	927.5616
Water	2,986.0999
Total	**44,961.38**
SCAQMD Mixed-Use Threshold	3,000
Exceed?	***Yes***

As demonstrated in the table above, the proposed Project would exceed the SCAQMD's 3,000 MT CO_2e/year mixed-use threshold. Hence, a service population analysis is warranted. According to CAPCOA's *CEQA & Climate Change* report, service population is defined as "the sum of the number of residents and

the number of jobs supported by the project."[41] While the IS/MND disclosed that the entire WC2035 Plan anticipated "45,000 new residents and 49,000 new employees," the IS/MND failed to disclose the service population for the Project itself (p. B-208). According to the Southern California Association of Governments ("SCAG") *Employment Density Study Summary Report*, the proposed Project is anticipated to generate approximatley 2,623 employees.[42] Furthermore, according to the City of Van Nuys Demographic Profile, the proposed Project is anticipated to generate approximatley 3,248 residents.[43] As such, the Project's total service population would be approximately 5,871 people.[44] When dividing the Project's GHG emissions (amortized construction + operational) by a service population value of 5,871 people, we find that the Project would emit approximately 7.66 MT CO_2e/SP/yr.[45] This exceeds the SCAQMD 2035 efficiency target of 3.0 MT CO_2e/SP/year and the outdated SCAQMD 2020 threshold of 4.8 MT CO_2e/SP/year (see table below).[46]

SWAPE Service Population Efficiency Analysis	
Project Phase	**Proposed Project (MT CO_2e/yr)**
Total	**44,961.38**
Service Population	5,871
Service Population Efficiency	**7.66**
SCAQMD 2035 Threshold ***Exceed?***	3 ***Yes***

As the above table indicates, the Project's GHG emissions exceed the SCAQMD's 2035 service population efficiency threshold of 3.0 MT CO_2e/SP/year, thus resulting in a significant impact not previously mitigated in the IS/MND. Thus, an updated GHG analysis should be prepared in a Project-specific EIR and additional mitigation should be incorporated accordingly, as described below.

Feasible Mitigation Measures Available to Reduce Emissions

Both the IS/MND and our updated analysis demonstrate that Project-related construction and operational emissions would result in potentially significant impacts. Therefore, according to CEQA guidelines,

[41] CAPCOA (Jan. 2008) CEQA & Climate Change, p. 71-72, http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA-White-Paper.pdf.
[42] Calculated: [(1,140,746 SF) ÷ (466 SF/employee)] + [(7,731 SF + 15,741 SF + 35,311 SF + 26,762 SF + 6,068 SF) ÷ (1,023 SF/employee)] + [(157,535 SF) ÷ (1,804 SF/employee)] = 2,623 employees;
see "Employment Density Study Summary Report." SCAG, October 2001, *available at:* http://www.mwcog.org/file.aspx?A=QTTlTR24POOOUIw5mPNzK8F4d8djdJe4LF9Exj6lXOU%3D, p. 15, Table 1A.
[43] Calculated: (1177 units) x (2.76 persons per renter unit) = 3,248 residents;
see "Van Nuys – North Sherman Oaks Demographic Profile." City of Los Angeles Department of City Planning, 2017, *available at:* https://planning.lacity.org/odocument/919b263c-ec90-4d04-a811-765819d6afa3/2017_demo_profile_van_nuys.pdf, p. 2.
[44] Calculated: 2,625 employees + 3,248 residents = 5,873 people.
[45] Calculated: (44,961.38 MT CO_2e/year) / (5,873 service population) = (7.66 MT CO_2e/SP/year).
[46] "Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #15." SCAQMD, September 2010, *available at*: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf, p. 2.

additional mitigation measures must be identified and incorporated in a Project-specific EIR to reduce these emissions to a less than significant level.

In an effort to reduce the Project's emissions, we identified several mitigation measures that are applicable to the proposed Project. Feasible mitigation measures can be found in CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures*.[47] Therefore, to reduce the Project's emissions, consideration of the following measures should be made:

CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures*[48]
easures – Energy
Building Energy Use
BE-1 Exceed Title-24 Building Envelope Energy Efficiency Standards (California Building Standards Code) by X% *Range of Effectiveness:* See document for specific improvement desired.
BE-2 Install Programmable Thermostat Timers *Range of Effectiveness:* Best Management Practice – Influences building energy use for heating and cooling.
BE-3 Obtain Third-party HVAC Commissioning and Verification of Energy Savings (to be grouped with BE-1) *Range of Effectiveness:* Not applicable on its own. This measure enhances the effectiveness of BE-1.
BE-4 Install Energy Efficient Appliances Typical reductions for energy-efficient appliances can be found in the *Energy Star and Other Climate Protection Partnerships* Annual Reports. *Range of Effectiveness:* Residential 2-4% GHG emissions from electricity use. Grocery Stores: 17-22% of GHG emissions from electricity use. See document for other land use types.
BE-5 Install Energy Efficient Boilers *Range of Effectiveness:* 1.2-18.4% of boiler GHG emissions.
Lighting
LE-1 Install Higher Efficacy Public Street and Area Lighting *Range of Effectiveness:* 16-40% of outdoor lighting.
LE-2 Limit Outdoor Lighting Requirements *Range of Effectiveness:* Best Management Practice, but may be quantified.
LE-3 Replace Traffic Lights with LED Traffic Lights *Range of Effectiveness:* 90% of emissions associated with existing traffic lights.
Alternative Energy Generation
AE-1 Establish Onsite Renewable or Carbon-Neutral Energy Systems – Generic *Range of Effectiveness:* 0-100% of GHG emissions associated with electricity use.
AE-2 Establish Onsite Renewable Energy System – Solar Power *Range of Effectiveness:* 0-100% of GHG emissions associated with electricity use.
AE-3 Establish Onsite Renewable Energy System – Wind Power *Range of Effectiveness:* 0-100% of GHG emissions associated with electricity use.
AE-4 Utilize a Combined Heat and Power System

[47] http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf
[48] "Quantifying Greenhouse Gas Mitigation Measures." California Air Pollution Control Officers Association (CAPCOA), August 2010, *available at:* http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf, p.

Range of Effectiveness: 0-46% of GHG emissions associated with electricity use.
AE-5 Establish Methane Recovery in Landfills *Range of Effectiveness:* 73-77% reduction in GHG emissions from landfills without methane recovery.
AE-6 Establish Methane Recovery in Wastewater Treatment Plants *Range of Effectiveness:* 95-97% reduction in GHG emissions from wastewater treatment plants without recovery.
Measures – Transportation
Land Use/Location
LUT-1 Increase Density *Range of Effectiveness:* 0.8-30% vehicle miles traveled (VMT) reduction and therefore a 0.8-30% reduction in GHG emissions.
LUT-2 Increase Location Efficiency *Range of Effectiveness:* 10% vehicle miles traveled (VMT) reduction and therefore 10-65% reduction in GHG emissions.
LUT-3 Increase Diversity of Urban and Suburban Developments (Mixed Use) *Range of Effectiveness:* 9-30% vehicle miles traveled (VMT) and therefore 9-30% reduction in GHG emissions.
LUT-4 Increase Destination Accessibility *Range of Effectiveness:* 6.7-20% vehicle miles traveled (VMT) reduction and therefore 6.7-20% reduction in GHG emissions.
LUT-5 Increase Transit Accessibility *Range of Effectiveness:* 0.5-24.6% VMT reduction and therefore 0.5-24.6% reduction in GHG emissions.
LUT-6 Integrate Affordable and Below Market Rate Housing *Range of Effectiveness:* 0.04-1.20% vehicle miles traveled (VMT) reduction and therefore 0.04-1.20% reduction in GHG emissions.
LUT-7 Orient Project Toward Non-Auto Corridor *Range of Effectiveness:* Grouped strategy (see LUT-3).
LUT-8 Locate Project near Bike Path/Bike Lane *Range of Effectiveness:* Grouped strategy (see LUT-4).
Neighborhood/Site Enhancements
SDT-1 Provide Pedestrian Network Improvements, such as: • Compact, mixed-use communities • Interconnected street network • Narrower roadways and shorter block lengths • Sidewalks • Accessibility to transit and transit shelters • Traffic calming measures and street trees • Parks and public spaces • Minimize pedestrian barriers *Range of Effectiveness:* 0-2% vehicle miles traveled (VMT) reduction and therefore 0-2% reduction in GHG emissions.
SDT-2 Provide Traffic Calming Measures, such as: • Marked crosswalks • Count-down signal timers • Curb extensions • Speed tables • Raised crosswalks • Raised intersections • Median islands • Tight corner radii

- Roundabouts or mini-circles
- On-street parking
- Planter strips with trees
- Chicanes/chokers

Range of Effectiveness: 0.25-1% vehicle miles traveled (VMT) reduction and therefore 0.25-1% reduction in GHG emissions.

SDT-3 Implement a Neighborhood Electric Vehicle (NEV) Network.

Range of Effectiveness: 0.5-12.7% vehicle miles traveled (VMT) reduction since NEVs would result in a mode shift and therefore reduce the traditional vehicle VMT and GHG emissions. Range depends on the available NEV network and support facilities, NEV ownership levels, and the degree of shift from traditional.

SDT-4 Create Urban Non-Motorized Zones

Range of Effectiveness: Grouped strategy (see SDT-1).

SDT-5 Incorporate Bike Lane Street Design (on-site)

Range of Effectiveness: Grouped strategy (see LUT-9).

SDT-6 Provide Bike Parking in Non-Residential Projects

Range of Effectiveness: Grouped strategy (see LUT-9).

SDT-7 Provide Bike Parking with Multi-Unit Residential Projects

Range of Effectiveness: Grouped strategy (see SDT-3).

SDT-8 Provide Electric Vehicle Parking

Range of Effectiveness: Grouped strategy (see SDT-3).

SDT-9 Dedicate Land for Bike Trails

Range of Effectiveness: Grouped strategy (see LUT-9).

Parking Policy/Pricing

PDT-1 Limit Parking Supply through:

- Elimination (or reduction) of minimum parking requirements
- Creation of maximum parking requirements
- Provision of shared parking

Range of Effectiveness: 5-12.5% vehicle miles traveled (VMT) reduction and therefore 5-12.5% reduction in GHG emissions.

PDT-2 Unbundle Parking Costs from Property Cost

Range of Effectiveness: 2.6-13% vehicle miles traveled (VMT) reduction and therefore 2.6-13% reduction in GHG emissions.

PDT-3 Implement Market Price Public Parking (On-Street)

Range of Effectiveness: 2.8-5.5% vehicle miles traveled (VMT) reduction and therefore 2.8-5.5% reduction in GHG emissions.

PDT-4 Require Residential Area Parking Permits

Range of Effectiveness: Grouped strategy (see PPT-1, PPT-2, and PPT-3).

Commute Trip Reduction Programs

TRT-1 Implement Commute Trip Reduction (CTR) Program – Voluntary

- Carpooling encouragement
- Ride-matching assistance
- Preferential carpool parking
- Flexible work schedules for carpools
- Half time transportation coordinator
- Vanpool assistance
- Bicycle end-trip facilities (parking, showers and lockers)

- New employee orientation of trip reduction and alternative mode options
- Event promotions and publications
- Flexible work schedule for employees
- Transit subsidies
- Parking cash-out or priced parking
- Shuttles
- Emergency ride home

Range of Effectiveness: 1-6.2% commute vehicle miles traveled (VMT) reduction and therefore 1-6.2% reduction in commute trip GHG emissions.

TRT-2 Implement Commute Trip Reduction (CTR) Program – Required Implementation/Monitoring

- Established performance standards (e.g. trip reduction requirements)
- Required implementation
- Regular monitoring and reporting

Range of Effectiveness: 4.2-21% commute vehicle miles traveled (VMT) reduction and therefore 4.2-21% reduction in commute trip GHG emissions.

TRT-3 Provide Ride-Sharing Programs

- Designate a certain percentage of parking spaces for ride sharing vehicles
- Designating adequate passenger loading and unloading and waiting areas for ride-sharing vehicles
- Providing a web site or messaging board for coordinating rides
- Permanent transportation management association membership and funding requirement.

Range of Effectiveness: 1-15% commute vehicle miles traveled (VMT) reduction and therefore 1-15% reduction in commute trip GHG emissions.

TRT-4 Implement Subsidized or Discounted Transit Program

Range of Effectiveness: 0.3-20% commute vehicle miles traveled (VMT) reduction and therefore a 0.3-20% reduction in commute trip GHG emissions.

TRT-5 Provide Ent of Trip Facilities, including:

- Showers
- Secure bicycle lockers
- Changing spaces

Range of Effectiveness: Grouped strategy (see TRT-1 through TRT-3).

TRT-6 Encourage Telecommuting and Alternative Work Schedules, such as:

- Staggered starting times
- Flexible schedules
- Compressed work weeks

Range of Effectiveness: 0.07-5.5% commute vehicle miles traveled (VMT) reduction and therefore 0.07-5.5% reduction in commute trip GHG emissions.

TRT-7 Implement Commute Trip Reduction Marketing, such as:

- New employee orientation of trip reduction and alternative mode options
- Event promotions
- Publications

Range of Effectiveness: 0.8-4% commute vehicle miles traveled (VMT) reduction and therefore 0.8-4% reduction in commute trip GHG emissions.

TRT-8 Implement Preferential Parking Permit Program

Range of Effectiveness: Grouped strategy (see TRT-1 through TRT-3).

TRT-9 Implement Car-Sharing Program

Range of Effectiveness: 0.4-0.7% vehicle miles traveled (VMT) reduction and therefore 0.4-0.7% reduction in GHG emissions.

TRT-10 Implement School Pool Program *Range of Effectiveness:* 7.2-15.8% in school vehicle miles traveled (VMT) reduction and therefore 7.2-15.8% reduction in school trip GHG emissions.
TRT-11 Provide Employer-Sponsored Vanpool/Shuttle *Range of Effectiveness:* 0.3-13.4% commute vehicle miles traveled (VMT) reduction and therefore 0.3-13.4% reduction in commute trip GHG emissions.
TRT-12 Implement Bike-Sharing Programs *Range of Effectiveness:* Grouped strategy (see SDT-5 and LUT-9).
TRT-13 Implement School Bus Program *Range of Effectiveness:* 38-63% School VMT reduction and therefore 38-63% reduction in school trip GHG emissions.
TRT-14 Price Workplace Parking, such as: • Explicitly charging for parking for its employees; • Implementing above market rate pricing; • Validating parking only for invited guests; • Not providing employee parking and transportation allowances; and • Educating employees about available alternatives. *Range of Effectiveness:* 0.1-19.7% commute vehicle miles traveled (VMT) reduction and therefore 0.1-19.7% reduction in commute trip GHG emissions.
TRT-15 Implement Employee Parking "Cash-Out" *Range of Effectiveness:* 0.06-7.7% commute vehicle miles traveled (VMT) reduction and therefore 0.6-7.7% reduction in commute trip GHG emissions.
Transit System Improvements
TST-1 Transit System Improvements, including: • Grade-separated right-of-way, including bus only lanes (for buses, emergency vehicles, and sometimes taxis), and other Transit Priority measures. Some systems use guideways which automatically steer the bus on portions of the route. • Frequent, high-capacity service • High-quality vehicles that are easy to board, quiet, clean, and comfortable to ride. • Pre-paid fare collection to minimize boarding delays. • Integrated fare systems, allowing free or discounted transfers between routes and modes. • Convenient user information and marketing programs. • High quality bus stations with Transit Oriented Development in nearby areas. • Modal integration, with BRT service coordinated with walking and cycling facilities, taxi services, intercity bus, rail transit, and other transportation services. *Range of Effectiveness:* 0.02-3.2% vehicle miles traveled (VMT) reduction and therefore 0.02-3% reduction in GHG emissions.
TST-2 Implement Transit Access Improvements, such as: • Sidewalk/crosswalk safety enhancements • Bus shelter improvements *Range of Effectiveness:* Grouped strategy (see TST-3 and TST-4)
TST-3 Expand Transit Network *Range of Effectiveness:* 0.1-8.2% vehicle miles traveled (VMT) reduction and therefore 0.1-8.2% reduction in GHG emissions.
TST-4 Increase Transit Service Frequency/Speed *Range of Effectiveness:* 0.02-2.5% vehicle miles traveled (VMT) reduction and therefore 0.02-2.5% reduction in GHG emissions.

TST-5 Provide Bike Parking Near Transit *Range of Effectiveness:* Grouped strategy (see TST-3 and TST-4).
TST-6 Provide Local Shuttles *Range of Effectiveness:* Grouped strategy (see TST-4 and TST-5).
Road Pricing/Management
RPT-1 Implement Area or Cordon Pricing *Range of Effectiveness:* 7.9-22% vehicle miles traveled (VMT) reduction and therefore 7.9-22% reduction in GHG emissions.
RPT-2 Improve Traffic Flow, such as: • Signalization improvements to reduce delay; • Incident management to increase response time to breakdowns and collisions; • Intelligent Transportation Systems (ITS) to provide real-time information regarding road conditions and directions; and • Speed management to reduce high free-flow speeds. *Range of Effectiveness:* 0-45% reduction in GHG emissions.
RTP-3 Required Project Contributions to Transportation Infrastructure Improvement Projects *Range of Effectiveness:* Grouped strategy (see RPT-2 and TST-1 through 7).
RTP-4 Install Park-and-Ride Lots *Range of Effectiveness:* Grouped strategy (see RPT-1, TRT-11, TRT-3, and TST-1 through 6).
Vehicles
VT-1 Electrify Loading Docs and/or Require Idling-Reduction Systems *Range of Effectiveness:* 26-71% reduction in TRU idling GHG emissions.
VT-2 Utilize Alternative Fueled Vehicles, such as: • Biodiesel (B20) • Liquefied Natural Gas (LNG) • Compressed Natural Gas (CNG) *Range of Effectiveness:* Reduction in GHG emissions varies depending on vehicle type, year, and associated fuel economy.
VT-3 Utilize Electric or Hybrid Vehicles *Range of Effectiveness:* 0.4-20.3% reduction in GHG emissions.
Measures – Water
Water Supply
WSW-1 Use Reclaimed Water *Range of Effectiveness:* Up to 40% in Northern California and up to 81% in Southern California.
WSW-2 Use Gray Water *Range of Effectiveness:* Up to 100% of outdoor water GHG emissions if outdoor water use is replaced completely with graywater.
WSW-3 Use Locally Sourced Water Supply *Range of Effectiveness:* 0-60% for Northern and Central California, 11-75% for Southern California.
Water Use
WUW-1 Install Low-Flow Water Fixtures *Range of Effectiveness:* 20% of GHG emissions associated with indoor Residential water use; 17-31% of GHGH emissions associated with Non-Residential indoor water use.
WUW-2 Adopt a Water Conservation strategy

Range of Effectiveness: Varies depending on Project Applicant and strategies selected. It is equal to the Percent Reduction in water commitment.
WUW-3 Design Water-Efficient Landscapes (see California Department of Water Resources Model Water Efficient Landscape Ordinance), such as: • Reducing lawn sizes; • Planting vegetation with minimal water needs, such as native species; • Choosing vegetation appropriate for the climate of the project site; • Choosing complimentary plants with similar water needs or which can provide each other with shade and/or water. *Range of Effectiveness:* 0-70% reduction in GHG emissions from outdoor water use.
WUW-4 Use Water-Efficient Landscape Irrigation Systems ("Smart" irrigation control systems) *Range of Effectiveness:* 6.1% reduction in GHG emissions from outdoor water.
WUW-5 Reduce Turf in Landscapes and Lawns *Range of Effectiveness:* Varies and is equal to the percent commitment to turf reduction, assuming no other outdoor water use.
WUW-6 Plant Native or Drought-Resistant Trees and Vegetation *Range of Effectiveness:* Best Management Practice; may be quantified if substantial evidence is available.
Measures – Area Landscaping
Landscaping Equipment
A-1 Prohibit Gas Powered Landscape Equipment *Range of Effectiveness:* Best Management Practice, influences Area GHG emissions from landscape equipment.
A-2 Implement Lawnmower Exchange Program *Range of Effectiveness:* Best Management Practice, influences Area GHG emissions from landscape equipment.
A-3 Electric Yard Equipment Compatibility *Range of Effectiveness:* Best Management Practice, influences Area GHG emissions from landscape equipment. Not applicable on its own. This measure enhances effectiveness of A-1 and A-2.
Measures – Solid Waste
Solid Waste
SW-1 Institute Recycling and Composting Services *Range of Effectiveness:* Varies depending on Project Applicant and strategies selected. Best Management Practice.
SW-2 Recycle Demolished Construction Material *Range of Effectiveness:* Varies depending on Project Applicant and strategies selected. Best Management Practice.
Measures – Vegetation
Vegetation
V-1 Urban Tree Planting *Range of Effectiveness:* CO_2 reduction varies by number of trees. VOC emissions may increase.
V-2 Create New Vegetated Open Space *Range of Effectiveness: Varies based on amount and type of land vegetated.*
Measures – Construction
Construction
C-1 Use Alternative Fuels for Construction Equipment *Range of Effectiveness:* 0-22% reduction in GHG emissions.
C-1 Urban Tree Planting *Range of Effectiveness:* CO_2 reduction varies by number of trees. VOC emissions may increase.

C-2 Use Electric and Hybrid Construction Equipment

Range of Effectiveness: 2.5-80% of GHG emissions from equipment that is electric or hybrid if used 100% of the time.

C-3 Limit Construction Equipment Idling Beyond Regulation Requirements

Range of Effectiveness: Varies with the amount of Project Idling occurring and the amount reduced.

C-4 Institute a Heavy-Duty Off-Road Vehicle Plan, including:

- Construction vehicle inventory tracking system;
- Requiring hour meters on equipment;
- Document the serial number, horsepower, manufacture age, fuel, etc. of all onsite equipment; and
- Daily logging of the operating hours of the equipment.

Range of Effectiveness: Not applicable on its own. This measure ensures compliance with other mitigation measures.

C-5 Implement a Construction Vehicle Inventory Tracking System

Range of Effectiveness: Not applicable on its own. This measure ensures compliance with other mitigation measures.

Measures – Miscellaneous

Miscellaneous

Misc-1 Establish a Carbon Sequestration Project, such as:

- Geologic sequestration or carbon capture and storage techniques, in which CO_2 from point sources is captured and injected underground;
- Terrestrial sequestration in which ecosystems are established or preserved to serve as CO_2 sinks;
- Novel techniques involving advanced chemical or biological pathways; or
- Technologies yet to be discovered.

Range of Effectiveness: Varies depending on Project Applicant and projects selected. The GHG emissions reduction is subtracted from the overall baseline project emissions inventory.

Misc-2 Establish Off-Site Mitigation

Range of Effectiveness: Varies depending on Project Applicant and projects selected. The GHG emissions reduction is subtracted from the overall baseline project emissions inventory.

Misc-3 Use Local and Sustainable Building Materials

Range of Effectiveness: Varies depending on Project Applicant and strategies selected. Best Management Practice.

Misc-4 Require best Management Practices in Agriculture and Animal Operations

Misc-5 Require Environmentally Responsible Purchasing, such as:

- Purchasing products with sustainable packaging;
- Purchasing post-consumer recycled copier paper, paper towels, and stationary;
- Purchasing and stocking communal kitchens with reusable dishes and utensils;
- Choosing sustainable cleaning supplies;
- Leasing equipment from manufacturers who will recycle the components at their end of life;
- Choosing ENERGY STAR appliances and Water Sense-certified water fixtures;
- Choosing electronic appliances with built in sleep-mode timers;
- Purchasing 'green power' (e.g. electricity generated from renewable or hydropower) from the utility; and
- Choosing locally-made and distributed products.

Range of Effectiveness: Varies depending on Project Applicant and strategies selected. Best Management Practice.

Misc-6 Implement an Innovative Strategy for GHG Mitigation

Range of Effectiveness: Varies depending on Project Applicant and strategies selected. Best Management Practice.

Measures – General Plans

General Plans

GP-1 Fund Incentives for Energy Efficiency, such as:

• Retrofitting or designing new buildings, parking lots, streets, and public areas with energy-efficient lighting; • Retrofitting or designing new buildings with low-flow water fixtures and high-efficiency appliances; • Retrofitting or purchasing new low-emissions equipment; • Purchasing electric or hybrid vehicles; • Investing in renewable energy systems *Range of Effectiveness:* Varies depending on Project Applicant and strategies selected. Best Management Practice.
GP-2 Establish a Local Farmer's Market *Range of Effectiveness:* Varies depending on Project Applicant and strategies selected. Best Management Practice.
GP-3 Establish Community Gardens *Range of Effectiveness:* Varies depending on Project Applicant and strategies selected. Best Management Practice.
GP-4 Plant Urban Shade Trees *Range of Effectiveness:* The reduction in GHG emissions is not quantifiable at this time, therefore this mitigation measure should be implemented as a Best Management Practice. If the study data were updated to account for Title 24 standards, the GHG emissions reductions could be quantified, but would vary based on location, building type, and building size.
GP-5 Implement Strategies to Reduce Urban Heat-Island Effect, such as: • Planting urban shade trees; • Installing reflective roofs; and • Using light-colored or high-albedo pavements and surfaces. *Range of Effectiveness:* The reduction in GHG emissions is not quantifiable at this time, therefore this mitigation measure should be implemented as a Best Management Practice. If the study data were updated to account for Title 24 standards, the GHG emissions reductions could be quantified, but would vary based on location, building type, and building size.

Furthermore, in an effort to reduce the Project's emissions, we identified several mitigation measures that are applicable to the proposed Project from NEDC's *Diesel Emission Controls in Construction Projects.*[49] Therefore, to reduce the Project's emissions, consideration of the following measures should be made:

NEDC's *Diesel Emission Controls in Construction Projects*[50]
Measures – Diesel Emission Control Technology
a. Diesel Onroad Vehicles All diesel nonroad vehicles on site for more than 10 total days must have either (1) engines that meet EPA onroad emissions standards or (2) emission control technology verified by EPA or CARB to reduce PM emissions by a minimum of 85%.
b. Diesel Generators All diesel generators on site for more than 10 total days must be equipped with emission control technology verified by EPA or CARB to reduce PM emissions by a minimum of 85%.
c. Diesel Nonroad Construction Equipment

[49] "Diesel Emission Controls in Construction Projects." Northeast Diesel Collaborative (NEDC), December 2010, *available at:* https://www.epa.gov/sites/production/files/2015-09/documents/nedc-model-contract-sepcification.pdf.

[50] "Diesel Emission Controls in Construction Projects." Northeast Diesel Collaborative (NEDC), December 2010, *available at:* https://www.epa.gov/sites/production/files/2015-09/documents/nedc-model-contract-sepcification.pdf.

i. All nonroad diesel engines on site must be Tier 2 or higher. Tier 0 and Tier 1 engines are not allowed on site ii. All diesel nonroad construction equipment on site for more than 10 total days must have either (1) engines meeting EPA Tier 4 nonroad emission standards or (2) emission control technology verified by EPA or CARB for use with nonroad engines to reduce PM emissions by a minimum of 85% for engines 50hp and greater and by a minimum of 20% for engines less than 50hp.
d. Upon confirming that the diesel vehicle, construction equipment, or generator has either an engine meeting Tier 4 non road emission standards or emission control technology, as specified above, installed and functioning, the developer will issue a compliance sticker. All diesel vehicles, construction equipment, and generators on site shall display the compliance sticker in a visible, external location as designated by the developer.
e. Emission control technology shall be operated, maintained, and serviced as recommended by the emission control technology manufacturer.
f. All diesel vehicles, construction equipment, and generators on site shall be fueled with ultra-low sulfur diesel fuel (ULSD) or a biodiesel blend[51] approved by the original engine manufacturer with sulfur content of 15 ppm or less.
Measures – Idling Requirements
During periods of inactivity, idling of diesel onroad vehicles and nonroad equipment shall be minimized and shall not exceed the time allowed under state and local laws.
Measures – Additional Diesel Requirements
a. Construction shall not proceed until the contractor submits a certified list of all diesel vehicles, construction equipment, and generators to be used on site. The list shall include the following: i. Contractor and subcontractor name and address, plus contact person responsible for the vehicles or equipment. ii. Equipment type, equipment manufacturer, equipment serial number, engine manufacturer, engine model year, engine certification (Tier rating), horsepower, engine serial number, and expected fuel usage and hours of operation. iii. For the emission control technology installed: technology type, serial number, make, model, manufacturer, EPA/CARB verification number/level, and installation date and hour-meter reading on installation date.
b. If the contractor subsequently needs to bring on site equipment not on the list, the contractor shall submit written notification within 24 hours that attests the equipment complies with all contract conditions and provide information.
c. All diesel equipment shall comply with all pertinent local, state, and federal regulations relative to exhaust emission controls and safety.
d. The contractor shall establish generator sites and truck-staging zones for vehicles waiting to load or unload material on site. Such zones shall be located where diesel emissions have the least impact on abutters, the general public, and especially sensitive receptors such as hospitals, schools, daycare facilities, elderly housing, and convalescent facilities.
Reporting
a. For each onroad diesel vehicle, nonroad construction equipment, or generator, the contractor shall submit to the developer's representative a report prior to bringing said equipment on site that includes: i. Equipment type, equipment manufacturer, equipment serial number, engine manufacturer, engine model year, engine certification (Tier rating), horsepower, and engine serial number. ii. The type of emission control technology installed, serial number, make, model, manufacturer, and EPA/CARB verification number/level.

[51] Biodiesel blends are only to be used in conjunction with the technologies which have been verified for use with biodiesel blends and are subject to the following requirements: http://www.arb.ca.gov/diesel/verdev/reg/biodieselcompliance.pdf.

iii. The Certification Statement signed and printed on the contractor's letterhead.
b. The contractor shall submit to the developer's representative a monthly report that, for each onroad diesel vehicle, nonroad construction equipment, or generator onsite, includes: i. Hour-meter readings on arrival on-site, the first and last day of every month, and on off-site date. ii. Any problems with the equipment or emission controls. iii. Certified copies of fuel deliveries for the time period that identify: 1. Source of supply 2. Quantity of fuel 3. Quality of fuel, including sulfur content (percent by weight)

Finally, in an effort to reduce the Project's emissions, we identified several mitigation measures that are applicable to the proposed Project from the Sacramento Metropolitan Air Quality Management District's ("SMAQMD") *Basic Construction Emission Control Practices (Best Management Practices)* and *Enhanced Exhaust Control Practices*.[52, 53] Therefore, to reduce the Project's emissions, consideration of the following measures should be made:

SMAQMD's *Basic Construction Emission Control Practices*[54]
The following Basic Construction Emissions Control Practices are considered feasible for controlling fugitive dust from a construction site. The practices also serve as best management practices (BMPs), allowing the use of the non-zero particulate matter significance thresholds. Lead agencies should add these emission control practices as Conditions of Approval (COA) or include in a Mitigation Monitoring and Reporting Program (MMRP).
Control of fugitive dust is required by District Rule 403 and enforced by District staff.
Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered.
Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited.
Limit vehicle speeds on unpaved roads to 15 miles per hour (mph).
All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.
The following practices describe exhaust emission control from diesel powered fleets working at a construction site. California regulations limit idling from both on-road and offroad diesel-powered equipment. The California Air Resources Board (CARB) enforces idling limitations and compliance with diesel fleet regulations.

[52] "Basic Construction Emission Control Practices (Best Management Practices)." Sacramento Metropolitan Air Quality Management District (SMAQMD), July 2019, *available at:* https://www.epa.gov/sites/production/files/2015-09/documents/nedc-model-contract-sepcification.pdf.
[53] "Enhanced Exhaust Control Practices." Sacramento Metropolitan Air Quality Management District (SMAQMD)October 2013, *available at:* http://www.airquality.org/LandUseTransportation/Documents/Ch3EnhancedExhaustControlFINAL10-2013.pdf.
[54] "Basic Construction Emission Control Practices (Best Management Practices)." Sacramento Metropolitan Air Quality Management District (SMAQMD), July 2019, *available at:* https://www.epa.gov/sites/production/files/2015-09/documents/nedc-model-contract-sepcification.pdf.

Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [California Code of Regulations, Title 13, sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site.
Provide current certificate(s) of compliance for CARB's In-Use Off-Road Diesel-Fueled Fleets Regulation [California Code of Regulations, Title 13, sections 2449 and 2449.1].
Although not required by local or state regulation, many construction companies have equipment inspection and maintenance programs to ensure work and fuel efficiencies
Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.
SMAQMD's *Enhanced Exhaust Control Practices*[55]
1. The project representative shall submit to the lead agency and District a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 horsepower, that will be used an aggregate of 40 or more hours during any portion of the construction project. • The inventory shall include the horsepower rating, engine model year, and projected hours of use for each piece of equipment. • The project representative shall provide the anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman. • This information shall be submitted at least 4 business days prior to the use of subject heavy-duty off-road equipment. • The District's Equipment List Form can be used to submit this information. • The inventory shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs.
2. The project representative shall provide a plan for approval by the lead agency and District demonstrating that the heavy-duty off-road vehicles (50 horsepower or more) to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average 20% NOX reduction and 45% particulate reduction compared to the most recent California Air Resources Board (ARB) fleet average. • This plan shall be submitted in conjunction with the equipment inventory. • Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. • The District's Construction Mitigation Calculator can be used to identify an equipment fleet that achieves this reduction.
3. The project representative shall ensure that emissions from all off-road diesel powered equipment used on the project site do not exceed 40% opacity for more than three minutes in any one hour. • Any equipment found to exceed 40 percent opacity (or Ringelmann 2.0) shall be repaired immediately. • Non-compliant equipment will be documented and a summary provided to the lead agency and District monthly. • A visual survey of all in-operation equipment shall be made at least weekly. • A monthly summary of the visual survey results shall be submitted throughout the duration of the project, except that the monthly summary shall not be required for any 30-day period in

[55] "Enhanced Exhaust Control Practices." Sacramento Metropolitan Air Quality Management District (SMAQMD)October 2013, *available at:* http://www.airquality.org/LandUseTransportation/Documents/Ch3EnhancedExhaustControlFINAL10-2013.pdf.

	which no construction activity occurs. The monthly summary shall include the quantity and type of vehicles surveyed as well as the dates of each survey.
4.	The District and/or other officials may conduct periodic site inspections to determine compliance. Nothing in this mitigation shall supersede other District, state or federal rules or regulations.

These measures offer a cost-effective, feasible way to incorporate lower-emitting design features into the proposed Project, which subsequently, reduce emissions released during Project construction and operation. An updated EIR should be prepared to include ***all feasible*** mitigation measures, as well as include an updated air quality and GHG analysis to ensure that the necessary mitigation measures are implemented to reduce emissions to below thresholds. The updated EIR should also demonstrate a commitment to the implementation of these measures prior to Project approval, to ensure that the Project's significant emissions are reduced to the maximum extent possible.

SWAPE has received limited discovery regarding this project. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

Sincerely,

Matt Hagemann, P.G., C.Hg.

Paul E. Rosenfeld, Ph.D.

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AERSCREEN 16216 / AERMOD 19191                                        08/18/20
                                                                      14:50:57

TITLE: Phase 1 Construction


-----------------------------------------------------------------------------
****************************  AREA PARAMETERS  ***************************
-----------------------------------------------------------------------------

SOURCE EMISSION RATE:         0.340E-02 g/s            0.270E-01 lb/hr

AREA EMISSION RATE:           0.344E-07 g/(s-m2)       0.273E-06 lb/(hr-m2)
AREA HEIGHT:                       3.00 meters              9.84 feet
AREA SOURCE LONG SIDE:           326.00 meters           1069.55 feet
AREA SOURCE SHORT SIDE:          303.00 meters            994.09 feet
INITIAL VERTICAL DIMENSION:        1.50 meters              4.92 feet
RURAL OR URBAN:                   URBAN
POPULATION:                     3990000

INITIAL PROBE DISTANCE =          5000. meters            16404. feet



-----------------------------------------------------------------------------
***********************  BUILDING DOWNWASH PARAMETERS  **********************
-----------------------------------------------------------------------------

               BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES



-----------------------------------------------------------------------------
**************************  FLOW SECTOR ANALYSIS  **************************
                 25 meter receptor spacing: 1. meters - 5000. meters
-----------------------------------------------------------------------------


   MAXIMUM  IMPACT  RECEPTOR

   Zo        SURFACE   1-HR CONC  RADIAL  DIST   TEMPORAL
   SECTOR    ROUGHNESS  (ug/m3)    (deg)   (m)    PERIOD
  ---------------------------------------------------
      1*       1.000     1.422      40   200.0     WIN
* = worst case diagonal



-----------------------------------------------------------------------------
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**********************  MAKEMET METEOROLOGY PARAMETERS  *********************
--------------------------------------------------------------------------------

MIN/MAX TEMPERATURE:    250.0 / 310.0 (K)

MINIMUM WIND SPEED:       0.5 m/s

ANEMOMETER HEIGHT:     10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE:    Average Moisture
DOMINANT SEASON:          Winter

ALBEDO:                  0.35
BOWEN RATIO:             1.50
ROUGHNESS LENGTH:       1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED


       METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT
       -------------------------------------------------------------

 YR MO DY JDY HR
 -- -- -- --- --
 10 01 10  10 01

    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 -1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50

    HT  REF TA     HT
- - - - - - - - - - -
  10.0   310.0    2.0



--------------------------------------------------------------------------------
************************ AERSCREEN AUTOMATED DISTANCES *********************
                  OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
--------------------------------------------------------------------------------


                      MAXIMUM                            MAXIMUM
           DIST     1-HR CONC                  DIST     1-HR CONC
            (m)      (ug/m3)                    (m)      (ug/m3)
         ---------------------              ---------------------
           1.00     1.073                   2525.00    0.4712E-01
```

25.00	1.121	2550.00	0.4651E-01
50.00	1.172	2575.00	0.4591E-01
75.00	1.219	2600.00	0.4532E-01
100.00	1.264	2625.00	0.4475E-01
125.00	1.306	2650.00	0.4420E-01
150.00	1.347	2675.00	0.4365E-01
175.00	1.386	2700.00	0.4312E-01
200.00	1.422	2725.00	0.4259E-01
225.00	1.230	2750.00	0.4208E-01
250.00	0.9399	2775.00	0.4157E-01
275.00	0.8341	2800.00	0.4108E-01
300.00	0.7218	2825.00	0.4059E-01
325.00	0.6398	2850.00	0.4012E-01
350.01	0.5763	2875.00	0.3965E-01
375.01	0.5252	2900.00	0.3920E-01
400.00	0.4831	2925.00	0.3875E-01
425.00	0.4473	2950.00	0.3831E-01
450.00	0.4166	2975.00	0.3787E-01
475.00	0.3898	3000.00	0.3745E-01
500.00	0.3661	3025.00	0.3703E-01
525.00	0.3450	3050.00	0.3662E-01
549.99	0.3261	3075.00	0.3622E-01
575.00	0.3089	3100.00	0.3583E-01
600.00	0.2934	3125.00	0.3545E-01
625.00	0.2792	3150.00	0.3507E-01
650.00	0.2663	3174.99	0.3470E-01
675.00	0.2545	3199.99	0.3434E-01
700.00	0.2434	3225.00	0.3399E-01
725.00	0.2332	3250.00	0.3364E-01
750.00	0.2238	3275.00	0.3329E-01
775.00	0.2149	3300.00	0.3295E-01
800.00	0.2067	3325.00	0.3262E-01
825.00	0.1990	3350.00	0.3230E-01
850.00	0.1918	3375.00	0.3197E-01
875.00	0.1850	3400.00	0.3166E-01
900.00	0.1787	3425.01	0.3135E-01
924.99	0.1727	3450.00	0.3104E-01
950.00	0.1671	3475.00	0.3074E-01
975.00	0.1618	3500.00	0.3044E-01
1000.00	0.1567	3525.00	0.3015E-01
1025.00	0.1519	3550.00	0.2987E-01
1050.00	0.1474	3575.00	0.2959E-01
1075.00	0.1431	3600.00	0.2931E-01
1100.00	0.1390	3625.00	0.2904E-01
1125.00	0.1351	3650.00	0.2877E-01
1150.00	0.1314	3675.00	0.2851E-01
1175.00	0.1279	3700.00	0.2825E-01
1200.00	0.1245	3725.00	0.2799E-01
1225.00	0.1212	3750.00	0.2774E-01
1250.00	0.1182	3775.00	0.2749E-01

1275.00	0.1152	3800.00	0.2725E-01
1300.00	0.1124	3825.00	0.2701E-01
1325.00	0.1097	3850.00	0.2678E-01
1350.00	0.1071	3875.00	0.2654E-01
1375.00	0.1046	3900.00	0.2631E-01
1400.00	0.1022	3925.00	0.2609E-01
1425.00	0.9987E-01	3950.00	0.2587E-01
1450.00	0.9765E-01	3975.00	0.2565E-01
1475.00	0.9553E-01	4000.00	0.2543E-01
1500.00	0.9347E-01	4025.00	0.2522E-01
1525.00	0.9148E-01	4050.00	0.2501E-01
1550.00	0.8957E-01	4075.00	0.2481E-01
1575.00	0.8773E-01	4100.00	0.2461E-01
1600.00	0.8595E-01	4125.00	0.2441E-01
1625.00	0.8423E-01	4150.00	0.2421E-01
1650.00	0.8258E-01	4175.00	0.2401E-01
1675.00	0.8099E-01	4200.00	0.2382E-01
1700.00	0.7942E-01	4225.00	0.2363E-01
1725.00	0.7792E-01	4250.00	0.2344E-01
1750.00	0.7647E-01	4275.00	0.2326E-01
1775.00	0.7507E-01	4300.00	0.2308E-01
1800.00	0.7370E-01	4325.00	0.2290E-01
1825.00	0.7238E-01	4350.00	0.2272E-01
1850.00	0.7110E-01	4375.00	0.2254E-01
1875.00	0.6985E-01	4400.00	0.2237E-01
1900.00	0.6864E-01	4425.00	0.2220E-01
1925.00	0.6748E-01	4450.00	0.2203E-01
1950.00	0.6635E-01	4475.00	0.2186E-01
1975.00	0.6524E-01	4500.00	0.2170E-01
2000.00	0.6417E-01	4525.00	0.2154E-01
2025.00	0.6313E-01	4550.00	0.2138E-01
2050.00	0.6211E-01	4575.00	0.2122E-01
2075.00	0.6113E-01	4600.00	0.2106E-01
2100.00	0.6017E-01	4625.00	0.2091E-01
2125.00	0.5924E-01	4650.00	0.2076E-01
2150.00	0.5833E-01	4675.00	0.2061E-01
2175.00	0.5744E-01	4700.00	0.2046E-01
2200.00	0.5657E-01	4725.00	0.2031E-01
2225.00	0.5574E-01	4750.00	0.2017E-01
2250.00	0.5492E-01	4775.00	0.2003E-01
2275.00	0.5413E-01	4800.00	0.1989E-01
2300.00	0.5335E-01	4825.00	0.1975E-01
2325.00	0.5259E-01	4850.00	0.1961E-01
2350.00	0.5185E-01	4875.00	0.1947E-01
2375.00	0.5113E-01	4900.00	0.1934E-01
2400.00	0.5042E-01	4924.99	0.1921E-01
2425.00	0.4973E-01	4950.00	0.1908E-01
2450.00	0.4906E-01	4975.00	0.1895E-01
2475.00	0.4839E-01	5000.00	0.1882E-01
2500.00	0.4775E-01		

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-----------------------------------------------------------------------------
**********************  AERSCREEN MAXIMUM IMPACT SUMMARY  ********************
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3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

                     MAXIMUM      SCALED      SCALED      SCALED      SCALED
                      1-HOUR      3-HOUR      8-HOUR     24-HOUR      ANNUAL
  CALCULATION          CONC        CONC        CONC        CONC        CONC
   PROCEDURE         (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)
---------------    ----------  ----------  ----------  ----------  ----------
FLAT TERRAIN        1.435       1.435       1.435       1.435         N/A

DISTANCE FROM SOURCE        210.00 meters



IMPACT AT THE
AMBIENT BOUNDARY    1.073       1.073       1.073       1.073         N/A

DISTANCE FROM SOURCE          1.00 meters
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 Concentration     Distance Elevation  Diag  Season/Month   Zo sector       Date
  H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS     HT
REF TA     HT
   0.10734E+01         1.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11214E+01        25.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11718E+01        50.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12192E+01        75.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12639E+01       100.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13064E+01       125.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13469E+01       150.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13863E+01       175.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14220E+01       200.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
*  0.14354E+01       210.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12296E+01       225.00      0.00  45.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.93986E+00       250.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.83410E+00       275.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.72176E+00       300.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.63976E+00       325.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57625E+00       350.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.52521E+00       375.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48305E+00       400.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44734E+00       425.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41657E+00       450.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38978E+00       475.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36609E+00       500.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34495E+00       525.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32610E+00       549.99      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30894E+00       575.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29336E+00       600.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27925E+00       625.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26632E+00       650.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25445E+00       675.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24339E+00       700.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23321E+00       725.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22376E+00       750.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21490E+00       775.00      0.00  35.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20667E+00       800.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19904E+00       825.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19184E+00       850.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18503E+00       875.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17867E+00       900.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17272E+00       924.99      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16709E+00       950.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16177E+00       975.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15669E+00      1000.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15191E+00      1025.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14741E+00      1050.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14309E+00      1075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13900E+00      1100.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13511E+00      1125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13143E+00      1150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12788E+00      1175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.12448E+00      1200.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12125E+00      1225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11817E+00      1250.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11523E+00      1275.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11239E+00      1300.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10967E+00      1325.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10708E+00      1350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10458E+00      1375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10217E+00      1400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.99867E-01      1425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.97653E-01      1450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.95527E-01      1475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.93465E-01      1500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.91475E-01      1525.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.89570E-01      1550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.87728E-01      1575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.85950E-01      1600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.84232E-01      1625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82582E-01      1650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.80985E-01      1675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.79422E-01      1700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77915E-01      1725.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.76469E-01      1750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.75067E-01      1775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.73696E-01      1800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.72377E-01      1825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.71095E-01      1850.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69847E-01      1875.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68641E-01      1900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.67475E-01      1925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.66347E-01      1950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.65242E-01      1975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64168E-01      2000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.63125E-01      2025.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62112E-01      2050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61129E-01      2075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.60172E-01      2100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59242E-01      2125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58333E-01      2150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57442E-01      2175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56575E-01      2200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55738E-01      2225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54923E-01      2250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54125E-01      2275.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53347E-01      2300.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52589E-01      2325.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51849E-01      2350.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51127E-01      2375.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50421E-01      2400.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49730E-01      2425.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.49056E-01      2450.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48395E-01      2475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47751E-01      2500.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47123E-01      2525.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46508E-01      2550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45908E-01      2575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45324E-01      2600.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44753E-01      2625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44195E-01      2650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43650E-01      2675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43116E-01      2700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42592E-01      2725.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42076E-01      2750.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41571E-01      2775.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41076E-01      2800.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40592E-01      2825.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40117E-01      2850.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.39652E-01      2875.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39197E-01      2900.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38748E-01      2925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38305E-01      2950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37872E-01      2975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37447E-01      3000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37030E-01      3025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36622E-01      3050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36223E-01      3075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35832E-01      3100.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35449E-01      3125.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35073E-01      3150.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34704E-01      3174.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34341E-01      3199.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33986E-01      3225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33636E-01      3250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33293E-01      3275.00      0.00  15.0        Winter       0-360   10011001
```

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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32955E-01      3300.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32623E-01      3325.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32296E-01      3350.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31975E-01      3375.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31658E-01      3400.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31346E-01      3425.01      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31040E-01      3450.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30738E-01      3475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30443E-01      3500.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30152E-01      3525.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29866E-01      3550.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29585E-01      3575.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29309E-01      3600.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29037E-01      3625.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28769E-01      3650.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28505E-01      3675.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.28246E-01      3700.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27991E-01      3725.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27740E-01      3750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27493E-01      3775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27251E-01      3800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27011E-01      3825.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26775E-01      3850.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26543E-01      3875.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26315E-01      3900.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26089E-01      3925.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25867E-01      3950.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25649E-01      3975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25434E-01      4000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25223E-01      4025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25014E-01      4050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24809E-01      4075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24606E-01      4100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.24407E-01      4125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24210E-01      4150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24014E-01      4175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23822E-01      4200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23632E-01      4225.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23445E-01      4250.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23260E-01      4275.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23078E-01      4300.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22898E-01      4325.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22721E-01      4350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22544E-01      4375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22371E-01      4400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22200E-01      4425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22031E-01      4450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21864E-01      4475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21699E-01      4500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21537E-01      4525.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21377E-01      4550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21219E-01      4575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21063E-01      4600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20909E-01      4625.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20757E-01      4650.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20607E-01      4675.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20458E-01      4700.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20313E-01      4725.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20169E-01      4750.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20026E-01      4775.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19886E-01      4800.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19747E-01      4825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19610E-01      4850.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19474E-01      4875.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19341E-01      4900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19209E-01      4924.99      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.19078E-01      4950.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18949E-01      4975.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18822E-01      5000.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
AERSCREEN 16216 / AERMOD 19191                                        08/18/20
                                                                      14:52:56

TITLE: Phase 2 Construction


-----------------------------------------------------------------------------
****************************  AREA PARAMETERS  ***************************
-----------------------------------------------------------------------------

SOURCE EMISSION RATE:         0.282E-02 g/s             0.224E-01 lb/hr

AREA EMISSION RATE:           0.286E-07 g/(s-m2)        0.227E-06 lb/(hr-m2)
AREA HEIGHT:                       3.00 meters               9.84 feet
AREA SOURCE LONG SIDE:           326.00 meters            1069.55 feet
AREA SOURCE SHORT SIDE:          303.00 meters             994.09 feet
INITIAL VERTICAL DIMENSION:        1.50 meters               4.92 feet
RURAL OR URBAN:                   URBAN
POPULATION:                     3990000

INITIAL PROBE DISTANCE =          5000. meters             16404. feet



-----------------------------------------------------------------------------
***********************  BUILDING DOWNWASH PARAMETERS  **********************
-----------------------------------------------------------------------------

               BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES



-----------------------------------------------------------------------------
**************************  FLOW SECTOR ANALYSIS  **************************
                 25 meter receptor spacing: 1. meters - 5000. meters
-----------------------------------------------------------------------------


   MAXIMUM  IMPACT  RECEPTOR

   Zo        SURFACE   1-HR CONC  RADIAL  DIST   TEMPORAL
   SECTOR    ROUGHNESS  (ug/m3)    (deg)   (m)    PERIOD
  ---------------------------------------------------
      1*       1.000     1.179      40   200.0     WIN
* = worst case diagonal



-----------------------------------------------------------------------------
```

```
**********************  MAKEMET METEOROLOGY PARAMETERS  *********************
--------------------------------------------------------------------------------

MIN/MAX TEMPERATURE:    250.0 / 310.0 (K)

MINIMUM WIND SPEED:       0.5 m/s

ANEMOMETER HEIGHT:     10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE:    Average Moisture
DOMINANT SEASON:          Winter

ALBEDO:                  0.35
BOWEN RATIO:             1.50
ROUGHNESS LENGTH:       1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED


       METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT
       -------------------------------------------------------------

 YR MO DY JDY HR
 -- -- -- --- --
 10 01 10  10 01

    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 -1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50

    HT  REF TA     HT
- - - - - - - - - - -
  10.0   310.0    2.0



--------------------------------------------------------------------------------
************************ AERSCREEN AUTOMATED DISTANCES *********************
                  OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
--------------------------------------------------------------------------------


                      MAXIMUM                            MAXIMUM
           DIST     1-HR CONC                  DIST     1-HR CONC
            (m)      (ug/m3)                    (m)      (ug/m3)
         ---------------------              ---------------------
           1.00    0.8901                   2525.00    0.3908E-01
```

25.00	0.9300	2550.00	0.3857E-01
50.00	0.9718	2575.00	0.3807E-01
75.00	1.011	2600.00	0.3759E-01
100.00	1.048	2625.00	0.3711E-01
125.00	1.083	2650.00	0.3665E-01
150.00	1.117	2675.00	0.3620E-01
175.00	1.150	2700.00	0.3575E-01
200.00	1.179	2725.00	0.3532E-01
225.00	1.020	2750.00	0.3489E-01
250.00	0.7794	2775.00	0.3447E-01
275.00	0.6917	2800.00	0.3406E-01
300.00	0.5985	2825.00	0.3366E-01
325.00	0.5305	2850.00	0.3327E-01
350.01	0.4779	2875.00	0.3288E-01
375.01	0.4355	2900.00	0.3250E-01
400.00	0.4006	2925.00	0.3213E-01
425.00	0.3710	2950.00	0.3177E-01
450.00	0.3455	2975.00	0.3141E-01
475.00	0.3232	3000.00	0.3105E-01
500.00	0.3036	3025.00	0.3071E-01
525.00	0.2861	3050.00	0.3037E-01
549.99	0.2704	3075.00	0.3004E-01
575.00	0.2562	3100.00	0.2971E-01
600.00	0.2433	3125.00	0.2940E-01
625.00	0.2316	3150.00	0.2908E-01
650.00	0.2209	3174.99	0.2878E-01
675.00	0.2110	3199.99	0.2848E-01
700.00	0.2018	3225.00	0.2818E-01
725.00	0.1934	3250.00	0.2789E-01
750.00	0.1856	3275.00	0.2761E-01
775.00	0.1782	3300.00	0.2733E-01
800.00	0.1714	3325.00	0.2705E-01
825.00	0.1651	3350.00	0.2678E-01
850.00	0.1591	3375.00	0.2652E-01
875.00	0.1534	3400.00	0.2625E-01
900.00	0.1482	3425.01	0.2599E-01
924.99	0.1432	3450.00	0.2574E-01
950.00	0.1386	3475.00	0.2549E-01
975.00	0.1342	3500.00	0.2525E-01
1000.00	0.1299	3525.00	0.2500E-01
1025.00	0.1260	3550.00	0.2477E-01
1050.00	0.1222	3575.00	0.2453E-01
1075.00	0.1187	3600.00	0.2431E-01
1100.00	0.1153	3625.00	0.2408E-01
1125.00	0.1120	3650.00	0.2386E-01
1150.00	0.1090	3675.00	0.2364E-01
1175.00	0.1060	3700.00	0.2342E-01
1200.00	0.1032	3725.00	0.2321E-01
1225.00	0.1005	3750.00	0.2300E-01
1250.00	0.9799E-01	3775.00	0.2280E-01

1275.00	0.9556E-01	3800.00	0.2260E-01
1300.00	0.9320E-01	3825.00	0.2240E-01
1325.00	0.9094E-01	3850.00	0.2220E-01
1350.00	0.8880E-01	3875.00	0.2201E-01
1375.00	0.8673E-01	3900.00	0.2182E-01
1400.00	0.8473E-01	3925.00	0.2164E-01
1425.00	0.8282E-01	3950.00	0.2145E-01
1450.00	0.8098E-01	3975.00	0.2127E-01
1475.00	0.7922E-01	4000.00	0.2109E-01
1500.00	0.7751E-01	4025.00	0.2092E-01
1525.00	0.7586E-01	4050.00	0.2074E-01
1550.00	0.7428E-01	4075.00	0.2057E-01
1575.00	0.7275E-01	4100.00	0.2041E-01
1600.00	0.7128E-01	4125.00	0.2024E-01
1625.00	0.6985E-01	4150.00	0.2008E-01
1650.00	0.6848E-01	4175.00	0.1991E-01
1675.00	0.6716E-01	4200.00	0.1975E-01
1700.00	0.6586E-01	4225.00	0.1960E-01
1725.00	0.6461E-01	4250.00	0.1944E-01
1750.00	0.6341E-01	4275.00	0.1929E-01
1775.00	0.6225E-01	4300.00	0.1914E-01
1800.00	0.6111E-01	4325.00	0.1899E-01
1825.00	0.6002E-01	4350.00	0.1884E-01
1850.00	0.5896E-01	4375.00	0.1870E-01
1875.00	0.5792E-01	4400.00	0.1855E-01
1900.00	0.5692E-01	4425.00	0.1841E-01
1925.00	0.5596E-01	4450.00	0.1827E-01
1950.00	0.5502E-01	4475.00	0.1813E-01
1975.00	0.5410E-01	4500.00	0.1799E-01
2000.00	0.5321E-01	4525.00	0.1786E-01
2025.00	0.5235E-01	4550.00	0.1773E-01
2050.00	0.5151E-01	4575.00	0.1760E-01
2075.00	0.5069E-01	4600.00	0.1747E-01
2100.00	0.4990E-01	4625.00	0.1734E-01
2125.00	0.4913E-01	4650.00	0.1721E-01
2150.00	0.4837E-01	4675.00	0.1709E-01
2175.00	0.4763E-01	4700.00	0.1697E-01
2200.00	0.4692E-01	4725.00	0.1684E-01
2225.00	0.4622E-01	4750.00	0.1673E-01
2250.00	0.4555E-01	4775.00	0.1661E-01
2275.00	0.4488E-01	4800.00	0.1649E-01
2300.00	0.4424E-01	4825.00	0.1638E-01
2325.00	0.4361E-01	4850.00	0.1626E-01
2350.00	0.4300E-01	4875.00	0.1615E-01
2375.00	0.4240E-01	4900.00	0.1604E-01
2400.00	0.4181E-01	4924.99	0.1593E-01
2425.00	0.4124E-01	4950.00	0.1582E-01
2450.00	0.4068E-01	4975.00	0.1571E-01
2475.00	0.4013E-01	5000.00	0.1561E-01
2500.00	0.3960E-01		

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-----------------------------------------------------------------------------
**********************  AERSCREEN MAXIMUM IMPACT SUMMARY  ********************
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3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

                     MAXIMUM      SCALED      SCALED      SCALED      SCALED
                      1-HOUR      3-HOUR      8-HOUR     24-HOUR      ANNUAL
  CALCULATION          CONC        CONC        CONC        CONC        CONC
   PROCEDURE         (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)
---------------    ----------  ----------  ----------  ----------  ----------
FLAT TERRAIN        1.190       1.190       1.190       1.190         N/A

DISTANCE FROM SOURCE        210.00 meters



IMPACT AT THE
AMBIENT BOUNDARY   0.8901      0.8901      0.8901      0.8901         N/A

DISTANCE FROM SOURCE          1.00 meters
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 Concentration     Distance Elevation  Diag  Season/Month   Zo sector       Date
  H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS     HT
REF TA     HT
   0.89013E+00         1.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.92996E+00        25.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.97175E+00        50.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10110E+01        75.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10481E+01       100.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10833E+01       125.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11169E+01       150.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11496E+01       175.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11792E+01       200.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
*  0.11904E+01       210.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10196E+01       225.00      0.00  45.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77940E+00       250.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69169E+00       275.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59853E+00       300.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53053E+00       325.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47787E+00       350.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.43554E+00       375.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40058E+00       400.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37096E+00       425.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34545E+00       450.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32323E+00       475.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30359E+00       500.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28606E+00       525.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27043E+00       549.99      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25620E+00       575.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24327E+00       600.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23157E+00       625.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22085E+00       650.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21101E+00       675.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20183E+00       700.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19339E+00       725.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18556E+00       750.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17821E+00       775.00      0.00  35.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17139E+00       800.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16506E+00       825.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15909E+00       850.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15344E+00       875.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14816E+00       900.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14323E+00       924.99      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13857E+00       950.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13415E+00       975.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12994E+00      1000.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12598E+00      1025.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12224E+00      1050.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11866E+00      1075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11527E+00      1100.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11204E+00      1125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10899E+00      1150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10605E+00      1175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.10323E+00      1200.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10054E+00      1225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.97994E-01      1250.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.95557E-01      1275.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.93200E-01      1300.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.90944E-01      1325.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.88797E-01      1350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.86727E-01      1375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.84730E-01      1400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82817E-01      1425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.80980E-01      1450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.79217E-01      1475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77508E-01      1500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.75858E-01      1525.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.74278E-01      1550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.72750E-01      1575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.71276E-01      1600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.69851E-01      1625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68483E-01      1650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.67158E-01      1675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.65862E-01      1700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64613E-01      1725.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.63413E-01      1750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62251E-01      1775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61114E-01      1800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.60020E-01      1825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58957E-01      1850.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57922E-01      1875.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56922E-01      1900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55955E-01      1925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55020E-01      1950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54103E-01      1975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53212E-01      2000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52348E-01      2025.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51508E-01      2050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50692E-01      2075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49899E-01      2100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49128E-01      2125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48374E-01      2150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47635E-01      2175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46916E-01      2200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46222E-01      2225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45546E-01      2250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44884E-01      2275.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44239E-01      2300.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43610E-01      2325.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42997E-01      2350.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42398E-01      2375.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41813E-01      2400.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41240E-01      2425.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.40681E-01      2450.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40132E-01      2475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39598E-01      2500.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39077E-01      2525.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38568E-01      2550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38070E-01      2575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37586E-01      2600.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37113E-01      2625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36650E-01      2650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36197E-01      2675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35755E-01      2700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35320E-01      2725.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34892E-01      2750.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34473E-01      2775.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34063E-01      2800.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33661E-01      2825.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33268E-01      2850.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.32883E-01      2875.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32505E-01      2900.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32132E-01      2925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31765E-01      2950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31406E-01      2975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31054E-01      3000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30708E-01      3025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30369E-01      3050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30038E-01      3075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29714E-01      3100.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29397E-01      3125.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29085E-01      3150.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28779E-01      3174.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28478E-01      3199.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28183E-01      3225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27894E-01      3250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27609E-01      3275.00      0.00  15.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27328E-01      3300.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27053E-01      3325.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26782E-01      3350.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26516E-01      3375.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26253E-01      3400.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25995E-01      3425.01      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25740E-01      3450.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25490E-01      3475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25245E-01      3500.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25004E-01      3525.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24767E-01      3550.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24534E-01      3575.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24305E-01      3600.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24080E-01      3625.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23857E-01      3650.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23638E-01      3675.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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```
   0.23423E-01      3700.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23212E-01      3725.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23004E-01      3750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22799E-01      3775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22598E-01      3800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22400E-01      3825.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22204E-01      3850.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22011E-01      3875.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21822E-01      3900.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21635E-01      3925.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21451E-01      3950.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21270E-01      3975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21092E-01      4000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20916E-01      4025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20744E-01      4050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20573E-01      4075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20405E-01      4100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
```

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 310.0    2.0
   0.20240E-01      4125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20076E-01      4150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19914E-01      4175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19755E-01      4200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19597E-01      4225.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19442E-01      4250.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19289E-01      4275.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19138E-01      4300.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18989E-01      4325.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18841E-01      4350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18695E-01      4375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18552E-01      4400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18409E-01      4425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18269E-01      4450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18131E-01      4475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17994E-01      4500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17860E-01      4525.00      0.00   0.0        Winter       0-360   10011001
```

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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17727E-01      4550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17596E-01      4575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17467E-01      4600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17339E-01      4625.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17213E-01      4650.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17089E-01      4675.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16965E-01      4700.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16845E-01      4725.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16725E-01      4750.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16607E-01      4775.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16491E-01      4800.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16375E-01      4825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16262E-01      4850.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16149E-01      4875.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16038E-01      4900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15929E-01      4924.99      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
   0.15821E-01      4950.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15714E-01      4975.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15608E-01      5000.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
AERSCREEN 16216 / AERMOD 19191                                        08/18/20
                                                                      14:54:47

TITLE: Phase 3 Construction


-----------------------------------------------------------------------------
****************************  AREA PARAMETERS  ***************************
-----------------------------------------------------------------------------

SOURCE EMISSION RATE:         0.179E-02 g/s             0.142E-01 lb/hr

AREA EMISSION RATE:           0.182E-07 g/(s-m2)        0.144E-06 lb/(hr-m2)
AREA HEIGHT:                       3.00 meters               9.84 feet
AREA SOURCE LONG SIDE:           326.00 meters            1069.55 feet
AREA SOURCE SHORT SIDE:          303.00 meters             994.09 feet
INITIAL VERTICAL DIMENSION:        1.50 meters               4.92 feet
RURAL OR URBAN:                   URBAN
POPULATION:                     3990000

INITIAL PROBE DISTANCE =          5000. meters             16404. feet



-----------------------------------------------------------------------------
***********************  BUILDING DOWNWASH PARAMETERS  **********************
-----------------------------------------------------------------------------

               BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES



-----------------------------------------------------------------------------
**************************  FLOW SECTOR ANALYSIS  **************************
                 25 meter receptor spacing: 1. meters - 5000. meters
-----------------------------------------------------------------------------


   MAXIMUM  IMPACT  RECEPTOR

   Zo        SURFACE   1-HR CONC  RADIAL  DIST   TEMPORAL
   SECTOR    ROUGHNESS  (ug/m3)    (deg)   (m)    PERIOD
  ---------------------------------------------------
      1*       1.000    0.7498      40   200.0     WIN
* = worst case diagonal



-----------------------------------------------------------------------------
```

```
**********************  MAKEMET METEOROLOGY PARAMETERS  *********************
--------------------------------------------------------------------------------

MIN/MAX TEMPERATURE:    250.0 / 310.0 (K)

MINIMUM WIND SPEED:       0.5 m/s

ANEMOMETER HEIGHT:     10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE:    Average Moisture
DOMINANT SEASON:          Winter

ALBEDO:                  0.35
BOWEN RATIO:             1.50
ROUGHNESS LENGTH:       1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED


       METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT
       -------------------------------------------------------------

 YR MO DY JDY HR
 -- -- -- --- --
 10 01 10  10 01

    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 -1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50

    HT  REF TA     HT
- - - - - - - - - - -
  10.0   310.0    2.0



--------------------------------------------------------------------------------
************************ AERSCREEN AUTOMATED DISTANCES *********************
                  OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
--------------------------------------------------------------------------------


                      MAXIMUM                             MAXIMUM
           DIST     1-HR CONC                  DIST     1-HR CONC
            (m)      (ug/m3)                    (m)      (ug/m3)
         ---------------------              ---------------------
           1.00    0.5660                   2525.00    0.2485E-01
```

25.00	0.5913	2550.00	0.2452E-01
50.00	0.6179	2575.00	0.2421E-01
75.00	0.6429	2600.00	0.2390E-01
100.00	0.6665	2625.00	0.2360E-01
125.00	0.6888	2650.00	0.2330E-01
150.00	0.7102	2675.00	0.2302E-01
175.00	0.7310	2700.00	0.2273E-01
200.00	0.7498	2725.00	0.2246E-01
225.00	0.6484	2750.00	0.2219E-01
250.00	0.4956	2775.00	0.2192E-01
275.00	0.4398	2800.00	0.2166E-01
300.00	0.3806	2825.00	0.2140E-01
325.00	0.3373	2850.00	0.2115E-01
350.01	0.3039	2875.00	0.2091E-01
375.01	0.2769	2900.00	0.2067E-01
400.00	0.2547	2925.00	0.2043E-01
425.00	0.2359	2950.00	0.2020E-01
450.00	0.2197	2975.00	0.1997E-01
475.00	0.2055	3000.00	0.1975E-01
500.00	0.1930	3025.00	0.1953E-01
525.00	0.1819	3050.00	0.1931E-01
549.99	0.1720	3075.00	0.1910E-01
575.00	0.1629	3100.00	0.1889E-01
600.00	0.1547	3125.00	0.1869E-01
625.00	0.1472	3150.00	0.1849E-01
650.00	0.1404	3174.99	0.1830E-01
675.00	0.1342	3199.99	0.1811E-01
700.00	0.1283	3225.00	0.1792E-01
725.00	0.1230	3250.00	0.1774E-01
750.00	0.1180	3275.00	0.1756E-01
775.00	0.1133	3300.00	0.1738E-01
800.00	0.1090	3325.00	0.1720E-01
825.00	0.1050	3350.00	0.1703E-01
850.00	0.1012	3375.00	0.1686E-01
875.00	0.9756E-01	3400.00	0.1669E-01
900.00	0.9421E-01	3425.01	0.1653E-01
924.99	0.9108E-01	3450.00	0.1637E-01
950.00	0.8811E-01	3475.00	0.1621E-01
975.00	0.8530E-01	3500.00	0.1605E-01
1000.00	0.8262E-01	3525.00	0.1590E-01
1025.00	0.8010E-01	3550.00	0.1575E-01
1050.00	0.7773E-01	3575.00	0.1560E-01
1075.00	0.7545E-01	3600.00	0.1545E-01
1100.00	0.7329E-01	3625.00	0.1531E-01
1125.00	0.7124E-01	3650.00	0.1517E-01
1150.00	0.6930E-01	3675.00	0.1503E-01
1175.00	0.6743E-01	3700.00	0.1489E-01
1200.00	0.6564E-01	3725.00	0.1476E-01
1225.00	0.6393E-01	3750.00	0.1463E-01
1250.00	0.6231E-01	3775.00	0.1450E-01

1275.00	0.6076E-01	3800.00	0.1437E-01
1300.00	0.5926E-01	3825.00	0.1424E-01
1325.00	0.5783E-01	3850.00	0.1412E-01
1350.00	0.5646E-01	3875.00	0.1400E-01
1375.00	0.5515E-01	3900.00	0.1388E-01
1400.00	0.5388E-01	3925.00	0.1376E-01
1425.00	0.5266E-01	3950.00	0.1364E-01
1450.00	0.5149E-01	3975.00	0.1352E-01
1475.00	0.5037E-01	4000.00	0.1341E-01
1500.00	0.4928E-01	4025.00	0.1330E-01
1525.00	0.4823E-01	4050.00	0.1319E-01
1550.00	0.4723E-01	4075.00	0.1308E-01
1575.00	0.4626E-01	4100.00	0.1297E-01
1600.00	0.4532E-01	4125.00	0.1287E-01
1625.00	0.4442E-01	4150.00	0.1277E-01
1650.00	0.4355E-01	4175.00	0.1266E-01
1675.00	0.4270E-01	4200.00	0.1256E-01
1700.00	0.4188E-01	4225.00	0.1246E-01
1725.00	0.4108E-01	4250.00	0.1236E-01
1750.00	0.4032E-01	4275.00	0.1226E-01
1775.00	0.3958E-01	4300.00	0.1217E-01
1800.00	0.3886E-01	4325.00	0.1207E-01
1825.00	0.3816E-01	4350.00	0.1198E-01
1850.00	0.3749E-01	4375.00	0.1189E-01
1875.00	0.3683E-01	4400.00	0.1180E-01
1900.00	0.3619E-01	4425.00	0.1171E-01
1925.00	0.3558E-01	4450.00	0.1162E-01
1950.00	0.3498E-01	4475.00	0.1153E-01
1975.00	0.3440E-01	4500.00	0.1144E-01
2000.00	0.3384E-01	4525.00	0.1136E-01
2025.00	0.3329E-01	4550.00	0.1127E-01
2050.00	0.3275E-01	4575.00	0.1119E-01
2075.00	0.3223E-01	4600.00	0.1111E-01
2100.00	0.3173E-01	4625.00	0.1103E-01
2125.00	0.3124E-01	4650.00	0.1095E-01
2150.00	0.3076E-01	4675.00	0.1087E-01
2175.00	0.3029E-01	4700.00	0.1079E-01
2200.00	0.2983E-01	4725.00	0.1071E-01
2225.00	0.2939E-01	4750.00	0.1063E-01
2250.00	0.2896E-01	4775.00	0.1056E-01
2275.00	0.2854E-01	4800.00	0.1049E-01
2300.00	0.2813E-01	4825.00	0.1041E-01
2325.00	0.2773E-01	4850.00	0.1034E-01
2350.00	0.2734E-01	4875.00	0.1027E-01
2375.00	0.2696E-01	4900.00	0.1020E-01
2400.00	0.2659E-01	4924.99	0.1013E-01
2425.00	0.2622E-01	4950.00	0.1006E-01
2450.00	0.2587E-01	4975.00	0.9992E-02
2475.00	0.2552E-01	5000.00	0.9925E-02
2500.00	0.2518E-01		

```
-----------------------------------------------------------------------------
**********************  AERSCREEN MAXIMUM IMPACT SUMMARY  ********************
-----------------------------------------------------------------------------

3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

                     MAXIMUM      SCALED      SCALED      SCALED      SCALED
                      1-HOUR      3-HOUR      8-HOUR     24-HOUR      ANNUAL
  CALCULATION          CONC        CONC        CONC        CONC        CONC
   PROCEDURE         (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)
---------------    ----------  ----------  ----------  ----------  ----------
FLAT TERRAIN       0.7569      0.7569      0.7569      0.7569         N/A

DISTANCE FROM SOURCE        210.00 meters



IMPACT AT THE
AMBIENT BOUNDARY   0.5660      0.5660      0.5660      0.5660         N/A

DISTANCE FROM SOURCE          1.00 meters
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 Concentration     Distance Elevation  Diag  Season/Month   Zo sector       Date
  H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS     HT
REF TA     HT
   0.56599E+00         1.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59132E+00        25.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61789E+00        50.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64288E+00        75.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.66647E+00       100.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68884E+00       125.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.71020E+00       150.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.73096E+00       175.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.74980E+00       200.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
*  0.75690E+00       210.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64835E+00       225.00      0.00  45.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49558E+00       250.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43982E+00       275.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38058E+00       300.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33734E+00       325.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30386E+00       350.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.27694E+00       375.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25471E+00       400.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23588E+00       425.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21966E+00       450.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20553E+00       475.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19304E+00       500.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18189E+00       525.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17195E+00       549.99      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16290E+00       575.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15469E+00       600.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14725E+00       625.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14043E+00       650.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13417E+00       675.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12834E+00       700.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12297E+00       725.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11799E+00       750.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11332E+00       775.00      0.00  35.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10898E+00       800.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10495E+00       825.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10115E+00       850.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.97563E-01       875.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.94210E-01       900.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.91076E-01       924.99      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.88108E-01       950.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.85302E-01       975.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82622E-01      1000.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.80104E-01      1025.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77729E-01      1050.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.75449E-01      1075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.73295E-01      1100.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.71244E-01      1125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69302E-01      1150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.67431E-01      1175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.65638E-01      1200.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.63932E-01      1225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62310E-01      1250.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.60760E-01      1275.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59262E-01      1300.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57827E-01      1325.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56462E-01      1350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55146E-01      1375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53876E-01      1400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52659E-01      1425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51492E-01      1450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50370E-01      1475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49284E-01      1500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48234E-01      1525.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47230E-01      1550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46258E-01      1575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45321E-01      1600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.44415E-01      1625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43545E-01      1650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42703E-01      1675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41878E-01      1700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41084E-01      1725.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40322E-01      1750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39582E-01      1775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38859E-01      1800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38164E-01      1825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37488E-01      1850.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36830E-01      1875.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36194E-01      1900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35579E-01      1925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34984E-01      1950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34401E-01      1975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33835E-01      2000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33285E-01      2025.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32752E-01      2050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32233E-01      2075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31728E-01      2100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31238E-01      2125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30759E-01      2150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30289E-01      2175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29831E-01      2200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29390E-01      2225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28960E-01      2250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28540E-01      2275.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28130E-01      2300.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27730E-01      2325.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27340E-01      2350.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26959E-01      2375.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26587E-01      2400.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26223E-01      2425.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.25867E-01      2450.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25518E-01      2475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25179E-01      2500.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24847E-01      2525.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24523E-01      2550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24207E-01      2575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23899E-01      2600.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23598E-01      2625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23304E-01      2650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23016E-01      2675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22735E-01      2700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22459E-01      2725.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22186E-01      2750.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21920E-01      2775.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21659E-01      2800.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21404E-01      2825.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21154E-01      2850.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.20908E-01      2875.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20668E-01      2900.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20431E-01      2925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20198E-01      2950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19970E-01      2975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19746E-01      3000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19526E-01      3025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19311E-01      3050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19100E-01      3075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18894E-01      3100.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18692E-01      3125.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18494E-01      3150.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18299E-01      3174.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18108E-01      3199.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17920E-01      3225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17736E-01      3250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17555E-01      3275.00      0.00  15.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17377E-01      3300.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17202E-01      3325.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17029E-01      3350.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16860E-01      3375.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16693E-01      3400.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16529E-01      3425.01      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16367E-01      3450.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16208E-01      3475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16052E-01      3500.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15899E-01      3525.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15748E-01      3550.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15600E-01      3575.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15454E-01      3600.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15311E-01      3625.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15170E-01      3650.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15031E-01      3675.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.14894E-01      3700.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14759E-01      3725.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14627E-01      3750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14497E-01      3775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14369E-01      3800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14243E-01      3825.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14119E-01      3850.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13996E-01      3875.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13876E-01      3900.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13757E-01      3925.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13640E-01      3950.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13525E-01      3975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13411E-01      4000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13300E-01      4025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13190E-01      4050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13082E-01      4075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12975E-01      4100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.12869E-01      4125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12766E-01      4150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12663E-01      4175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12561E-01      4200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12461E-01      4225.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12362E-01      4250.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12265E-01      4275.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12169E-01      4300.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12074E-01      4325.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11980E-01      4350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11888E-01      4375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11796E-01      4400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11706E-01      4425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11617E-01      4450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11529E-01      4475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11442E-01      4500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11356E-01      4525.00      0.00   0.0        Winter       0-360   10011001
```

```
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11272E-01      4550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11189E-01      4575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11107E-01      4600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11025E-01      4625.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10945E-01      4650.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10866E-01      4675.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10788E-01      4700.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10711E-01      4725.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10635E-01      4750.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10560E-01      4775.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10486E-01      4800.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10412E-01      4825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10340E-01      4850.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10269E-01      4875.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10198E-01      4900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10129E-01      4924.99      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
   0.10060E-01      4950.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.99920E-02      4975.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.99247E-02      5000.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
AERSCREEN 16216 / AERMOD 19191                                        08/18/20
                                                                      14:56:25

TITLE: Phase 4 Construction


-----------------------------------------------------------------------------
****************************  AREA PARAMETERS  ***************************
-----------------------------------------------------------------------------

SOURCE EMISSION RATE:         0.191E-02 g/s             0.151E-01 lb/hr

AREA EMISSION RATE:           0.193E-07 g/(s-m2)        0.153E-06 lb/(hr-m2)
AREA HEIGHT:                       3.00 meters               9.84 feet
AREA SOURCE LONG SIDE:           326.00 meters            1069.55 feet
AREA SOURCE SHORT SIDE:          303.00 meters             994.09 feet
INITIAL VERTICAL DIMENSION:        1.50 meters               4.92 feet
RURAL OR URBAN:                   URBAN
POPULATION:                     3990000

INITIAL PROBE DISTANCE =          5000. meters             16404. feet



-----------------------------------------------------------------------------
***********************  BUILDING DOWNWASH PARAMETERS  **********************
-----------------------------------------------------------------------------

               BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES



-----------------------------------------------------------------------------
**************************  FLOW SECTOR ANALYSIS  **************************
                 25 meter receptor spacing: 1. meters - 5000. meters
-----------------------------------------------------------------------------


   MAXIMUM  IMPACT  RECEPTOR

   Zo        SURFACE   1-HR CONC  RADIAL  DIST   TEMPORAL
   SECTOR    ROUGHNESS  (ug/m3)    (deg)   (m)    PERIOD
  ---------------------------------------------------
      1*       1.000    0.7965      40   200.0     WIN
* = worst case diagonal



-----------------------------------------------------------------------------
```

```
**********************  MAKEMET METEOROLOGY PARAMETERS  *********************
--------------------------------------------------------------------------------

MIN/MAX TEMPERATURE:    250.0 / 310.0 (K)

MINIMUM WIND SPEED:       0.5 m/s

ANEMOMETER HEIGHT:     10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE:    Average Moisture
DOMINANT SEASON:          Winter

ALBEDO:                  0.35
BOWEN RATIO:             1.50
ROUGHNESS LENGTH:       1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED


       METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT
       -------------------------------------------------------------

 YR MO DY JDY HR
 -- -- -- --- --
 10 01 10  10 01

    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 -1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50

    HT  REF TA     HT
- - - - - - - - - - -
  10.0   310.0    2.0



--------------------------------------------------------------------------------
************************ AERSCREEN AUTOMATED DISTANCES *********************
                  OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
--------------------------------------------------------------------------------


                      MAXIMUM                              MAXIMUM
           DIST     1-HR CONC                   DIST     1-HR CONC
            (m)      (ug/m3)                     (m)      (ug/m3)
         ---------------------               ---------------------
           1.00    0.6012                   2525.00    0.2639E-01
```

25.00	0.6281	2550.00	0.2605E-01
50.00	0.6563	2575.00	0.2571E-01
75.00	0.6829	2600.00	0.2539E-01
100.00	0.7079	2625.00	0.2507E-01
125.00	0.7317	2650.00	0.2475E-01
150.00	0.7544	2675.00	0.2445E-01
175.00	0.7764	2700.00	0.2415E-01
200.00	0.7965	2725.00	0.2386E-01
225.00	0.6887	2750.00	0.2357E-01
250.00	0.5264	2775.00	0.2328E-01
275.00	0.4672	2800.00	0.2301E-01
300.00	0.4043	2825.00	0.2274E-01
325.00	0.3583	2850.00	0.2247E-01
350.01	0.3228	2875.00	0.2221E-01
375.01	0.2942	2900.00	0.2195E-01
400.00	0.2706	2925.00	0.2170E-01
425.00	0.2506	2950.00	0.2145E-01
450.00	0.2333	2975.00	0.2121E-01
475.00	0.2183	3000.00	0.2097E-01
500.00	0.2050	3025.00	0.2074E-01
525.00	0.1932	3050.00	0.2051E-01
549.99	0.1827	3075.00	0.2029E-01
575.00	0.1730	3100.00	0.2007E-01
600.00	0.1643	3125.00	0.1986E-01
625.00	0.1564	3150.00	0.1964E-01
650.00	0.1492	3174.99	0.1944E-01
675.00	0.1425	3199.99	0.1923E-01
700.00	0.1363	3225.00	0.1904E-01
725.00	0.1306	3250.00	0.1884E-01
750.00	0.1253	3275.00	0.1865E-01
775.00	0.1204	3300.00	0.1846E-01
800.00	0.1158	3325.00	0.1827E-01
825.00	0.1115	3350.00	0.1809E-01
850.00	0.1075	3375.00	0.1791E-01
875.00	0.1036	3400.00	0.1773E-01
900.00	0.1001	3425.01	0.1756E-01
924.99	0.9674E-01	3450.00	0.1739E-01
950.00	0.9359E-01	3475.00	0.1722E-01
975.00	0.9061E-01	3500.00	0.1705E-01
1000.00	0.8776E-01	3525.00	0.1689E-01
1025.00	0.8509E-01	3550.00	0.1673E-01
1050.00	0.8257E-01	3575.00	0.1657E-01
1075.00	0.8014E-01	3600.00	0.1642E-01
1100.00	0.7786E-01	3625.00	0.1626E-01
1125.00	0.7568E-01	3650.00	0.1611E-01
1150.00	0.7361E-01	3675.00	0.1597E-01
1175.00	0.7163E-01	3700.00	0.1582E-01
1200.00	0.6972E-01	3725.00	0.1568E-01
1225.00	0.6791E-01	3750.00	0.1554E-01
1250.00	0.6619E-01	3775.00	0.1540E-01

1275.00	0.6454E-01	3800.00	0.1526E-01
1300.00	0.6295E-01	3825.00	0.1513E-01
1325.00	0.6143E-01	3850.00	0.1500E-01
1350.00	0.5998E-01	3875.00	0.1487E-01
1375.00	0.5858E-01	3900.00	0.1474E-01
1400.00	0.5723E-01	3925.00	0.1461E-01
1425.00	0.5594E-01	3950.00	0.1449E-01
1450.00	0.5470E-01	3975.00	0.1437E-01
1475.00	0.5350E-01	4000.00	0.1425E-01
1500.00	0.5235E-01	4025.00	0.1413E-01
1525.00	0.5124E-01	4050.00	0.1401E-01
1550.00	0.5017E-01	4075.00	0.1390E-01
1575.00	0.4914E-01	4100.00	0.1378E-01
1600.00	0.4814E-01	4125.00	0.1367E-01
1625.00	0.4718E-01	4150.00	0.1356E-01
1650.00	0.4625E-01	4175.00	0.1345E-01
1675.00	0.4536E-01	4200.00	0.1334E-01
1700.00	0.4448E-01	4225.00	0.1324E-01
1725.00	0.4364E-01	4250.00	0.1313E-01
1750.00	0.4283E-01	4275.00	0.1303E-01
1775.00	0.4205E-01	4300.00	0.1293E-01
1800.00	0.4128E-01	4325.00	0.1283E-01
1825.00	0.4054E-01	4350.00	0.1273E-01
1850.00	0.3982E-01	4375.00	0.1263E-01
1875.00	0.3912E-01	4400.00	0.1253E-01
1900.00	0.3845E-01	4425.00	0.1243E-01
1925.00	0.3779E-01	4450.00	0.1234E-01
1950.00	0.3716E-01	4475.00	0.1225E-01
1975.00	0.3654E-01	4500.00	0.1215E-01
2000.00	0.3594E-01	4525.00	0.1206E-01
2025.00	0.3536E-01	4550.00	0.1197E-01
2050.00	0.3479E-01	4575.00	0.1188E-01
2075.00	0.3424E-01	4600.00	0.1180E-01
2100.00	0.3370E-01	4625.00	0.1171E-01
2125.00	0.3318E-01	4650.00	0.1163E-01
2150.00	0.3267E-01	4675.00	0.1154E-01
2175.00	0.3217E-01	4700.00	0.1146E-01
2200.00	0.3169E-01	4725.00	0.1138E-01
2225.00	0.3122E-01	4750.00	0.1130E-01
2250.00	0.3076E-01	4775.00	0.1122E-01
2275.00	0.3032E-01	4800.00	0.1114E-01
2300.00	0.2988E-01	4825.00	0.1106E-01
2325.00	0.2946E-01	4850.00	0.1098E-01
2350.00	0.2904E-01	4875.00	0.1091E-01
2375.00	0.2864E-01	4900.00	0.1083E-01
2400.00	0.2824E-01	4924.99	0.1076E-01
2425.00	0.2785E-01	4950.00	0.1069E-01
2450.00	0.2748E-01	4975.00	0.1061E-01
2475.00	0.2711E-01	5000.00	0.1054E-01
2500.00	0.2675E-01		

```
-----------------------------------------------------------------------------
**********************  AERSCREEN MAXIMUM IMPACT SUMMARY  ********************
-----------------------------------------------------------------------------

3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

                     MAXIMUM      SCALED      SCALED      SCALED      SCALED
                      1-HOUR      3-HOUR      8-HOUR     24-HOUR      ANNUAL
  CALCULATION          CONC        CONC        CONC        CONC        CONC
   PROCEDURE         (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)
---------------    ----------  ----------  ----------  ----------  ----------
FLAT TERRAIN       0.8040      0.8040      0.8040      0.8040         N/A

DISTANCE FROM SOURCE        210.00 meters



IMPACT AT THE
AMBIENT BOUNDARY   0.6012      0.6012      0.6012      0.6012         N/A

DISTANCE FROM SOURCE          1.00 meters
```

```
 Concentration     Distance Elevation  Diag  Season/Month   Zo sector       Date
  H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS     HT
REF TA     HT
   0.60121E+00         1.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62811E+00        25.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.65634E+00        50.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68288E+00        75.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.70794E+00       100.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.73170E+00       125.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.75439E+00       150.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77644E+00       175.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.79645E+00       200.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
*  0.80400E+00       210.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68870E+00       225.00      0.00  45.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52642E+00       250.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46718E+00       275.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40426E+00       300.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35833E+00       325.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32276E+00       350.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
```

```
 310.0    2.0
   0.29417E+00       375.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27056E+00       400.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25056E+00       425.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23332E+00       450.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21832E+00       475.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20505E+00       500.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19321E+00       525.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18265E+00       549.99      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17304E+00       575.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16431E+00       600.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15641E+00       625.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14917E+00       650.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14252E+00       675.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13632E+00       700.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13062E+00       725.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12533E+00       750.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12037E+00       775.00      0.00  35.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11576E+00       800.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11148E+00       825.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10745E+00       850.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10363E+00       875.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10007E+00       900.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.96743E-01       924.99      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.93590E-01       950.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.90610E-01       975.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.87763E-01      1000.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.85088E-01      1025.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82566E-01      1050.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.80144E-01      1075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77855E-01      1100.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.75677E-01      1125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.73615E-01      1150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.71626E-01      1175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.69723E-01      1200.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.67910E-01      1225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.66187E-01      1250.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64541E-01      1275.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62949E-01      1300.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61426E-01      1325.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59975E-01      1350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58577E-01      1375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57229E-01      1400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55936E-01      1425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54696E-01      1450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53505E-01      1475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52350E-01      1500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51236E-01      1525.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50169E-01      1550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49137E-01      1575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48141E-01      1600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.47179E-01      1625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46255E-01      1650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45360E-01      1675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44484E-01      1700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43641E-01      1725.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42831E-01      1750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42046E-01      1775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41277E-01      1800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40539E-01      1825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39821E-01      1850.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39121E-01      1875.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38446E-01      1900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37793E-01      1925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37161E-01      1950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36542E-01      1975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35941E-01      2000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35357E-01      2025.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34789E-01      2050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34238E-01      2075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33703E-01      2100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33182E-01      2125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32673E-01      2150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32173E-01      2175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31688E-01      2200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31219E-01      2225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30763E-01      2250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30316E-01      2275.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29880E-01      2300.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29455E-01      2325.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29041E-01      2350.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28637E-01      2375.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28241E-01      2400.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27854E-01      2425.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.27477E-01      2450.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27106E-01      2475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26745E-01      2500.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26394E-01      2525.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26049E-01      2550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25713E-01      2575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25386E-01      2600.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25067E-01      2625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24754E-01      2650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24448E-01      2675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24149E-01      2700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23856E-01      2725.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23567E-01      2750.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23284E-01      2775.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23007E-01      2800.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22736E-01      2825.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22470E-01      2850.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
```

```
 310.0    2.0
   0.22210E-01      2875.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21954E-01      2900.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21703E-01      2925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21455E-01      2950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21212E-01      2975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20974E-01      3000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20741E-01      3025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20512E-01      3050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20289E-01      3075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20070E-01      3100.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19855E-01      3125.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19645E-01      3150.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19438E-01      3174.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19235E-01      3199.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19035E-01      3225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18840E-01      3250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18647E-01      3275.00      0.00  15.0        Winter       0-360   10011001
```

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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18458E-01      3300.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18272E-01      3325.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18089E-01      3350.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17909E-01      3375.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17732E-01      3400.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17557E-01      3425.01      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17386E-01      3450.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17217E-01      3475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17051E-01      3500.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16888E-01      3525.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16728E-01      3550.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16571E-01      3575.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16416E-01      3600.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16264E-01      3625.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16114E-01      3650.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15966E-01      3675.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
   0.15821E-01      3700.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15678E-01      3725.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15537E-01      3750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15399E-01      3775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15263E-01      3800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15129E-01      3825.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14997E-01      3850.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14867E-01      3875.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14739E-01      3900.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14613E-01      3925.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14488E-01      3950.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14366E-01      3975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14246E-01      4000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14127E-01      4025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14011E-01      4050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13896E-01      4075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13782E-01      4100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
```

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 310.0    2.0
   0.13670E-01      4125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13560E-01      4150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13450E-01      4175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13343E-01      4200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13236E-01      4225.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13132E-01      4250.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13028E-01      4275.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12926E-01      4300.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12826E-01      4325.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12726E-01      4350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12627E-01      4375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12530E-01      4400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12434E-01      4425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12339E-01      4450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12246E-01      4475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12154E-01      4500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12063E-01      4525.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11973E-01      4550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11885E-01      4575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11797E-01      4600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11711E-01      4625.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11626E-01      4650.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11542E-01      4675.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11459E-01      4700.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11377E-01      4725.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11297E-01      4750.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11217E-01      4775.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11138E-01      4800.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11060E-01      4825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10983E-01      4850.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10908E-01      4875.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10833E-01      4900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10759E-01      4924.99      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.10686E-01      4950.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10614E-01      4975.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10542E-01      5000.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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AERSCREEN 16216 / AERMOD 19191                                        08/18/20
                                                                      14:59:46

TITLE: Phase 5 Construction


-----------------------------------------------------------------------------
****************************  AREA PARAMETERS  ***************************
-----------------------------------------------------------------------------

SOURCE EMISSION RATE:         0.167E-02 g/s             0.133E-01 lb/hr

AREA EMISSION RATE:           0.169E-07 g/(s-m2)        0.134E-06 lb/(hr-m2)
AREA HEIGHT:                       3.00 meters               9.84 feet
AREA SOURCE LONG SIDE:           326.00 meters            1069.55 feet
AREA SOURCE SHORT SIDE:          303.00 meters             994.09 feet
INITIAL VERTICAL DIMENSION:        1.50 meters               4.92 feet
RURAL OR URBAN:                   URBAN
POPULATION:                     3990000

INITIAL PROBE DISTANCE =          5000. meters             16404. feet



-----------------------------------------------------------------------------
***********************  BUILDING DOWNWASH PARAMETERS  **********************
-----------------------------------------------------------------------------

               BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES



-----------------------------------------------------------------------------
**************************  FLOW SECTOR ANALYSIS  **************************
                 25 meter receptor spacing: 1. meters - 5000. meters
-----------------------------------------------------------------------------


   MAXIMUM  IMPACT  RECEPTOR

   Zo        SURFACE   1-HR CONC  RADIAL  DIST   TEMPORAL
   SECTOR    ROUGHNESS  (ug/m3)    (deg)   (m)    PERIOD
  ---------------------------------------------------
      1*       1.000    0.6982      40   200.0     WIN
* = worst case diagonal



-----------------------------------------------------------------------------
```

```
**********************  MAKEMET METEOROLOGY PARAMETERS  ********************
-------------------------------------------------------------------------------

MIN/MAX TEMPERATURE:    250.0 / 310.0 (K)

MINIMUM WIND SPEED:       0.5 m/s

ANEMOMETER HEIGHT:     10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE:    Average Moisture
DOMINANT SEASON:          Winter

ALBEDO:                  0.35
BOWEN RATIO:             1.50
ROUGHNESS LENGTH:       1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED


       METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT
       -------------------------------------------------------------

 YR MO DY JDY HR
 -- -- -- --- --
 10 01 10  10 01

    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 -1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50

    HT  REF TA     HT
- - - - - - - - - - -
  10.0   310.0    2.0



-------------------------------------------------------------------------------
************************ AERSCREEN AUTOMATED DISTANCES *********************
                  OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
-------------------------------------------------------------------------------


                      MAXIMUM                            MAXIMUM
           DIST     1-HR CONC                  DIST     1-HR CONC
            (m)      (ug/m3)                    (m)      (ug/m3)
         ---------------------              ---------------------
           1.00    0.5270                   2525.00    0.2314E-01
```

25.00	0.5506	2550.00	0.2284E-01
50.00	0.5754	2575.00	0.2254E-01
75.00	0.5986	2600.00	0.2225E-01
100.00	0.6206	2625.00	0.2197E-01
125.00	0.6414	2650.00	0.2170E-01
150.00	0.6613	2675.00	0.2143E-01
175.00	0.6806	2700.00	0.2117E-01
200.00	0.6982	2725.00	0.2091E-01
225.00	0.6037	2750.00	0.2066E-01
250.00	0.4615	2775.00	0.2041E-01
275.00	0.4095	2800.00	0.2017E-01
300.00	0.3544	2825.00	0.1993E-01
325.00	0.3141	2850.00	0.1970E-01
350.01	0.2829	2875.00	0.1947E-01
375.01	0.2579	2900.00	0.1925E-01
400.00	0.2372	2925.00	0.1902E-01
425.00	0.2196	2950.00	0.1881E-01
450.00	0.2045	2975.00	0.1860E-01
475.00	0.1914	3000.00	0.1839E-01
500.00	0.1797	3025.00	0.1818E-01
525.00	0.1694	3050.00	0.1798E-01
549.99	0.1601	3075.00	0.1779E-01
575.00	0.1517	3100.00	0.1759E-01
600.00	0.1440	3125.00	0.1741E-01
625.00	0.1371	3150.00	0.1722E-01
650.00	0.1308	3174.99	0.1704E-01
675.00	0.1249	3199.99	0.1686E-01
700.00	0.1195	3225.00	0.1669E-01
725.00	0.1145	3250.00	0.1652E-01
750.00	0.1099	3275.00	0.1635E-01
775.00	0.1055	3300.00	0.1618E-01
800.00	0.1015	3325.00	0.1602E-01
825.00	0.9773E-01	3350.00	0.1586E-01
850.00	0.9419E-01	3375.00	0.1570E-01
875.00	0.9085E-01	3400.00	0.1554E-01
900.00	0.8773E-01	3425.01	0.1539E-01
924.99	0.8481E-01	3450.00	0.1524E-01
950.00	0.8204E-01	3475.00	0.1509E-01
975.00	0.7943E-01	3500.00	0.1495E-01
1000.00	0.7693E-01	3525.00	0.1480E-01
1025.00	0.7459E-01	3550.00	0.1466E-01
1050.00	0.7238E-01	3575.00	0.1453E-01
1075.00	0.7026E-01	3600.00	0.1439E-01
1100.00	0.6825E-01	3625.00	0.1426E-01
1125.00	0.6634E-01	3650.00	0.1413E-01
1150.00	0.6453E-01	3675.00	0.1400E-01
1175.00	0.6279E-01	3700.00	0.1387E-01
1200.00	0.6112E-01	3725.00	0.1374E-01
1225.00	0.5953E-01	3750.00	0.1362E-01
1250.00	0.5802E-01	3775.00	0.1350E-01

1275.00	0.5658E-01	3800.00	0.1338E-01
1300.00	0.5518E-01	3825.00	0.1326E-01
1325.00	0.5385E-01	3850.00	0.1315E-01
1350.00	0.5258E-01	3875.00	0.1303E-01
1375.00	0.5135E-01	3900.00	0.1292E-01
1400.00	0.5017E-01	3925.00	0.1281E-01
1425.00	0.4903E-01	3950.00	0.1270E-01
1450.00	0.4795E-01	3975.00	0.1259E-01
1475.00	0.4690E-01	4000.00	0.1249E-01
1500.00	0.4589E-01	4025.00	0.1238E-01
1525.00	0.4491E-01	4050.00	0.1228E-01
1550.00	0.4398E-01	4075.00	0.1218E-01
1575.00	0.4307E-01	4100.00	0.1208E-01
1600.00	0.4220E-01	4125.00	0.1198E-01
1625.00	0.4136E-01	4150.00	0.1189E-01
1650.00	0.4055E-01	4175.00	0.1179E-01
1675.00	0.3976E-01	4200.00	0.1170E-01
1700.00	0.3900E-01	4225.00	0.1160E-01
1725.00	0.3826E-01	4250.00	0.1151E-01
1750.00	0.3755E-01	4275.00	0.1142E-01
1775.00	0.3686E-01	4300.00	0.1133E-01
1800.00	0.3618E-01	4325.00	0.1124E-01
1825.00	0.3554E-01	4350.00	0.1116E-01
1850.00	0.3491E-01	4375.00	0.1107E-01
1875.00	0.3429E-01	4400.00	0.1098E-01
1900.00	0.3370E-01	4425.00	0.1090E-01
1925.00	0.3313E-01	4450.00	0.1082E-01
1950.00	0.3258E-01	4475.00	0.1074E-01
1975.00	0.3203E-01	4500.00	0.1065E-01
2000.00	0.3151E-01	4525.00	0.1057E-01
2025.00	0.3099E-01	4550.00	0.1050E-01
2050.00	0.3050E-01	4575.00	0.1042E-01
2075.00	0.3001E-01	4600.00	0.1034E-01
2100.00	0.2954E-01	4625.00	0.1027E-01
2125.00	0.2909E-01	4650.00	0.1019E-01
2150.00	0.2864E-01	4675.00	0.1012E-01
2175.00	0.2820E-01	4700.00	0.1005E-01
2200.00	0.2778E-01	4725.00	0.9973E-02
2225.00	0.2737E-01	4750.00	0.9903E-02
2250.00	0.2697E-01	4775.00	0.9833E-02
2275.00	0.2658E-01	4800.00	0.9764E-02
2300.00	0.2619E-01	4825.00	0.9696E-02
2325.00	0.2582E-01	4850.00	0.9628E-02
2350.00	0.2546E-01	4875.00	0.9562E-02
2375.00	0.2510E-01	4900.00	0.9496E-02
2400.00	0.2476E-01	4924.99	0.9431E-02
2425.00	0.2442E-01	4950.00	0.9367E-02
2450.00	0.2409E-01	4975.00	0.9304E-02
2475.00	0.2376E-01	5000.00	0.9242E-02
2500.00	0.2345E-01		

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**********************  AERSCREEN MAXIMUM IMPACT SUMMARY  ********************
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3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

                     MAXIMUM      SCALED      SCALED      SCALED      SCALED
                      1-HOUR      3-HOUR      8-HOUR     24-HOUR      ANNUAL
  CALCULATION          CONC        CONC        CONC        CONC        CONC
   PROCEDURE         (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)
---------------    ----------  ----------  ----------  ----------  ----------
FLAT TERRAIN       0.7048      0.7048      0.7048      0.7048         N/A

DISTANCE FROM SOURCE        210.00 meters



IMPACT AT THE
AMBIENT BOUNDARY   0.5270      0.5270      0.5270      0.5270         N/A

DISTANCE FROM SOURCE          1.00 meters
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 Concentration     Distance Elevation  Diag  Season/Month   Zo sector       Date
  H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS     HT
REF TA     HT
   0.52704E+00         1.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55061E+00        25.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57536E+00        50.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59863E+00        75.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62059E+00       100.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64143E+00       125.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.66132E+00       150.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68064E+00       175.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69819E+00       200.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
*  0.70480E+00       210.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.60372E+00       225.00      0.00  45.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46147E+00       250.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40954E+00       275.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35438E+00       300.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31412E+00       325.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28294E+00       350.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.25788E+00       375.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23718E+00       400.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21964E+00       425.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20454E+00       450.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19138E+00       475.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17975E+00       500.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16937E+00       525.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16012E+00       549.99      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15169E+00       575.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14404E+00       600.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13711E+00       625.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13076E+00       650.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12494E+00       675.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11950E+00       700.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11450E+00       725.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10987E+00       750.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10552E+00       775.00      0.00  35.0        Winter       0-360   10011001
```

```
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10148E+00       800.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.97730E-01       825.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.94192E-01       850.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.90848E-01       875.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.87725E-01       900.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.84807E-01       924.99      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82043E-01       950.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.79430E-01       975.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.76935E-01      1000.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.74590E-01      1025.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.72379E-01      1050.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.70256E-01      1075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68250E-01      1100.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.66340E-01      1125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64532E-01      1150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62789E-01      1175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
   0.61120E-01      1200.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59532E-01      1225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58021E-01      1250.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56578E-01      1275.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55182E-01      1300.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53847E-01      1325.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52575E-01      1350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51350E-01      1375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50168E-01      1400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49035E-01      1425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47947E-01      1450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46903E-01      1475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45891E-01      1500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44914E-01      1525.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43979E-01      1550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43074E-01      1575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42202E-01      1600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.41358E-01      1625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40548E-01      1650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39764E-01      1675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38996E-01      1700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38256E-01      1725.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37546E-01      1750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36858E-01      1775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36185E-01      1800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35537E-01      1825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34908E-01      1850.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34295E-01      1875.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33703E-01      1900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33130E-01      1925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32576E-01      1950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32033E-01      1975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31506E-01      2000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30994E-01      2025.00      0.00   0.0        Winter       0-360   10011001
```

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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30497E-01      2050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30014E-01      2075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29545E-01      2100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29088E-01      2125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28641E-01      2150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28204E-01      2175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27778E-01      2200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27367E-01      2225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26967E-01      2250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26576E-01      2275.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26193E-01      2300.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25821E-01      2325.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25458E-01      2350.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25103E-01      2375.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24757E-01      2400.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24418E-01      2425.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.24086E-01      2450.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23762E-01      2475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23446E-01      2500.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23137E-01      2525.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22835E-01      2550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22541E-01      2575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22254E-01      2600.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21974E-01      2625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21700E-01      2650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21432E-01      2675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21170E-01      2700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20913E-01      2725.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20659E-01      2750.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20411E-01      2775.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20168E-01      2800.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19930E-01      2825.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19697E-01      2850.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.19469E-01      2875.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19246E-01      2900.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19025E-01      2925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18808E-01      2950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18595E-01      2975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18386E-01      3000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18182E-01      3025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17981E-01      3050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17785E-01      3075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17593E-01      3100.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17405E-01      3125.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17221E-01      3150.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17040E-01      3174.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16862E-01      3199.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16687E-01      3225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16515E-01      3250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16347E-01      3275.00      0.00  15.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16181E-01      3300.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16018E-01      3325.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15857E-01      3350.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15700E-01      3375.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15544E-01      3400.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15391E-01      3425.01      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15241E-01      3450.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15092E-01      3475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14947E-01      3500.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14805E-01      3525.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14664E-01      3550.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14526E-01      3575.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14391E-01      3600.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14257E-01      3625.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14126E-01      3650.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13996E-01      3675.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.13869E-01      3700.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13743E-01      3725.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13620E-01      3750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13499E-01      3775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13380E-01      3800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13263E-01      3825.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13147E-01      3850.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13033E-01      3875.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12920E-01      3900.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12810E-01      3925.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12701E-01      3950.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12594E-01      3975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12488E-01      4000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12384E-01      4025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12282E-01      4050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12181E-01      4075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12082E-01      4100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.11984E-01      4125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11887E-01      4150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11791E-01      4175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11696E-01      4200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11603E-01      4225.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11511E-01      4250.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11421E-01      4275.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11331E-01      4300.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11243E-01      4325.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11156E-01      4350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11069E-01      4375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10984E-01      4400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10900E-01      4425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10817E-01      4450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10735E-01      4475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10654E-01      4500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10575E-01      4525.00      0.00   0.0        Winter       0-360   10011001
```

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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10496E-01      4550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10418E-01      4575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10342E-01      4600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10266E-01      4625.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10192E-01      4650.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10118E-01      4675.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10045E-01      4700.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.99734E-02      4725.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.99029E-02      4750.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.98329E-02      4775.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.97638E-02      4800.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.96956E-02      4825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.96283E-02      4850.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.95618E-02      4875.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.94962E-02      4900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.94314E-02      4924.99      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
   0.93674E-02      4950.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.93042E-02      4975.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.92415E-02      5000.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
AERSCREEN 16216 / AERMOD 19191                                        08/18/20
                                                                      15:03:58

TITLE: Phase 6 Construction


-----------------------------------------------------------------------------
****************************  AREA PARAMETERS  ***************************
-----------------------------------------------------------------------------

SOURCE EMISSION RATE:         0.487E-03 g/s             0.387E-02 lb/hr

AREA EMISSION RATE:           0.493E-08 g/(s-m2)        0.392E-07 lb/(hr-m2)
AREA HEIGHT:                       3.00 meters               9.84 feet
AREA SOURCE LONG SIDE:           326.00 meters            1069.55 feet
AREA SOURCE SHORT SIDE:          303.00 meters             994.09 feet
INITIAL VERTICAL DIMENSION:        1.50 meters               4.92 feet
RURAL OR URBAN:                   URBAN
POPULATION:                     3990000

INITIAL PROBE DISTANCE =          5000. meters             16404. feet



-----------------------------------------------------------------------------
***********************  BUILDING DOWNWASH PARAMETERS  **********************
-----------------------------------------------------------------------------

               BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES



-----------------------------------------------------------------------------
**************************  FLOW SECTOR ANALYSIS  **************************
                 25 meter receptor spacing: 1. meters - 5000. meters
-----------------------------------------------------------------------------


   MAXIMUM  IMPACT  RECEPTOR

   Zo        SURFACE   1-HR CONC  RADIAL  DIST   TEMPORAL
   SECTOR    ROUGHNESS  (ug/m3)    (deg)   (m)    PERIOD
  ---------------------------------------------------
      1*       1.000    0.2037      40   200.0     WIN
* = worst case diagonal



-----------------------------------------------------------------------------
```

```
**********************  MAKEMET METEOROLOGY PARAMETERS  ********************
--------------------------------------------------------------------------------

MIN/MAX TEMPERATURE:    250.0 / 310.0 (K)

MINIMUM WIND SPEED:       0.5 m/s

ANEMOMETER HEIGHT:     10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE:    Average Moisture
DOMINANT SEASON:          Winter

ALBEDO:                  0.35
BOWEN RATIO:             1.50
ROUGHNESS LENGTH:       1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED


       METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT
       -------------------------------------------------------------

 YR MO DY JDY HR
 -- -- -- --- --
 10 01 10  10 01

    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 -1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50

    HT  REF TA     HT
- - - - - - - - - - -
  10.0   310.0    2.0



--------------------------------------------------------------------------------
************************ AERSCREEN AUTOMATED DISTANCES *********************
                  OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
--------------------------------------------------------------------------------


                      MAXIMUM                             MAXIMUM
           DIST     1-HR CONC                  DIST     1-HR CONC
            (m)      (ug/m3)                    (m)      (ug/m3)
         ---------------------              ---------------------
           1.00    0.1537                   2525.00    0.6750E-02
```

25.00	0.1606	2550.00	0.6662E-02
50.00	0.1678	2575.00	0.6576E-02
75.00	0.1746	2600.00	0.6492E-02
100.00	0.1810	2625.00	0.6410E-02
125.00	0.1871	2650.00	0.6330E-02
150.00	0.1929	2675.00	0.6252E-02
175.00	0.1986	2700.00	0.6176E-02
200.00	0.2037	2725.00	0.6101E-02
225.00	0.1761	2750.00	0.6027E-02
250.00	0.1346	2775.00	0.5954E-02
275.00	0.1195	2800.00	0.5883E-02
300.00	0.1034	2825.00	0.5814E-02
325.00	0.9164E-01	2850.00	0.5746E-02
350.01	0.8254E-01	2875.00	0.5680E-02
375.01	0.7523E-01	2900.00	0.5614E-02
400.00	0.6919E-01	2925.00	0.5550E-02
425.00	0.6407E-01	2950.00	0.5487E-02
450.00	0.5967E-01	2975.00	0.5425E-02
475.00	0.5583E-01	3000.00	0.5364E-02
500.00	0.5244E-01	3025.00	0.5304E-02
525.00	0.4941E-01	3050.00	0.5246E-02
549.99	0.4671E-01	3075.00	0.5188E-02
575.00	0.4425E-01	3100.00	0.5132E-02
600.00	0.4202E-01	3125.00	0.5078E-02
625.00	0.4000E-01	3150.00	0.5024E-02
650.00	0.3815E-01	3174.99	0.4971E-02
675.00	0.3645E-01	3199.99	0.4919E-02
700.00	0.3486E-01	3225.00	0.4868E-02
725.00	0.3340E-01	3250.00	0.4818E-02
750.00	0.3205E-01	3275.00	0.4769E-02
775.00	0.3078E-01	3300.00	0.4720E-02
800.00	0.2960E-01	3325.00	0.4673E-02
825.00	0.2851E-01	3350.00	0.4626E-02
850.00	0.2748E-01	3375.00	0.4580E-02
875.00	0.2650E-01	3400.00	0.4535E-02
900.00	0.2559E-01	3425.01	0.4490E-02
924.99	0.2474E-01	3450.00	0.4446E-02
950.00	0.2393E-01	3475.00	0.4403E-02
975.00	0.2317E-01	3500.00	0.4360E-02
1000.00	0.2244E-01	3525.00	0.4319E-02
1025.00	0.2176E-01	3550.00	0.4278E-02
1050.00	0.2111E-01	3575.00	0.4238E-02
1075.00	0.2050E-01	3600.00	0.4198E-02
1100.00	0.1991E-01	3625.00	0.4159E-02
1125.00	0.1935E-01	3650.00	0.4121E-02
1150.00	0.1883E-01	3675.00	0.4083E-02
1175.00	0.1832E-01	3700.00	0.4046E-02
1200.00	0.1783E-01	3725.00	0.4009E-02
1225.00	0.1737E-01	3750.00	0.3973E-02
1250.00	0.1693E-01	3775.00	0.3938E-02

1275.00	0.1650E-01	3800.00	0.3903E-02
1300.00	0.1610E-01	3825.00	0.3869E-02
1325.00	0.1571E-01	3850.00	0.3835E-02
1350.00	0.1534E-01	3875.00	0.3802E-02
1375.00	0.1498E-01	3900.00	0.3769E-02
1400.00	0.1464E-01	3925.00	0.3737E-02
1425.00	0.1430E-01	3950.00	0.3705E-02
1450.00	0.1399E-01	3975.00	0.3674E-02
1475.00	0.1368E-01	4000.00	0.3643E-02
1500.00	0.1339E-01	4025.00	0.3613E-02
1525.00	0.1310E-01	4050.00	0.3583E-02
1550.00	0.1283E-01	4075.00	0.3553E-02
1575.00	0.1257E-01	4100.00	0.3524E-02
1600.00	0.1231E-01	4125.00	0.3496E-02
1625.00	0.1206E-01	4150.00	0.3468E-02
1650.00	0.1183E-01	4175.00	0.3440E-02
1675.00	0.1160E-01	4200.00	0.3412E-02
1700.00	0.1138E-01	4225.00	0.3385E-02
1725.00	0.1116E-01	4250.00	0.3358E-02
1750.00	0.1095E-01	4275.00	0.3332E-02
1775.00	0.1075E-01	4300.00	0.3306E-02
1800.00	0.1056E-01	4325.00	0.3280E-02
1825.00	0.1037E-01	4350.00	0.3254E-02
1850.00	0.1018E-01	4375.00	0.3229E-02
1875.00	0.1000E-01	4400.00	0.3204E-02
1900.00	0.9832E-02	4425.00	0.3180E-02
1925.00	0.9665E-02	4450.00	0.3156E-02
1950.00	0.9503E-02	4475.00	0.3132E-02
1975.00	0.9345E-02	4500.00	0.3108E-02
2000.00	0.9191E-02	4525.00	0.3085E-02
2025.00	0.9042E-02	4550.00	0.3062E-02
2050.00	0.8897E-02	4575.00	0.3039E-02
2075.00	0.8756E-02	4600.00	0.3017E-02
2100.00	0.8619E-02	4625.00	0.2995E-02
2125.00	0.8486E-02	4650.00	0.2973E-02
2150.00	0.8355E-02	4675.00	0.2952E-02
2175.00	0.8228E-02	4700.00	0.2930E-02
2200.00	0.8103E-02	4725.00	0.2909E-02
2225.00	0.7984E-02	4750.00	0.2889E-02
2250.00	0.7867E-02	4775.00	0.2868E-02
2275.00	0.7753E-02	4800.00	0.2848E-02
2300.00	0.7641E-02	4825.00	0.2828E-02
2325.00	0.7533E-02	4850.00	0.2809E-02
2350.00	0.7427E-02	4875.00	0.2789E-02
2375.00	0.7323E-02	4900.00	0.2770E-02
2400.00	0.7222E-02	4924.99	0.2751E-02
2425.00	0.7123E-02	4950.00	0.2733E-02
2450.00	0.7027E-02	4975.00	0.2714E-02
2475.00	0.6932E-02	5000.00	0.2696E-02
2500.00	0.6840E-02		

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-----------------------------------------------------------------------------
**********************  AERSCREEN MAXIMUM IMPACT SUMMARY  ********************
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3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

                     MAXIMUM      SCALED      SCALED      SCALED      SCALED
                      1-HOUR      3-HOUR      8-HOUR     24-HOUR      ANNUAL
  CALCULATION          CONC        CONC        CONC        CONC        CONC
   PROCEDURE         (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)
---------------    ----------  ----------  ----------  ----------  ----------
FLAT TERRAIN       0.2056      0.2056      0.2056      0.2056         N/A

DISTANCE FROM SOURCE        210.00 meters



IMPACT AT THE
AMBIENT BOUNDARY   0.1537      0.1537      0.1537      0.1537         N/A

DISTANCE FROM SOURCE          1.00 meters
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 Concentration     Distance Elevation  Diag  Season/Month   Zo sector       Date
  H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS     HT
REF TA     HT
   0.15375E+00         1.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16063E+00        25.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16784E+00        50.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17463E+00        75.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18104E+00       100.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18712E+00       125.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19292E+00       150.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19856E+00       175.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20368E+00       200.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
*  0.20560E+00       210.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17612E+00       225.00      0.00  45.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13462E+00       250.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11947E+00       275.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10338E+00       300.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.91636E-01       325.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82539E-01       350.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.75228E-01       375.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69190E-01       400.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64074E-01       425.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59668E-01       450.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55829E-01       475.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52437E-01       500.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49409E-01       525.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46709E-01       549.99      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44251E-01       575.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42019E-01       600.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39998E-01       625.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38147E-01       650.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36447E-01       675.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34861E-01       700.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33403E-01       725.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32050E-01       750.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30781E-01       775.00      0.00  35.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29602E-01       800.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28510E-01       825.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27478E-01       850.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26502E-01       875.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25591E-01       900.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24740E-01       924.99      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23934E-01       950.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23171E-01       975.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22443E-01      1000.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21760E-01      1025.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21114E-01      1050.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20495E-01      1075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19910E-01      1100.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19353E-01      1125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18825E-01      1150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18317E-01      1175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.17830E-01      1200.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17367E-01      1225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16926E-01      1250.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16505E-01      1275.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16098E-01      1300.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15708E-01      1325.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15337E-01      1350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14980E-01      1375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14635E-01      1400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14304E-01      1425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13987E-01      1450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13683E-01      1475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13387E-01      1500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13102E-01      1525.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12830E-01      1550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12566E-01      1575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12311E-01      1600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.12065E-01      1625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11829E-01      1650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11600E-01      1675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11376E-01      1700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11160E-01      1725.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10953E-01      1750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10752E-01      1775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10556E-01      1800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10367E-01      1825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10183E-01      1850.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10004E-01      1875.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.98318E-02      1900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.96648E-02      1925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.95032E-02      1950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.93448E-02      1975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.91910E-02      2000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.90417E-02      2025.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.88966E-02      2050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.87557E-02      2075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.86187E-02      2100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.84856E-02      2125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.83553E-02      2150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82277E-02      2175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.81034E-02      2200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.79836E-02      2225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.78669E-02      2250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77526E-02      2275.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.76412E-02      2300.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.75326E-02      2325.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.74266E-02      2350.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.73232E-02      2375.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.72221E-02      2400.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.71231E-02      2425.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.70265E-02      2450.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69318E-02      2475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68395E-02      2500.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.67496E-02      2525.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.66616E-02      2550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.65756E-02      2575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64920E-02      2600.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64102E-02      2625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.63303E-02      2650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62521E-02      2675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61757E-02      2700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61007E-02      2725.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.60267E-02      2750.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59543E-02      2775.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58835E-02      2800.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58141E-02      2825.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57462E-02      2850.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.56796E-02      2875.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56144E-02      2900.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55500E-02      2925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54866E-02      2950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54246E-02      2975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53637E-02      3000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53040E-02      3025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52455E-02      3050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51884E-02      3075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51324E-02      3100.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50775E-02      3125.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50237E-02      3150.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49708E-02      3174.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49189E-02      3199.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48679E-02      3225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48179E-02      3250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47687E-02      3275.00      0.00  15.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47203E-02      3300.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46727E-02      3325.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46259E-02      3350.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45799E-02      3375.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45346E-02      3400.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44899E-02      3425.01      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44460E-02      3450.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44028E-02      3475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43605E-02      3500.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43189E-02      3525.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42779E-02      3550.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42377E-02      3575.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41981E-02      3600.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41591E-02      3625.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41207E-02      3650.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40829E-02      3675.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.40458E-02      3700.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40093E-02      3725.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39733E-02      3750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39380E-02      3775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39032E-02      3800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38690E-02      3825.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38352E-02      3850.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38019E-02      3875.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37692E-02      3900.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37369E-02      3925.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37051E-02      3950.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36739E-02      3975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36431E-02      4000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36128E-02      4025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35829E-02      4050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35535E-02      4075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35244E-02      4100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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```
 310.0    2.0
   0.34958E-02      4125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34676E-02      4150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34397E-02      4175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34121E-02      4200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33849E-02      4225.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33581E-02      4250.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33317E-02      4275.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33056E-02      4300.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32798E-02      4325.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32544E-02      4350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32292E-02      4375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32043E-02      4400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31797E-02      4425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31555E-02      4450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31316E-02      4475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31081E-02      4500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30848E-02      4525.00      0.00   0.0        Winter       0-360   10011001
```

```
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30619E-02      4550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30393E-02      4575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30170E-02      4600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29949E-02      4625.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29731E-02      4650.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29516E-02      4675.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29303E-02      4700.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29095E-02      4725.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28889E-02      4750.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28685E-02      4775.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28483E-02      4800.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28284E-02      4825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28088E-02      4850.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27894E-02      4875.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27702E-02      4900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27513E-02      4924.99      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
   0.27327E-02      4950.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27142E-02      4975.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26959E-02      5000.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
AERSCREEN 16216 / AERMOD 19191                                        08/18/20
                                                                      15:05:19

TITLE: Phase 7 Construction


-----------------------------------------------------------------------------
****************************  AREA PARAMETERS  ***************************
-----------------------------------------------------------------------------

SOURCE EMISSION RATE:         0.411E-03 g/s             0.326E-02 lb/hr

AREA EMISSION RATE:           0.416E-08 g/(s-m2)        0.330E-07 lb/(hr-m2)
AREA HEIGHT:                       3.00 meters               9.84 feet
AREA SOURCE LONG SIDE:           326.00 meters            1069.55 feet
AREA SOURCE SHORT SIDE:          303.00 meters             994.09 feet
INITIAL VERTICAL DIMENSION:        1.50 meters               4.92 feet
RURAL OR URBAN:                   URBAN
POPULATION:                     3990000

INITIAL PROBE DISTANCE =          5000. meters             16404. feet



-----------------------------------------------------------------------------
***********************  BUILDING DOWNWASH PARAMETERS  **********************
-----------------------------------------------------------------------------

               BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES



-----------------------------------------------------------------------------
**************************  FLOW SECTOR ANALYSIS  **************************
                 25 meter receptor spacing: 1. meters - 5000. meters
-----------------------------------------------------------------------------


   MAXIMUM  IMPACT  RECEPTOR

   Zo        SURFACE   1-HR CONC  RADIAL  DIST   TEMPORAL
   SECTOR    ROUGHNESS  (ug/m3)    (deg)   (m)    PERIOD
  ---------------------------------------------------
      1*       1.000    0.1718      40   200.0     WIN
* = worst case diagonal



-----------------------------------------------------------------------------
```

```
**********************  MAKEMET METEOROLOGY PARAMETERS  *********************
--------------------------------------------------------------------------------

MIN/MAX TEMPERATURE:    250.0 / 310.0 (K)

MINIMUM WIND SPEED:       0.5 m/s

ANEMOMETER HEIGHT:     10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE:    Average Moisture
DOMINANT SEASON:          Winter

ALBEDO:                  0.35
BOWEN RATIO:             1.50
ROUGHNESS LENGTH:       1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED


       METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT
       -------------------------------------------------------------

 YR MO DY JDY HR
 -- -- -- --- --
 10 01 10  10 01

    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 -1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50

    HT  REF TA     HT
- - - - - - - - - - -
  10.0   310.0    2.0



--------------------------------------------------------------------------------
************************ AERSCREEN AUTOMATED DISTANCES *********************
                  OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
--------------------------------------------------------------------------------


                      MAXIMUM                            MAXIMUM
           DIST     1-HR CONC                  DIST     1-HR CONC
            (m)      (ug/m3)                    (m)      (ug/m3)
         ---------------------              ---------------------
           1.00    0.1297                   2525.00    0.5695E-02
```

25.00	0.1355	2550.00	0.5620E-02
50.00	0.1416	2575.00	0.5548E-02
75.00	0.1473	2600.00	0.5477E-02
100.00	0.1527	2625.00	0.5408E-02
125.00	0.1579	2650.00	0.5341E-02
150.00	0.1628	2675.00	0.5275E-02
175.00	0.1675	2700.00	0.5210E-02
200.00	0.1718	2725.00	0.5147E-02
225.00	0.1486	2750.00	0.5085E-02
250.00	0.1136	2775.00	0.5024E-02
275.00	0.1008	2800.00	0.4964E-02
300.00	0.8722E-01	2825.00	0.4905E-02
325.00	0.7731E-01	2850.00	0.4848E-02
350.01	0.6964E-01	2875.00	0.4792E-02
375.01	0.6347E-01	2900.00	0.4737E-02
400.00	0.5838E-01	2925.00	0.4683E-02
425.00	0.5406E-01	2950.00	0.4629E-02
450.00	0.5034E-01	2975.00	0.4577E-02
475.00	0.4710E-01	3000.00	0.4525E-02
500.00	0.4424E-01	3025.00	0.4475E-02
525.00	0.4169E-01	3050.00	0.4426E-02
549.99	0.3941E-01	3075.00	0.4377E-02
575.00	0.3734E-01	3100.00	0.4330E-02
600.00	0.3545E-01	3125.00	0.4284E-02
625.00	0.3375E-01	3150.00	0.4238E-02
650.00	0.3218E-01	3174.99	0.4194E-02
675.00	0.3075E-01	3199.99	0.4150E-02
700.00	0.2941E-01	3225.00	0.4107E-02
725.00	0.2818E-01	3250.00	0.4065E-02
750.00	0.2704E-01	3275.00	0.4023E-02
775.00	0.2597E-01	3300.00	0.3983E-02
800.00	0.2498E-01	3325.00	0.3942E-02
825.00	0.2405E-01	3350.00	0.3903E-02
850.00	0.2318E-01	3375.00	0.3864E-02
875.00	0.2236E-01	3400.00	0.3826E-02
900.00	0.2159E-01	3425.01	0.3788E-02
924.99	0.2087E-01	3450.00	0.3751E-02
950.00	0.2019E-01	3475.00	0.3715E-02
975.00	0.1955E-01	3500.00	0.3679E-02
1000.00	0.1894E-01	3525.00	0.3644E-02
1025.00	0.1836E-01	3550.00	0.3609E-02
1050.00	0.1781E-01	3575.00	0.3575E-02
1075.00	0.1729E-01	3600.00	0.3542E-02
1100.00	0.1680E-01	3625.00	0.3509E-02
1125.00	0.1633E-01	3650.00	0.3477E-02
1150.00	0.1588E-01	3675.00	0.3445E-02
1175.00	0.1545E-01	3700.00	0.3413E-02
1200.00	0.1504E-01	3725.00	0.3383E-02
1225.00	0.1465E-01	3750.00	0.3352E-02
1250.00	0.1428E-01	3775.00	0.3323E-02

1275.00	0.1393E-01
1300.00	0.1358E-01
1325.00	0.1325E-01
1350.00	0.1294E-01
1375.00	0.1264E-01
1400.00	0.1235E-01
1425.00	0.1207E-01
1450.00	0.1180E-01
1475.00	0.1154E-01
1500.00	0.1130E-01
1525.00	0.1105E-01
1550.00	0.1082E-01
1575.00	0.1060E-01
1600.00	0.1039E-01
1625.00	0.1018E-01
1650.00	0.9980E-02
1675.00	0.9787E-02
1700.00	0.9598E-02
1725.00	0.9416E-02
1750.00	0.9241E-02
1775.00	0.9072E-02
1800.00	0.8906E-02
1825.00	0.8747E-02
1850.00	0.8592E-02
1875.00	0.8441E-02
1900.00	0.8295E-02
1925.00	0.8154E-02
1950.00	0.8018E-02
1975.00	0.7884E-02
2000.00	0.7755E-02
2025.00	0.7629E-02
2050.00	0.7506E-02
2075.00	0.7387E-02
2100.00	0.7272E-02
2125.00	0.7159E-02
2150.00	0.7049E-02
2175.00	0.6942E-02
2200.00	0.6837E-02
2225.00	0.6736E-02
2250.00	0.6637E-02
2275.00	0.6541E-02
2300.00	0.6447E-02
2325.00	0.6355E-02
2350.00	0.6266E-02
2375.00	0.6179E-02
2400.00	0.6093E-02
2425.00	0.6010E-02
2450.00	0.5928E-02
2475.00	0.5848E-02
2500.00	0.5771E-02
3800.00	0.3293E-02
3825.00	0.3264E-02
3850.00	0.3236E-02
3875.00	0.3208E-02
3900.00	0.3180E-02
3925.00	0.3153E-02
3950.00	0.3126E-02
3975.00	0.3100E-02
4000.00	0.3074E-02
4025.00	0.3048E-02
4050.00	0.3023E-02
4075.00	0.2998E-02
4100.00	0.2974E-02
4125.00	0.2949E-02
4150.00	0.2926E-02
4175.00	0.2902E-02
4200.00	0.2879E-02
4225.00	0.2856E-02
4250.00	0.2833E-02
4275.00	0.2811E-02
4300.00	0.2789E-02
4325.00	0.2767E-02
4350.00	0.2746E-02
4375.00	0.2724E-02
4400.00	0.2703E-02
4425.00	0.2683E-02
4450.00	0.2662E-02
4475.00	0.2642E-02
4500.00	0.2622E-02
4525.00	0.2603E-02
4550.00	0.2583E-02
4575.00	0.2564E-02
4600.00	0.2545E-02
4625.00	0.2527E-02
4650.00	0.2508E-02
4675.00	0.2490E-02
4700.00	0.2472E-02
4725.00	0.2455E-02
4750.00	0.2437E-02
4775.00	0.2420E-02
4800.00	0.2403E-02
4825.00	0.2386E-02
4850.00	0.2370E-02
4875.00	0.2353E-02
4900.00	0.2337E-02
4924.99	0.2321E-02
4950.00	0.2306E-02
4975.00	0.2290E-02
5000.00	0.2275E-02

```
-----------------------------------------------------------------------------
**********************  AERSCREEN MAXIMUM IMPACT SUMMARY  ********************
-----------------------------------------------------------------------------

3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

                     MAXIMUM      SCALED      SCALED      SCALED      SCALED
                      1-HOUR      3-HOUR      8-HOUR     24-HOUR      ANNUAL
  CALCULATION          CONC        CONC        CONC        CONC        CONC
   PROCEDURE         (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)
---------------    ----------  ----------  ----------  ----------  ----------
FLAT TERRAIN       0.1735      0.1735      0.1735      0.1735         N/A

DISTANCE FROM SOURCE        210.00 meters



IMPACT AT THE
AMBIENT BOUNDARY   0.1297      0.1297      0.1297      0.1297         N/A

DISTANCE FROM SOURCE          1.00 meters
```

```
 Concentration     Distance Elevation  Diag  Season/Month   Zo sector       Date
  H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS     HT
REF TA     HT
   0.12972E+00         1.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13552E+00        25.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14161E+00        50.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14734E+00        75.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15274E+00       100.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15787E+00       125.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16277E+00       150.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16752E+00       175.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17184E+00       200.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
*  0.17347E+00       210.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14859E+00       225.00      0.00  45.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11358E+00       250.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10080E+00       275.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.87223E-01       300.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77314E-01       325.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69639E-01       350.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.63470E-01       375.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58376E-01       400.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54060E-01       425.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50342E-01       450.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47104E-01       475.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44241E-01       500.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41687E-01       525.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39409E-01       549.99      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37335E-01       575.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35452E-01       600.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33746E-01       625.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32185E-01       650.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30750E-01       675.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29413E-01       700.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28182E-01       725.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27041E-01       750.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25970E-01       775.00      0.00  35.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24976E-01       800.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24054E-01       825.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23183E-01       850.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22360E-01       875.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21592E-01       900.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20873E-01       924.99      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20193E-01       950.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19550E-01       975.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18936E-01      1000.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18359E-01      1025.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17814E-01      1050.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17292E-01      1075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16798E-01      1100.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16328E-01      1125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15883E-01      1150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15454E-01      1175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.15043E-01      1200.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14652E-01      1225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14280E-01      1250.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13925E-01      1275.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13582E-01      1300.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13253E-01      1325.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12940E-01      1350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12639E-01      1375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12348E-01      1400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12069E-01      1425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11801E-01      1450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11544E-01      1475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11295E-01      1500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11055E-01      1525.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10824E-01      1550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10602E-01      1575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10387E-01      1600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.10179E-01      1625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.99799E-02      1650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.97869E-02      1675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.95979E-02      1700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.94159E-02      1725.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.92411E-02      1750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.90717E-02      1775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.89060E-02      1800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.87466E-02      1825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.85917E-02      1850.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.84408E-02      1875.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82951E-02      1900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.81543E-02      1925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.80179E-02      1950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.78843E-02      1975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77545E-02      2000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.76285E-02      2025.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.75061E-02      2050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.73873E-02      2075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.72717E-02      2100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.71593E-02      2125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.70495E-02      2150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69417E-02      2175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68369E-02      2200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.67358E-02      2225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.66373E-02      2250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.65409E-02      2275.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64469E-02      2300.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.63553E-02      2325.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62658E-02      2350.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61786E-02      2375.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.60933E-02      2400.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.60098E-02      2425.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.59283E-02      2450.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58484E-02      2475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57706E-02      2500.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56947E-02      2525.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56204E-02      2550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55479E-02      2575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54773E-02      2600.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54083E-02      2625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53409E-02      2650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52750E-02      2675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52104E-02      2700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51472E-02      2725.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50848E-02      2750.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50237E-02      2775.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49639E-02      2800.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49054E-02      2825.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48481E-02      2850.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.47919E-02      2875.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47369E-02      2900.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46826E-02      2925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46291E-02      2950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45767E-02      2975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45254E-02      3000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44750E-02      3025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44257E-02      3050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43774E-02      3075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43302E-02      3100.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42839E-02      3125.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42385E-02      3150.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41939E-02      3174.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41501E-02      3199.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41071E-02      3225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40649E-02      3250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40233E-02      3275.00      0.00  15.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39825E-02      3300.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39423E-02      3325.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39029E-02      3350.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38641E-02      3375.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38259E-02      3400.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37882E-02      3425.01      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37511E-02      3450.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37147E-02      3475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36790E-02      3500.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36438E-02      3525.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36093E-02      3550.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35753E-02      3575.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35419E-02      3600.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35091E-02      3625.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34767E-02      3650.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34448E-02      3675.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.34135E-02      3700.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33826E-02      3725.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33523E-02      3750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33225E-02      3775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32932E-02      3800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32643E-02      3825.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32357E-02      3850.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32077E-02      3875.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31801E-02      3900.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31529E-02      3925.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31260E-02      3950.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30996E-02      3975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30737E-02      4000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30481E-02      4025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30229E-02      4050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29981E-02      4075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29736E-02      4100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.29495E-02      4125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29257E-02      4150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29021E-02      4175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28788E-02      4200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28559E-02      4225.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28332E-02      4250.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28109E-02      4275.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27889E-02      4300.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27672E-02      4325.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27457E-02      4350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27245E-02      4375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27035E-02      4400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26828E-02      4425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26623E-02      4450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26422E-02      4475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26223E-02      4500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26027E-02      4525.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25833E-02      4550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25643E-02      4575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25454E-02      4600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25269E-02      4625.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25085E-02      4650.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24903E-02      4675.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24723E-02      4700.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24547E-02      4725.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24374E-02      4750.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24201E-02      4775.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24031E-02      4800.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23863E-02      4825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23698E-02      4850.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23534E-02      4875.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23373E-02      4900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23213E-02      4924.99      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
   0.23056E-02      4950.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22900E-02      4975.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22746E-02      5000.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

```
AERSCREEN 16216 / AERMOD 19191                                        08/18/20
                                                                      15:37:33

TITLE: Phase 8 Construction


-----------------------------------------------------------------------------
****************************  AREA PARAMETERS  ***************************
-----------------------------------------------------------------------------

SOURCE EMISSION RATE:         0.430E-03 g/s            0.341E-02 lb/hr

AREA EMISSION RATE:           0.435E-08 g/(s-m2)       0.346E-07 lb/(hr-m2)
AREA HEIGHT:                       3.00 meters              9.84 feet
AREA SOURCE LONG SIDE:           326.00 meters           1069.55 feet
AREA SOURCE SHORT SIDE:          303.00 meters            994.09 feet
INITIAL VERTICAL DIMENSION:        1.50 meters              4.92 feet
RURAL OR URBAN:                   URBAN
POPULATION:                     3990000

INITIAL PROBE DISTANCE =          5000. meters            16404. feet



-----------------------------------------------------------------------------
***********************  BUILDING DOWNWASH PARAMETERS  **********************
-----------------------------------------------------------------------------

               BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES



-----------------------------------------------------------------------------
**************************  FLOW SECTOR ANALYSIS  **************************
                 25 meter receptor spacing: 1. meters - 5000. meters
-----------------------------------------------------------------------------


   MAXIMUM  IMPACT  RECEPTOR

   Zo        SURFACE   1-HR CONC  RADIAL  DIST   TEMPORAL
   SECTOR    ROUGHNESS  (ug/m3)    (deg)   (m)    PERIOD
  ---------------------------------------------------
      1*       1.000    0.1798      40   200.0     WIN
* = worst case diagonal



-----------------------------------------------------------------------------
```

```
**********************  MAKEMET METEOROLOGY PARAMETERS  ********************
-------------------------------------------------------------------------------

MIN/MAX TEMPERATURE:    250.0 / 310.0 (K)

MINIMUM WIND SPEED:       0.5 m/s

ANEMOMETER HEIGHT:     10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE:    Average Moisture
DOMINANT SEASON:          Winter

ALBEDO:                  0.35
BOWEN RATIO:             1.50
ROUGHNESS LENGTH:       1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED


       METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT
       -------------------------------------------------------------

 YR MO DY JDY HR
 -- -- -- --- --
 10 01 10  10 01

    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 -1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50

    HT  REF TA     HT
- - - - - - - - - - -
  10.0   310.0    2.0



-------------------------------------------------------------------------------
************************ AERSCREEN AUTOMATED DISTANCES *********************
                  OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
-------------------------------------------------------------------------------


                      MAXIMUM                              MAXIMUM
           DIST     1-HR CONC                   DIST     1-HR CONC
            (m)      (ug/m3)                     (m)      (ug/m3)
         ---------------------               ---------------------
           1.00    0.1357                   2525.00    0.5959E-02
```

25.00	0.1418	2550.00	0.5881E-02
50.00	0.1482	2575.00	0.5805E-02
75.00	0.1542	2600.00	0.5731E-02
100.00	0.1598	2625.00	0.5659E-02
125.00	0.1652	2650.00	0.5589E-02
150.00	0.1703	2675.00	0.5520E-02
175.00	0.1753	2700.00	0.5452E-02
200.00	0.1798	2725.00	0.5386E-02
225.00	0.1555	2750.00	0.5321E-02
250.00	0.1188	2775.00	0.5257E-02
275.00	0.1055	2800.00	0.5194E-02
300.00	0.9127E-01	2825.00	0.5133E-02
325.00	0.8090E-01	2850.00	0.5073E-02
350.01	0.7287E-01	2875.00	0.5014E-02
375.01	0.6641E-01	2900.00	0.4957E-02
400.00	0.6108E-01	2925.00	0.4900E-02
425.00	0.5657E-01	2950.00	0.4844E-02
450.00	0.5268E-01	2975.00	0.4789E-02
475.00	0.4929E-01	3000.00	0.4735E-02
500.00	0.4629E-01	3025.00	0.4683E-02
525.00	0.4362E-01	3050.00	0.4631E-02
549.99	0.4124E-01	3075.00	0.4580E-02
575.00	0.3907E-01	3100.00	0.4531E-02
600.00	0.3710E-01	3125.00	0.4483E-02
625.00	0.3531E-01	3150.00	0.4435E-02
650.00	0.3368E-01	3174.99	0.4388E-02
675.00	0.3218E-01	3199.99	0.4343E-02
700.00	0.3078E-01	3225.00	0.4298E-02
725.00	0.2949E-01	3250.00	0.4253E-02
750.00	0.2829E-01	3275.00	0.4210E-02
775.00	0.2717E-01	3300.00	0.4167E-02
800.00	0.2613E-01	3325.00	0.4125E-02
825.00	0.2517E-01	3350.00	0.4084E-02
850.00	0.2426E-01	3375.00	0.4043E-02
875.00	0.2340E-01	3400.00	0.4003E-02
900.00	0.2259E-01	3425.01	0.3964E-02
924.99	0.2184E-01	3450.00	0.3925E-02
950.00	0.2113E-01	3475.00	0.3887E-02
975.00	0.2046E-01	3500.00	0.3850E-02
1000.00	0.1981E-01	3525.00	0.3813E-02
1025.00	0.1921E-01	3550.00	0.3777E-02
1050.00	0.1864E-01	3575.00	0.3741E-02
1075.00	0.1809E-01	3600.00	0.3706E-02
1100.00	0.1758E-01	3625.00	0.3672E-02
1125.00	0.1709E-01	3650.00	0.3638E-02
1150.00	0.1662E-01	3675.00	0.3605E-02
1175.00	0.1617E-01	3700.00	0.3572E-02
1200.00	0.1574E-01	3725.00	0.3539E-02
1225.00	0.1533E-01	3750.00	0.3508E-02
1250.00	0.1494E-01	3775.00	0.3477E-02

1275.00	0.1457E-01
1300.00	0.1421E-01
1325.00	0.1387E-01
1350.00	0.1354E-01
1375.00	0.1322E-01
1400.00	0.1292E-01
1425.00	0.1263E-01
1450.00	0.1235E-01
1475.00	0.1208E-01
1500.00	0.1182E-01
1525.00	0.1157E-01
1550.00	0.1133E-01
1575.00	0.1109E-01
1600.00	0.1087E-01
1625.00	0.1065E-01
1650.00	0.1044E-01
1675.00	0.1024E-01
1700.00	0.1004E-01
1725.00	0.9853E-02
1750.00	0.9670E-02
1775.00	0.9492E-02
1800.00	0.9319E-02
1825.00	0.9152E-02
1850.00	0.8990E-02
1875.00	0.8832E-02
1900.00	0.8680E-02
1925.00	0.8532E-02
1950.00	0.8390E-02
1975.00	0.8250E-02
2000.00	0.8114E-02
2025.00	0.7982E-02
2050.00	0.7854E-02
2075.00	0.7730E-02
2100.00	0.7609E-02
2125.00	0.7491E-02
2150.00	0.7376E-02
2175.00	0.7264E-02
2200.00	0.7154E-02
2225.00	0.7048E-02
2250.00	0.6945E-02
2275.00	0.6844E-02
2300.00	0.6746E-02
2325.00	0.6650E-02
2350.00	0.6556E-02
2375.00	0.6465E-02
2400.00	0.6376E-02
2425.00	0.6289E-02
2450.00	0.6203E-02
2475.00	0.6120E-02
2500.00	0.6038E-02
3800.00	0.3446E-02
3825.00	0.3416E-02
3850.00	0.3386E-02
3875.00	0.3356E-02
3900.00	0.3328E-02
3925.00	0.3299E-02
3950.00	0.3271E-02
3975.00	0.3243E-02
4000.00	0.3216E-02
4025.00	0.3189E-02
4050.00	0.3163E-02
4075.00	0.3137E-02
4100.00	0.3111E-02
4125.00	0.3086E-02
4150.00	0.3061E-02
4175.00	0.3037E-02
4200.00	0.3012E-02
4225.00	0.2988E-02
4250.00	0.2965E-02
4275.00	0.2941E-02
4300.00	0.2918E-02
4325.00	0.2896E-02
4350.00	0.2873E-02
4375.00	0.2851E-02
4400.00	0.2829E-02
4425.00	0.2807E-02
4450.00	0.2786E-02
4475.00	0.2765E-02
4500.00	0.2744E-02
4525.00	0.2723E-02
4550.00	0.2703E-02
4575.00	0.2683E-02
4600.00	0.2663E-02
4625.00	0.2644E-02
4650.00	0.2625E-02
4675.00	0.2606E-02
4700.00	0.2587E-02
4725.00	0.2569E-02
4750.00	0.2550E-02
4775.00	0.2532E-02
4800.00	0.2515E-02
4825.00	0.2497E-02
4850.00	0.2480E-02
4875.00	0.2463E-02
4900.00	0.2446E-02
4924.99	0.2429E-02
4950.00	0.2412E-02
4975.00	0.2396E-02
5000.00	0.2380E-02

```
-----------------------------------------------------------------------------
**********************  AERSCREEN MAXIMUM IMPACT SUMMARY  ********************
-----------------------------------------------------------------------------

3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

                     MAXIMUM      SCALED      SCALED      SCALED      SCALED
                      1-HOUR      3-HOUR      8-HOUR     24-HOUR      ANNUAL
  CALCULATION          CONC        CONC        CONC        CONC        CONC
   PROCEDURE         (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)
---------------    ----------  ----------  ----------  ----------  ----------
FLAT TERRAIN       0.1815      0.1815      0.1815      0.1815         N/A

DISTANCE FROM SOURCE        210.00 meters



IMPACT AT THE
AMBIENT BOUNDARY   0.1357      0.1357      0.1357      0.1357         N/A

DISTANCE FROM SOURCE          1.00 meters
```

```
 Concentration     Distance Elevation  Diag  Season/Month   Zo sector       Date
  H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS     HT
REF TA     HT
   0.13573E+00         1.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14180E+00        25.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14818E+00        50.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15417E+00        75.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15983E+00       100.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16519E+00       125.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17031E+00       150.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17529E+00       175.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17981E+00       200.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
*  0.18151E+00       210.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15548E+00       225.00      0.00  45.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11885E+00       250.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10547E+00       275.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.91267E-01       300.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.80899E-01       325.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.72868E-01       350.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
```

```
 310.0    2.0
   0.66413E-01       375.01      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61083E-01       400.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56566E-01       425.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52676E-01       450.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49288E-01       475.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46293E-01       500.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43620E-01       525.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41236E-01       549.99      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39066E-01       575.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37096E-01       600.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35311E-01       625.00      0.00  40.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33677E-01       650.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32176E-01       675.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30777E-01       700.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29489E-01       725.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28295E-01       750.00      0.00  35.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27175E-01       775.00      0.00  35.0        Winter       0-360   10011001
```

```
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26134E-01       800.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25169E-01       825.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24258E-01       850.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23397E-01       875.00      0.00  30.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.22593E-01       900.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21841E-01       924.99      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.21129E-01       950.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.20457E-01       975.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19814E-01      1000.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.19210E-01      1025.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18640E-01      1050.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.18094E-01      1075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17577E-01      1100.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.17085E-01      1125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16619E-01      1150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.16171E-01      1175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.15741E-01      1200.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.15332E-01      1225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14943E-01      1250.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14571E-01      1275.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.14212E-01      1300.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13868E-01      1325.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13540E-01      1350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.13225E-01      1375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12920E-01      1400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12628E-01      1425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12348E-01      1450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.12079E-01      1475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11819E-01      1500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11567E-01      1525.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11326E-01      1550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.11093E-01      1575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10869E-01      1600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.10651E-01      1625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10443E-01      1650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10241E-01      1675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.10043E-01      1700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.98525E-02      1725.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.96696E-02      1750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.94924E-02      1775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.93190E-02      1800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.91521E-02      1825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.89902E-02      1850.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.88322E-02      1875.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.86798E-02      1900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.85324E-02      1925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.83897E-02      1950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.82499E-02      1975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.81141E-02      2000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.79823E-02      2025.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.78542E-02      2050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.77298E-02      2075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.76089E-02      2100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.74913E-02      2125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.73763E-02      2150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.72636E-02      2175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.71540E-02      2200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.70482E-02      2225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.69451E-02      2250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.68442E-02      2275.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.67459E-02      2300.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.66500E-02      2325.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.65564E-02      2350.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.64651E-02      2375.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.63759E-02      2400.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.62885E-02      2425.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.62032E-02      2450.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.61196E-02      2475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.60381E-02      2500.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.59587E-02      2525.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58810E-02      2550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.58052E-02      2575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.57313E-02      2600.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.56591E-02      2625.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55886E-02      2650.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.55196E-02      2675.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.54521E-02      2700.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53859E-02      2725.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.53206E-02      2750.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.52567E-02      2775.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51941E-02      2800.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.51329E-02      2825.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.50729E-02      2850.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.50141E-02      2875.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.49565E-02      2900.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48997E-02      2925.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.48438E-02      2950.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47890E-02      2975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.47352E-02      3000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46826E-02      3025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.46309E-02      3050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45804E-02      3075.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.45310E-02      3100.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44826E-02      3125.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.44350E-02      3150.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43884E-02      3174.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.43425E-02      3199.99      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42975E-02      3225.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42534E-02      3250.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.42099E-02      3275.00      0.00  15.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41672E-02      3300.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.41252E-02      3325.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40839E-02      3350.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40433E-02      3375.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.40033E-02      3400.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39638E-02      3425.01      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.39251E-02      3450.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38869E-02      3475.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38496E-02      3500.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.38128E-02      3525.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37767E-02      3550.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37411E-02      3575.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.37062E-02      3600.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36718E-02      3625.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36379E-02      3650.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.36045E-02      3675.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

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   0.35717E-02      3700.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35395E-02      3725.00      0.00  25.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.35077E-02      3750.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34766E-02      3775.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34459E-02      3800.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.34156E-02      3825.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33858E-02      3850.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33565E-02      3875.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.33275E-02      3900.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32991E-02      3925.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32710E-02      3950.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32434E-02      3975.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.32162E-02      4000.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31895E-02      4025.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31631E-02      4050.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31371E-02      4075.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.31115E-02      4100.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
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 310.0    2.0
   0.30862E-02      4125.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30613E-02      4150.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30366E-02      4175.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.30123E-02      4200.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29883E-02      4225.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29646E-02      4250.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29413E-02      4275.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.29182E-02      4300.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28955E-02      4325.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28731E-02      4350.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28508E-02      4375.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28288E-02      4400.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.28072E-02      4425.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27858E-02      4450.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27647E-02      4475.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27439E-02      4500.00      0.00   0.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27233E-02      4525.00      0.00   0.0        Winter       0-360   10011001
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-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.27031E-02      4550.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26832E-02      4575.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26635E-02      4600.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26440E-02      4625.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26248E-02      4650.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.26058E-02      4675.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25870E-02      4700.00      0.00   5.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25686E-02      4725.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25504E-02      4750.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25324E-02      4775.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.25146E-02      4800.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24970E-02      4825.00      0.00  10.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24797E-02      4850.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24626E-02      4875.00      0.00  20.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24456E-02      4900.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.24290E-02      4924.99      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
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   0.24125E-02      4950.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23962E-02      4975.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
   0.23801E-02      5000.00      0.00  15.0        Winter       0-360   10011001
-1.30  0.043 -9.000  0.020 -999.   21.      6.0 1.000   1.50   0.35    0.50   10.0
 310.0    2.0
```

Burbank De Soto Operational Existing (All Phases)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	319.04	1000sqft	9.50	319,039.00	0
Parking Lot	1,196.00	Space	14.26	478,400.00	0
Health Club	18.30	1000sqft	0.55	18,300.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.09	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with IS/MND's model.

Vehicle Trips - Consistent with IS/MND's model.

Waste Mitigation - Consistent with IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	319,040.00	319,039.00
tblLandUse	LotAcreage	7.32	9.50
tblLandUse	LotAcreage	10.76	14.26
tblLandUse	LotAcreage	0.42	0.55
tblLandUse	LotAcreage	0.07	0.09
tblVehicleTrips	ST_TR	2.46	2.19
tblVehicleTrips	ST_TR	20.87	20.24
tblVehicleTrips	ST_TR	158.37	122.90
tblVehicleTrips	SU_TR	1.05	0.93
tblVehicleTrips	SU_TR	26.73	25.93
tblVehicleTrips	SU_TR	131.84	102.31
tblVehicleTrips	WD_TR	11.03	9.82
tblVehicleTrips	WD_TR	32.93	31.93
tblVehicleTrips	WD_TR	127.15	98.67

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2009	2.0001	1.4634	3.3200e-003	0.3189	0.0857	0.4046	0.1333	0.0794	0.2127	0.0000	297.8092	297.8092	0.0605	0.0000	299.3218
2021	0.4776	4.1371	4.1707	0.0124	0.5563	0.1323	0.6886	0.1503	0.1244	0.2747	0.0000	1,135.9827	1,135.9827	0.1112	0.0000	1,138.7631
2022	1.8064	1.2344	1.3546	3.9000e-003	0.1704	0.0392	0.2097	0.0460	0.0368	0.0828	0.0000	355.5216	355.5216	0.0385	0.0000	356.4838
Maximum	**1.8064**	**4.1371**	**4.1707**	**0.0124**	**0.5563**	**0.1323**	**0.6886**	**0.1503**	**0.1244**	**0.2747**	**0.0000**	**1,135.9827**	**1,135.9827**	**0.1112**	**0.0000**	**1,138.7631**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2009	2.0001	1.4634	3.3200e-003	0.3189	0.0857	0.4046	0.1333	0.0794	0.2127	0.0000	297.8090	297.8090	0.0605	0.0000	299.3216
2021	0.4776	4.1371	4.1707	0.0124	0.5563	0.1323	0.6886	0.1503	0.1244	0.2747	0.0000	1,135.9823	1,135.9823	0.1112	0.0000	1,138.7627
2022	1.8064	1.2344	1.3546	3.9000e-003	0.1704	0.0392	0.2097	0.0460	0.0368	0.0828	0.0000	355.5215	355.5215	0.0385	0.0000	356.4837
Maximum	**1.8064**	**4.1371**	**4.1707**	**0.0124**	**0.5563**	**0.1323**	**0.6886**	**0.1503**	**0.1244**	**0.2747**	**0.0000**	**1,135.9823**	**1,135.9823**	**0.1112**	**0.0000**	**1,138.7627**

Burbank De Soto Operational Existing (All Phases) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**8-18-2020**	**11-17-2020**	1.5727	1.5727
2	**11-18-2020**	**2-17-2021**	1.2137	1.2137
3	**2-18-2021**	**5-17-2021**	1.1164	1.1164
4	**5-18-2021**	**8-17-2021**	1.1502	1.1502
5	**8-18-2021**	**11-17-2021**	1.1544	1.1544
6	**11-18-2021**	**2-17-2022**	1.1090	1.1090
7	**2-18-2022**	**5-17-2022**	0.8938	0.8938
8	**5-18-2022**	**8-17-2022**	1.6048	1.6048
		Highest	1.6048	1.6048

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4269	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0381	0.0381	1.0000e-004	0.0000	0.0406
Energy	0.0234	0.2130	0.1789	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	2,820.2211	2,820.2211	0.0656	0.0169	2,826.8962
Mobile	0.5122	3.1150	6.5160	0.0335	3.5057	0.0172	3.5229	0.9393	0.0160	0.9553	0.0000	3,119.2761	3,119.2761	0.1246	0.0000	3,122.3903
Waste						0.0000	0.0000		0.0000	0.0000	88.6502	0.0000	88.6502	5.2391	0.0000	219.6272
Water						0.0000	0.0000		0.0000	0.0000	18.6219	645.2006	663.8225	1.9279	0.0483	726.4173
Total	**1.9625**	**3.3281**	**6.7144**	**0.0347**	**3.5057**	**0.0335**	**3.5391**	**0.9393**	**0.0322**	**0.9716**	**107.2721**	**6,584.7360**	**6,692.0081**	**7.3572**	**0.0652**	**6,895.3715**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4269	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0381	0.0381	1.0000e-004	0.0000	0.0406
Energy	0.0234	0.2130	0.1789	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	2,820.2211	2,820.2211	0.0656	0.0169	2,826.8962
Mobile	0.5122	3.1150	6.5160	0.0335	3.5057	0.0172	3.5229	0.9393	0.0160	0.9553	0.0000	3,119.2761	3,119.2761	0.1246	0.0000	3,122.3903
Waste						0.0000	0.0000		0.0000	0.0000	88.6502	0.0000	88.6502	5.2391	0.0000	219.6272
Water						0.0000	0.0000		0.0000	0.0000	18.6219	645.2006	663.8225	1.9279	0.0483	726.4173
Total	**1.9625**	**3.3281**	**6.7144**	**0.0347**	**3.5057**	**0.0335**	**3.5391**	**0.9393**	**0.0322**	**0.9716**	**107.2721**	**6,584.7360**	**6,692.0081**	**7.3572**	**0.0652**	**6,895.3715**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/18/2020	9/14/2020	5	20	
2	Site Preparation	Site Preparation	9/15/2020	9/28/2020	5	10	
3	Grading	Grading	9/29/2020	11/16/2020	5	35	
4	Building Construction	Building Construction	11/17/2020	4/18/2022	5	370	
5	Paving	Paving	4/19/2022	5/16/2022	5	20	
6	Architectural Coating	Architectural Coating	5/17/2022	6/13/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 14.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 510,509; Non-Residential Outdoor: 170,170; Striped Parking Area: 28,704 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Operational Existing (All Phases) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	312.00	134.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**		**0.0166**	**0.0166**		**0.0154**	**0.0154**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	5.6000e-004	6.1700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5332
Total	**6.9000e-004**	**5.6000e-004**	**6.1700e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.5320**	**1.5320**	**5.0000e-005**	**0.0000**	**1.5332**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**		**0.0166**	**0.0166**		**0.0154**	**0.0154**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	5.6000e-004	6.1700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5332
Total	**6.9000e-004**	**5.6000e-004**	**6.1700e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.5320**	**1.5320**	**5.0000e-005**	**0.0000**	**1.5332**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.4000e-004	3.7000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9192	0.9192	3.0000e-005	0.0000	0.9199
Total	**4.2000e-004**	**3.4000e-004**	**3.7000e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.9192**	**0.9192**	**3.0000e-005**	**0.0000**	**0.9199**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.4000e-004	3.7000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9192	0.9192	3.0000e-005	0.0000	0.9199
Total	**4.2000e-004**	**3.4000e-004**	**3.7000e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.9192**	**0.9192**	**3.0000e-005**	**0.0000**	**0.9199**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8785	0.5593	1.0900e-003		0.0380	0.0380		0.0350	0.0350	0.0000	95.3475	95.3475	0.0308	0.0000	96.1185
Total	**0.0779**	**0.8785**	**0.5593**	**1.0900e-003**	**0.1518**	**0.0380**	**0.1898**	**0.0629**	**0.0350**	**0.0979**	**0.0000**	**95.3475**	**95.3475**	**0.0308**	**0.0000**	**96.1185**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6200e-003	1.3000e-003	0.0144	4.0000e-005	3.8400e-003	3.0000e-005	3.8700e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.5747	3.5747	1.1000e-004	0.0000	3.5775
Total	**1.6200e-003**	**1.3000e-003**	**0.0144**	**4.0000e-005**	**3.8400e-003**	**3.0000e-005**	**3.8700e-003**	**1.0200e-003**	**3.0000e-005**	**1.0500e-003**	**0.0000**	**3.5747**	**3.5747**	**1.1000e-004**	**0.0000**	**3.5775**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8785	0.5593	1.0900e-003		0.0380	0.0380		0.0350	0.0350	0.0000	95.3474	95.3474	0.0308	0.0000	96.1183
Total	**0.0779**	**0.8785**	**0.5593**	**1.0900e-003**	**0.1518**	**0.0380**	**0.1898**	**0.0629**	**0.0350**	**0.0979**	**0.0000**	**95.3474**	**95.3474**	**0.0308**	**0.0000**	**96.1183**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6200e-003	1.3000e-003	0.0144	4.0000e-005	3.8400e-003	3.0000e-005	3.8700e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.5747	3.5747	1.1000e-004	0.0000	3.5775
Total	**1.6200e-003**	**1.3000e-003**	**0.0144**	**4.0000e-005**	**3.8400e-003**	**3.0000e-005**	**3.8700e-003**	**1.0200e-003**	**3.0000e-005**	**1.0500e-003**	**0.0000**	**3.5747**	**3.5747**	**1.1000e-004**	**0.0000**	**3.5775**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0350	0.3166	0.2780	4.4000e-004		0.0184	0.0184		0.0173	0.0173	0.0000	38.2157	38.2157	9.3200e-003	0.0000	38.4487
Total	**0.0350**	**0.3166**	**0.2780**	**4.4000e-004**		**0.0184**	**0.0184**		**0.0173**	**0.0173**	**0.0000**	**38.2157**	**38.2157**	**9.3200e-003**	**0.0000**	**38.4487**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0200e-003	0.2396	0.0649	5.7000e-004	0.0139	1.1100e-003	0.0150	4.0200e-003	1.0700e-003	5.0900e-003	0.0000	54.9270	54.9270	3.4900e-003	0.0000	55.0143
Worker	0.0238	0.0192	0.2119	5.8000e-004	0.0564	4.8000e-004	0.0569	0.0150	4.4000e-004	0.0154	0.0000	52.5791	52.5791	1.6600e-003	0.0000	52.6206
Total	**0.0318**	**0.2588**	**0.2768**	**1.1500e-003**	**0.0703**	**1.5900e-003**	**0.0719**	**0.0190**	**1.5100e-003**	**0.0205**	**0.0000**	**107.5062**	**107.5062**	**5.1500e-003**	**0.0000**	**107.6348**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0350	0.3166	0.2780	4.4000e-004		0.0184	0.0184		0.0173	0.0173	0.0000	38.2156	38.2156	9.3200e-003	0.0000	38.4487
Total	**0.0350**	**0.3166**	**0.2780**	**4.4000e-004**		**0.0184**	**0.0184**		**0.0173**	**0.0173**	**0.0000**	**38.2156**	**38.2156**	**9.3200e-003**	**0.0000**	**38.4487**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0200e-003	0.2396	0.0649	5.7000e-004	0.0139	1.1100e-003	0.0150	4.0200e-003	1.0700e-003	5.0900e-003	0.0000	54.9270	54.9270	3.4900e-003	0.0000	55.0143
Worker	0.0238	0.0192	0.2119	5.8000e-004	0.0564	4.8000e-004	0.0569	0.0150	4.4000e-004	0.0154	0.0000	52.5791	52.5791	1.6600e-003	0.0000	52.6206
Total	**0.0318**	**0.2588**	**0.2768**	**1.1500e-003**	**0.0703**	**1.5900e-003**	**0.0719**	**0.0190**	**1.5100e-003**	**0.0205**	**0.0000**	**107.5062**	**107.5062**	**5.1500e-003**	**0.0000**	**107.6348**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2867**	**302.2867**	**0.0729**	**0.0000**	**304.1099**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0543	1.7258	0.4679	4.4500e-003	0.1102	3.5200e-003	0.1137	0.0318	3.3600e-003	0.0352	0.0000	431.0486	431.0486	0.0264	0.0000	431.7096
Worker	0.1752	0.1364	1.5397	4.4600e-003	0.4462	3.6800e-003	0.4498	0.1185	3.3900e-003	0.1219	0.0000	402.6475	402.6475	0.0119	0.0000	402.9437
Total	**0.2295**	**1.8622**	**2.0076**	**8.9100e-003**	**0.5563**	**7.2000e-003**	**0.5635**	**0.1503**	**6.7500e-003**	**0.1571**	**0.0000**	**833.6960**	**833.6960**	**0.0383**	**0.0000**	**834.6532**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2863**	**302.2863**	**0.0729**	**0.0000**	**304.1095**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0543	1.7258	0.4679	4.4500e-003	0.1102	3.5200e-003	0.1137	0.0318	3.3600e-003	0.0352	0.0000	431.0486	431.0486	0.0264	0.0000	431.7096
Worker	0.1752	0.1364	1.5397	4.4600e-003	0.4462	3.6800e-003	0.4498	0.1185	3.3900e-003	0.1219	0.0000	402.6475	402.6475	0.0119	0.0000	402.9437
Total	**0.2295**	**1.8622**	**2.0076**	**8.9100e-003**	**0.5563**	**7.2000e-003**	**0.5635**	**0.1503**	**6.7500e-003**	**0.1571**	**0.0000**	**833.6960**	**833.6960**	**0.0383**	**0.0000**	**834.6532**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0648	0.5934	0.6218	1.0200e-003		0.0307	0.0307		0.0289	0.0289	0.0000	88.0556	88.0556	0.0211	0.0000	88.5830
Total	**0.0648**	**0.5934**	**0.6218**	**1.0200e-003**		**0.0307**	**0.0307**		**0.0289**	**0.0289**	**0.0000**	**88.0556**	**88.0556**	**0.0211**	**0.0000**	**88.5830**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0148	0.4774	0.1289	1.2800e-003	0.0321	9.0000e-004	0.0330	9.2600e-003	8.6000e-004	0.0101	0.0000	124.4136	124.4136	7.4300e-003	0.0000	124.5994
Worker	0.0478	0.0359	0.4131	1.2500e-003	0.1299	1.0400e-003	0.1310	0.0345	9.6000e-004	0.0355	0.0000	113.1246	113.1246	3.1200e-003	0.0000	113.2025
Total	**0.0627**	**0.5133**	**0.5420**	**2.5300e-003**	**0.1620**	**1.9400e-003**	**0.1639**	**0.0438**	**1.8200e-003**	**0.0456**	**0.0000**	**237.5382**	**237.5382**	**0.0106**	**0.0000**	**237.8019**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0648	0.5934	0.6218	1.0200e-003		0.0307	0.0307		0.0289	0.0289	0.0000	88.0555	88.0555	0.0211	0.0000	88.5829
Total	**0.0648**	**0.5934**	**0.6218**	**1.0200e-003**		**0.0307**	**0.0307**		**0.0289**	**0.0289**	**0.0000**	**88.0555**	**88.0555**	**0.0211**	**0.0000**	**88.5829**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0148	0.4774	0.1289	1.2800e-003	0.0321	9.0000e-004	0.0330	9.2600e-003	8.6000e-004	0.0101	0.0000	124.4136	124.4136	7.4300e-003	0.0000	124.5994
Worker	0.0478	0.0359	0.4131	1.2500e-003	0.1299	1.0400e-003	0.1310	0.0345	9.6000e-004	0.0355	0.0000	113.1246	113.1246	3.1200e-003	0.0000	113.2025
Total	**0.0627**	**0.5133**	**0.5420**	**2.5300e-003**	**0.1620**	**1.9400e-003**	**0.1639**	**0.0438**	**1.8200e-003**	**0.0456**	**0.0000**	**237.5382**	**237.5382**	**0.0106**	**0.0000**	**237.8019**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0297**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0276**	**20.0276**	**6.4800e-003**	**0.0000**	**20.1895**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0297**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0275**	**20.0275**	**6.4800e-003**	**0.0000**	**20.1895**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.6461**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.8800e-003	0.0216	7.0000e-005	6.7900e-003	5.0000e-005	6.8500e-003	1.8000e-003	5.0000e-005	1.8500e-003	0.0000	5.9158	5.9158	1.6000e-004	0.0000	5.9198
Total	**2.5000e-003**	**1.8800e-003**	**0.0216**	**7.0000e-005**	**6.7900e-003**	**5.0000e-005**	**6.8500e-003**	**1.8000e-003**	**5.0000e-005**	**1.8500e-003**	**0.0000**	**5.9158**	**5.9158**	**1.6000e-004**	**0.0000**	**5.9198**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.6461**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.8800e-003	0.0216	7.0000e-005	6.7900e-003	5.0000e-005	6.8500e-003	1.8000e-003	5.0000e-005	1.8500e-003	0.0000	5.9158	5.9158	1.6000e-004	0.0000	5.9198
Total	**2.5000e-003**	**1.8800e-003**	**0.0216**	**7.0000e-005**	**6.7900e-003**	**5.0000e-005**	**6.8500e-003**	**1.8000e-003**	**5.0000e-005**	**1.8500e-003**	**0.0000**	**5.9158**	**5.9158**	**1.6000e-004**	**0.0000**	**5.9198**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5122	3.1150	6.5160	0.0335	3.5057	0.0172	3.5229	0.9393	0.0160	0.9553	0.0000	3,119.2761	3,119.2761	0.1246	0.0000	3,122.3903
Unmitigated	0.5122	3.1150	6.5160	0.0335	3.5057	0.0172	3.5229	0.9393	0.0160	0.9553	0.0000	3,119.2761	3,119.2761	0.1246	0.0000	3,122.3903

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	3,132.97	698.70	296.71	7,667,201	7,667,201
Health Club	584.32	370.39	474.52	1,150,813	1,150,813
High Turnover (Sit Down Restaurant)	296.01	368.70	306.93	419,690	419,690
Parking Lot	0.00	0.00	0.00		
Total	4,013.30	1,437.79	1,078.16	9,237,704	9,237,704

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Health Club	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
High Turnover (Sit Down Restaurant)	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Parking Lot	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,588.3710	2,588.3710	0.0611	0.0127	2,593.6684
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,588.3710	2,588.3710	0.0611	0.0127	2,593.6684
NaturalGas Mitigated	0.0234	0.2130	0.1789	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	231.8501	231.8501	4.4400e-003	4.2500e-003	233.2278
NaturalGas Unmitigated	0.0234	0.2130	0.1789	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	231.8501	231.8501	4.4400e-003	4.2500e-003	233.2278

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	3.3212e+006	0.0179	0.1628	0.1368	9.8000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	177.2317	177.2317	3.4000e-003	3.2500e-003	178.2849
Health Club	331230	1.7900e-003	0.0162	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.6757	17.6757	3.4000e-004	3.2000e-004	17.7807
High Turnover (Sit Down Restaurant)	692280	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	36.9427	36.9427	7.1000e-004	6.8000e-004	37.1622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0234**	**0.2130**	**0.1789**	**1.2800e-003**		**0.0162**	**0.0162**		**0.0162**	**0.0162**	**0.0000**	**231.8501**	**231.8501**	**4.4500e-003**	**4.2500e-003**	**233.2278**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	3.3212e+006	0.0179	0.1628	0.1368	9.8000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	177.2317	177.2317	3.4000e-003	3.2500e-003	178.2849
Health Club	331230	1.7900e-003	0.0162	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.6757	17.6757	3.4000e-004	3.2000e-004	17.7807
High Turnover (Sit Down Restaurant)	692280	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	36.9427	36.9427	7.1000e-004	6.8000e-004	37.1622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0234**	**0.2130**	**0.1789**	**1.2800e-003**		**0.0162**	**0.0162**		**0.0162**	**0.0162**	**0.0000**	**231.8501**	**231.8501**	**4.4500e-003**	**4.2500e-003**	**233.2278**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	4.14432e+006	2,308.2249	0.0545	0.0113	2,312.9490
Health Club	203130	113.1356	2.6700e-003	5.5000e-004	113.3671
High Turnover (Sit Down Restaurant)	132420	73.7529	1.7400e-003	3.6000e-004	73.9038
Parking Lot	167440	93.2576	2.2000e-003	4.6000e-004	93.4485
Total		**2,588.3710**	**0.0611**	**0.0127**	**2,593.6684**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	4.14432e+006	2,308.2249	0.0545	0.0113	2,312.9490
Health Club	203130	113.1356	2.6700e-003	5.5000e-004	113.3671
High Turnover (Sit Down Restaurant)	132420	73.7529	1.7400e-003	3.6000e-004	73.9038
Parking Lot	167440	93.2576	2.2000e-003	4.6000e-004	93.4485
Total		**2,588.3710**	**0.0611**	**0.0127**	**2,593.6684**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4269	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0381	0.0381	1.0000e-004	0.0000	0.0406
Unmitigated	1.4269	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0381	0.0381	1.0000e-004	0.0000	0.0406

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1644					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2607					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7800e-003	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0381	0.0381	1.0000e-004	0.0000	0.0406
Total	**1.4269**	**1.8000e-004**	**0.0195**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0381**	**0.0381**	**1.0000e-004**	**0.0000**	**0.0406**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1644					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2607					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7800e-003	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0381	0.0381	1.0000e-004	0.0000	0.0406
Total	**1.4269**	**1.8000e-004**	**0.0195**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0381**	**0.0381**	**1.0000e-004**	**0.0000**	**0.0406**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	663.8225	1.9279	0.0483	726.4173
Unmitigated	663.8225	1.9279	0.0483	726.4173

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	56.7042 / 34.7542	644.2728	1.8625	0.0467	704.7484
Health Club	1.08232 / 0.663357	12.2973	0.0356	8.9000e-004	13.4516
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	7.2524	0.0298	7.3000e-004	8.2172
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**663.8225**	**1.9279**	**0.0483**	**726.4173**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	56.7042 / 34.7542	644.2728	1.8625	0.0467	704.7484
Health Club	1.08232 / 0.663357	12.2973	0.0356	8.9000e-004	13.4516
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	7.2524	0.0298	7.3000e-004	8.2172
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**663.8225**	**1.9279**	**0.0483**	**726.4173**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	88.6502	5.2391	0.0000	219.6272
Unmitigated	88.6502	5.2391	0.0000	219.6272

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	296.71	60.2295	3.5595	0.0000	149.2159
Health Club	104.31	21.1740	1.2514	0.0000	52.4577
High Turnover (Sit Down Restaurant)	35.7	7.2468	0.4283	0.0000	17.9536
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**88.6502**	**5.2391**	**0.0000**	**219.6272**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	296.71	60.2295	3.5595	0.0000	149.2159
Health Club	104.31	21.1740	1.2514	0.0000	52.4577
High Turnover (Sit Down Restaurant)	35.7	7.2468	0.4283	0.0000	17.9536
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**88.6502**	**5.2391**	**0.0000**	**219.6272**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Operational Existing (All Phases)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	319.04	1000sqft	9.50	319,039.00	0
Parking Lot	1,196.00	Space	14.26	478,400.00	0
Health Club	18.30	1000sqft	0.55	18,300.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.09	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with IS/MND's model.

Vehicle Trips - Consistent with IS/MND's model.

Waste Mitigation - Consistent with IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	319,040.00	319,039.00
tblLandUse	LotAcreage	7.32	9.50
tblLandUse	LotAcreage	10.76	14.26
tblLandUse	LotAcreage	0.42	0.55
tblLandUse	LotAcreage	0.07	0.09
tblVehicleTrips	ST_TR	2.46	2.19
tblVehicleTrips	ST_TR	20.87	20.24
tblVehicleTrips	ST_TR	158.37	122.90
tblVehicleTrips	SU_TR	1.05	0.93
tblVehicleTrips	SU_TR	26.73	25.93
tblVehicleTrips	SU_TR	131.84	102.31
tblVehicleTrips	WD_TR	11.03	9.82
tblVehicleTrips	WD_TR	32.93	31.93
tblVehicleTrips	WD_TR	127.15	98.67

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5421	50.2630	34.2439	0.0985	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	9,934.6661	9,934.6661	1.9498	0.0000	9,958.7930
2021	3.6456	31.3614	32.5429	0.0971	4.3453	1.0134	5.3587	1.1719	0.9527	2.1246	0.0000	9,789.7263	9,789.7263	0.9377	0.0000	9,813.1688
2022	164.8530	28.8183	31.1754	0.0955	4.3453	0.8596	5.2049	1.1719	0.8085	1.9804	0.0000	9,633.6269	9,633.6269	0.9161	0.0000	9,656.5293
Maximum	**164.8530**	**50.2630**	**34.2439**	**0.0985**	**18.2675**	**2.1991**	**20.4666**	**9.9840**	**2.0232**	**12.0072**	**0.0000**	**9,934.6661**	**9,934.6661**	**1.9498**	**0.0000**	**9,958.7930**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5421	50.2630	34.2439	0.0985	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	9,934.6661	9,934.6661	1.9498	0.0000	9,958.7930
2021	3.6456	31.3614	32.5429	0.0971	4.3453	1.0134	5.3587	1.1719	0.9527	2.1246	0.0000	9,789.7263	9,789.7263	0.9377	0.0000	9,813.1688
2022	164.8530	28.8183	31.1754	0.0955	4.3453	0.8596	5.2049	1.1719	0.8085	1.9804	0.0000	9,633.6269	9,633.6269	0.9161	0.0000	9,656.5293
Maximum	**164.8530**	**50.2630**	**34.2439**	**0.0985**	**18.2675**	**2.1991**	**20.4666**	**9.9840**	**2.0232**	**12.0072**	**0.0000**	**9,934.6661**	**9,934.6661**	**1.9498**	**0.0000**	**9,958.7930**

Burbank De Soto Operational Existing (All Phases) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.8233	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Energy	0.1284	1.1670	0.9803	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3887	1,400.3887	0.0268	0.0257	1,408.7105
Mobile	3.7821	21.2731	47.4253	0.2436	25.1846	0.1211	25.3056	6.7371	0.1125	6.8496		25,009.7245	25,009.7245	0.9639		25,033.8215
Total	**11.7338**	**22.4415**	**48.5615**	**0.2506**	**25.1846**	**0.2103**	**25.3949**	**6.7371**	**0.2017**	**6.9388**		**26,410.4494**	**26,410.4494**	**0.9916**	**0.0257**	**26,442.8899**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.8233	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Energy	0.1284	1.1670	0.9803	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3887	1,400.3887	0.0268	0.0257	1,408.7105
Mobile	3.7821	21.2731	47.4253	0.2436	25.1846	0.1211	25.3056	6.7371	0.1125	6.8496		25,009.7245	25,009.7245	0.9639		25,033.8215
Total	**11.7338**	**22.4415**	**48.5615**	**0.2506**	**25.1846**	**0.2103**	**25.3949**	**6.7371**	**0.2017**	**6.9388**		**26,410.4494**	**26,410.4494**	**0.9916**	**0.0257**	**26,442.8899**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/18/2020	9/14/2020	5	20	
2	Site Preparation	Site Preparation	9/15/2020	9/28/2020	5	10	
3	Grading	Grading	9/29/2020	11/16/2020	5	35	
4	Building Construction	Building Construction	11/17/2020	4/18/2022	5	370	
5	Paving	Paving	4/19/2022	5/16/2022	5	20	
6	Architectural Coating	Architectural Coating	5/17/2022	6/13/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 14.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 510,509; Non-Residential Outdoor: 170,170; Striped Parking Area: 28,704 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Operational Existing (All Phases) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	312.00	134.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4766	14.2539	3.7347	0.0348	0.8579	0.0671	0.9250	0.2470	0.0642	0.3112		3,712.1309	3,712.1309	0.2265		3,717.7941
Worker	1.4358	1.0215	13.6608	0.0369	3.4874	0.0292	3.5166	0.9249	0.0269	0.9517		3,669.4722	3,669.4722	0.1157		3,672.3644
Total	**1.9124**	**15.2754**	**17.3954**	**0.0716**	**4.3453**	**0.0962**	**4.4415**	**1.1719**	**0.0910**	**1.2629**		**7,381.6031**	**7,381.6031**	**0.3422**		**7,390.1585**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4766	14.2539	3.7347	0.0348	0.8579	0.0671	0.9250	0.2470	0.0642	0.3112		3,712.1309	3,712.1309	0.2265		3,717.7941
Worker	1.4358	1.0215	13.6608	0.0369	3.4874	0.0292	3.5166	0.9249	0.0269	0.9517		3,669.4722	3,669.4722	0.1157		3,672.3644
Total	**1.9124**	**15.2754**	**17.3954**	**0.0716**	**4.3453**	**0.0962**	**4.4415**	**1.1719**	**0.0910**	**1.2629**		**7,381.6031**	**7,381.6031**	**0.3422**		**7,390.1585**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4073	13.0100	3.4012	0.0345	0.8579	0.0266	0.8845	0.2470	0.0254	0.2724		3,683.4004	3,683.4004	0.2170		3,688.8254
Worker	1.3374	0.9193	12.5665	0.0357	3.4874	0.0282	3.5156	0.9249	0.0260	0.9508		3,552.9619	3,552.9619	0.1047		3,555.5791
Total	**1.7447**	**13.9293**	**15.9677**	**0.0701**	**4.3453**	**0.0548**	**4.4001**	**1.1719**	**0.0514**	**1.2233**		**7,236.3624**	**7,236.3624**	**0.3217**		**7,244.4046**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4073	13.0100	3.4012	0.0345	0.8579	0.0266	0.8845	0.2470	0.0254	0.2724		3,683.4004	3,683.4004	0.2170		3,688.8254
Worker	1.3374	0.9193	12.5665	0.0357	3.4874	0.0282	3.5156	0.9249	0.0260	0.9508		3,552.9619	3,552.9619	0.1047		3,555.5791
Total	**1.7447**	**13.9293**	**15.9677**	**0.0701**	**4.3453**	**0.0548**	**4.4001**	**1.1719**	**0.0514**	**1.2233**		**7,236.3624**	**7,236.3624**	**0.3217**		**7,244.4046**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3823	12.3723	3.2180	0.0341	0.8579	0.0233	0.8812	0.2470	0.0222	0.2693		3,651.3109	3,651.3109	0.2095		3,656.5493
Worker	1.2528	0.8304	11.5940	0.0344	3.4874	0.0273	3.5147	0.9249	0.0251	0.9500		3,427.9824	3,427.9824	0.0946		3,430.3478
Total	**1.6350**	**13.2026**	**14.8120**	**0.0685**	**4.3453**	**0.0506**	**4.3959**	**1.1719**	**0.0474**	**1.2193**		**7,079.2933**	**7,079.2933**	**0.3041**		**7,086.8971**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3823	12.3723	3.2180	0.0341	0.8579	0.0233	0.8812	0.2470	0.0222	0.2693		3,651.3109	3,651.3109	0.2095		3,656.5493
Worker	1.2528	0.8304	11.5940	0.0344	3.4874	0.0273	3.5147	0.9249	0.0251	0.9500		3,427.9824	3,427.9824	0.0946		3,430.3478
Total	**1.6350**	**13.2026**	**14.8120**	**0.0685**	**4.3453**	**0.0506**	**4.3959**	**1.1719**	**0.0474**	**1.2193**		**7,079.2933**	**7,079.2933**	**0.3041**		**7,086.8971**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8681					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9709**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8681					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9709**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	164.3995					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**164.6041**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2489	0.1650	2.3039	6.8400e-003	0.6930	5.4200e-003	0.6984	0.1838	5.0000e-003	0.1888		681.2016	681.2016	0.0188		681.6717
Total	**0.2489**	**0.1650**	**2.3039**	**6.8400e-003**	**0.6930**	**5.4200e-003**	**0.6984**	**0.1838**	**5.0000e-003**	**0.1888**		**681.2016**	**681.2016**	**0.0188**		**681.6717**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	164.3995					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**164.6041**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2489	0.1650	2.3039	6.8400e-003	0.6930	5.4200e-003	0.6984	0.1838	5.0000e-003	0.1888		681.2016	681.2016	0.0188		681.6717
Total	**0.2489**	**0.1650**	**2.3039**	**6.8400e-003**	**0.6930**	**5.4200e-003**	**0.6984**	**0.1838**	**5.0000e-003**	**0.1888**		**681.2016**	**681.2016**	**0.0188**		**681.6717**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7821	21.2731	47.4253	0.2436	25.1846	0.1211	25.3056	6.7371	0.1125	6.8496		25,009.7245	25,009.7245	0.9639		25,033.8215
Unmitigated	3.7821	21.2731	47.4253	0.2436	25.1846	0.1211	25.3056	6.7371	0.1125	6.8496		25,009.7245	25,009.7245	0.9639		25,033.8215

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	3,132.97	698.70	296.71	7,667,201	7,667,201
Health Club	584.32	370.39	474.52	1,150,813	1,150,813
High Turnover (Sit Down Restaurant)	296.01	368.70	306.93	419,690	419,690
Parking Lot	0.00	0.00	0.00		
Total	4,013.30	1,437.79	1,078.16	9,237,704	9,237,704

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Health Club	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
High Turnover (Sit Down Restaurant)	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Parking Lot	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1284	1.1670	0.9803	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3887	1,400.3887	0.0268	0.0257	1,408.7105
NaturalGas Unmitigated	0.1284	1.1670	0.9803	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3887	1,400.3887	0.0268	0.0257	1,408.7105

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	9099.17	0.0981	0.8921	0.7493	5.3500e-003		0.0678	0.0678		0.0678	0.0678		1,070.4903	1,070.4903	0.0205	0.0196	1,076.8516
Health Club	907.479	9.7900e-003	0.0890	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003		106.7623	106.7623	2.0500e-003	1.9600e-003	107.3967
High Turnover (Sit Down Restaurant)	1896.66	0.0205	0.1860	0.1562	1.1200e-003		0.0141	0.0141		0.0141	0.0141		223.1362	223.1362	4.2800e-003	4.0900e-003	224.4622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1284**	**1.1670**	**0.9803**	**7.0000e-003**		**0.0887**	**0.0887**		**0.0887**	**0.0887**		**1,400.3887**	**1,400.3887**	**0.0269**	**0.0257**	**1,408.7105**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	9.09917	0.0981	0.8921	0.7493	5.3500e-003		0.0678	0.0678		0.0678	0.0678		1,070.4903	1,070.4903	0.0205	0.0196	1,076.8516
Health Club	0.907479	9.7900e-003	0.0890	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003		106.7623	106.7623	2.0500e-003	1.9600e-003	107.3967
High Turnover (Sit Down Restaurant)	1.89666	0.0205	0.1860	0.1562	1.1200e-003		0.0141	0.0141		0.0141	0.0141		223.1362	223.1362	4.2800e-003	4.0900e-003	224.4622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1284**	**1.1670**	**0.9803**	**7.0000e-003**		**0.0887**	**0.0887**		**0.0887**	**0.0887**		**1,400.3887**	**1,400.3887**	**0.0269**	**0.0257**	**1,408.7105**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.8233	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Unmitigated	7.8233	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0143	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Total	**7.8233**	**1.4000e-003**	**0.1560**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**		**0.3362**	**0.3362**	**8.7000e-004**		**0.3579**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0143	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Total	**7.8233**	**1.4000e-003**	**0.1560**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**		**0.3362**	**0.3362**	**8.7000e-004**		**0.3579**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Operational Existing (All Phases)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	319.04	1000sqft	9.50	319,039.00	0
Parking Lot	1,196.00	Space	14.26	478,400.00	0
Health Club	18.30	1000sqft	0.55	18,300.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.09	3,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with IS/MND's model.

Vehicle Trips - Consistent with IS/MND's model.

Waste Mitigation - Consistent with IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	319,040.00	319,039.00
tblLandUse	LotAcreage	7.32	9.50
tblLandUse	LotAcreage	10.76	14.26
tblLandUse	LotAcreage	0.42	0.55
tblLandUse	LotAcreage	0.07	0.09
tblVehicleTrips	ST_TR	2.46	2.19
tblVehicleTrips	ST_TR	20.87	20.24
tblVehicleTrips	ST_TR	158.37	122.90
tblVehicleTrips	SU_TR	1.05	0.93
tblVehicleTrips	SU_TR	26.73	25.93
tblVehicleTrips	SU_TR	131.84	102.31
tblVehicleTrips	WD_TR	11.03	9.82
tblVehicleTrips	WD_TR	32.93	31.93
tblVehicleTrips	WD_TR	127.15	98.67

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5523	50.2700	33.4790	0.0954	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	9,618.8321	9,618.8321	1.9494	0.0000	9,643.1621
2021	3.8162	31.4328	31.8271	0.0940	4.3453	1.0143	5.3596	1.1719	0.9535	2.1254	0.0000	9,481.2173	9,481.2173	0.9457	0.0000	9,504.8605
2022	164.8817	28.8732	30.5070	0.0925	4.3453	0.8603	5.2057	1.1719	0.8093	1.9812	0.0000	9,332.7920	9,332.7920	0.9240	0.0000	9,355.8913
Maximum	**164.8817**	**50.2700**	**33.4790**	**0.0954**	**18.2675**	**2.1991**	**20.4666**	**9.9840**	**2.0232**	**12.0072**	**0.0000**	**9,618.8321**	**9,618.8321**	**1.9494**	**0.0000**	**9,643.1621**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5523	50.2700	33.4790	0.0954	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	9,618.8321	9,618.8321	1.9494	0.0000	9,643.1621
2021	3.8162	31.4328	31.8271	0.0940	4.3453	1.0143	5.3596	1.1719	0.9535	2.1254	0.0000	9,481.2173	9,481.2173	0.9457	0.0000	9,504.8605
2022	164.8817	28.8732	30.5070	0.0925	4.3453	0.8603	5.2057	1.1719	0.8093	1.9812	0.0000	9,332.7920	9,332.7920	0.9240	0.0000	9,355.8913
Maximum	**164.8817**	**50.2700**	**33.4790**	**0.0954**	**18.2675**	**2.1991**	**20.4666**	**9.9840**	**2.0232**	**12.0072**	**0.0000**	**9,618.8321**	**9,618.8321**	**1.9494**	**0.0000**	**9,643.1621**

Burbank De Soto Operational Existing (All Phases) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.8233	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Energy	0.1284	1.1670	0.9803	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3887	1,400.3887	0.0268	0.0257	1,408.7105
Mobile	3.6716	21.4504	45.2925	0.2322	25.1846	0.1214	25.3059	6.7371	0.1128	6.8499		23,860.4269	23,860.4269	0.9737		23,884.7681
Total	**11.6232**	**22.6188**	**46.4288**	**0.2392**	**25.1846**	**0.2106**	**25.3952**	**6.7371**	**0.2020**	**6.9391**		**25,261.1518**	**25,261.1518**	**1.0014**	**0.0257**	**25,293.8365**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.8233	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Energy	0.1284	1.1670	0.9803	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3887	1,400.3887	0.0268	0.0257	1,408.7105
Mobile	3.6716	21.4504	45.2925	0.2322	25.1846	0.1214	25.3059	6.7371	0.1128	6.8499		23,860.4269	23,860.4269	0.9737		23,884.7681
Total	**11.6232**	**22.6188**	**46.4288**	**0.2392**	**25.1846**	**0.2106**	**25.3952**	**6.7371**	**0.2020**	**6.9391**		**25,261.1518**	**25,261.1518**	**1.0014**	**0.0257**	**25,293.8365**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/18/2020	9/14/2020	5	20	
2	Site Preparation	Site Preparation	9/15/2020	9/28/2020	5	10	
3	Grading	Grading	9/29/2020	11/16/2020	5	35	
4	Building Construction	Building Construction	11/17/2020	4/18/2022	5	370	
5	Paving	Paving	4/19/2022	5/16/2022	5	20	
6	Architectural Coating	Architectural Coating	5/17/2022	6/13/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 14.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 510,509; Non-Residential Outdoor: 170,170; Striped Parking Area: 28,704 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Operational Existing (All Phases) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Burbank De Soto Operational Existing (All Phases) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	312.00	134.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4982	14.2510	4.1190	0.0338	0.8579	0.0682	0.9260	0.2470	0.0652	0.3122		3,610.6175	3,610.6175	0.2414		3,616.6534
Worker	1.5944	1.1309	12.5115	0.0347	3.4874	0.0292	3.5166	0.9249	0.0269	0.9517		3,455.1516	3,455.1516	0.1089		3,457.8742
Total	**2.0926**	**15.3819**	**16.6305**	**0.0685**	**4.3453**	**0.0973**	**4.4426**	**1.1719**	**0.0921**	**1.2639**		**7,065.7691**	**7,065.7691**	**0.3503**		**7,074.5276**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4982	14.2510	4.1190	0.0338	0.8579	0.0682	0.9260	0.2470	0.0652	0.3122		3,610.6175	3,610.6175	0.2414		3,616.6534
Worker	1.5944	1.1309	12.5115	0.0347	3.4874	0.0292	3.5166	0.9249	0.0269	0.9517		3,455.1516	3,455.1516	0.1089		3,457.8742
Total	**2.0926**	**15.3819**	**16.6305**	**0.0685**	**4.3453**	**0.0973**	**4.4426**	**1.1719**	**0.0921**	**1.2639**		**7,065.7691**	**7,065.7691**	**0.3503**		**7,074.5276**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4276	12.9831	3.7623	0.0335	0.8579	0.0275	0.8853	0.2470	0.0263	0.2733		3,582.4300	3,582.4300	0.2313		3,588.2118
Worker	1.4877	1.0176	11.4896	0.0336	3.4874	0.0282	3.5156	0.9249	0.0260	0.9508		3,345.4234	3,345.4234	0.0984		3,347.8845
Total	**1.9153**	**14.0007**	**15.2519**	**0.0671**	**4.3453**	**0.0556**	**4.4009**	**1.1719**	**0.0522**	**1.2241**		**6,927.8534**	**6,927.8534**	**0.3297**		**6,936.0963**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4276	12.9831	3.7623	0.0335	0.8579	0.0275	0.8853	0.2470	0.0263	0.2733		3,582.4300	3,582.4300	0.2313		3,588.2118
Worker	1.4877	1.0176	11.4896	0.0336	3.4874	0.0282	3.5156	0.9249	0.0260	0.9508		3,345.4234	3,345.4234	0.0984		3,347.8845
Total	**1.9153**	**14.0007**	**15.2519**	**0.0671**	**4.3453**	**0.0556**	**4.4009**	**1.1719**	**0.0522**	**1.2241**		**6,927.8534**	**6,927.8534**	**0.3297**		**6,936.0963**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4014	12.3386	3.5613	0.0332	0.8579	0.0240	0.8819	0.2470	0.0230	0.2700		3,550.6018	3,550.6018	0.2232		3,556.1804
Worker	1.3973	0.9190	10.5823	0.0324	3.4874	0.0273	3.5147	0.9249	0.0251	0.9500		3,227.8567	3,227.8567	0.0889		3,230.0787
Total	**1.7987**	**13.2576**	**14.1436**	**0.0656**	**4.3453**	**0.0513**	**4.3967**	**1.1719**	**0.0481**	**1.2200**		**6,778.4585**	**6,778.4585**	**0.3120**		**6,786.2590**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4014	12.3386	3.5613	0.0332	0.8579	0.0240	0.8819	0.2470	0.0230	0.2700		3,550.6018	3,550.6018	0.2232		3,556.1804
Worker	1.3973	0.9190	10.5823	0.0324	3.4874	0.0273	3.5147	0.9249	0.0251	0.9500		3,227.8567	3,227.8567	0.0889		3,230.0787
Total	**1.7987**	**13.2576**	**14.1436**	**0.0656**	**4.3453**	**0.0513**	**4.3967**	**1.1719**	**0.0481**	**1.2200**		**6,778.4585**	**6,778.4585**	**0.3120**		**6,786.2590**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8681					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9709**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.0672**	**0.0442**	**0.5088**	**1.5600e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**155.1854**	**155.1854**	**4.2700e-003**		**155.2922**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8681					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9709**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.0672**	**0.0442**	**0.5088**	**1.5600e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**155.1854**	**155.1854**	**4.2700e-003**		**155.2922**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	164.3995					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**164.6041**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2777	0.1826	2.1029	6.4400e-003	0.6930	5.4200e-003	0.6984	0.1838	5.0000e-003	0.1888		641.4331	641.4331	0.0177		641.8746
Total	**0.2777**	**0.1826**	**2.1029**	**6.4400e-003**	**0.6930**	**5.4200e-003**	**0.6984**	**0.1838**	**5.0000e-003**	**0.1888**		**641.4331**	**641.4331**	**0.0177**		**641.8746**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	164.3995					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**164.6041**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2777	0.1826	2.1029	6.4400e-003	0.6930	5.4200e-003	0.6984	0.1838	5.0000e-003	0.1888		641.4331	641.4331	0.0177		641.8746
Total	**0.2777**	**0.1826**	**2.1029**	**6.4400e-003**	**0.6930**	**5.4200e-003**	**0.6984**	**0.1838**	**5.0000e-003**	**0.1888**		**641.4331**	**641.4331**	**0.0177**		**641.8746**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.6716	21.4504	45.2925	0.2322	25.1846	0.1214	25.3059	6.7371	0.1128	6.8499		23,860.4269	23,860.4269	0.9737		23,884.7681
Unmitigated	3.6716	21.4504	45.2925	0.2322	25.1846	0.1214	25.3059	6.7371	0.1128	6.8499		23,860.4269	23,860.4269	0.9737		23,884.7681

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	3,132.97	698.70	296.71	7,667,201	7,667,201
Health Club	584.32	370.39	474.52	1,150,813	1,150,813
High Turnover (Sit Down Restaurant)	296.01	368.70	306.93	419,690	419,690
Parking Lot	0.00	0.00	0.00		
Total	4,013.30	1,437.79	1,078.16	9,237,704	9,237,704

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Health Club	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
High Turnover (Sit Down Restaurant)	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Parking Lot	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1284	1.1670	0.9803	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3887	1,400.3887	0.0268	0.0257	1,408.7105
NaturalGas Unmitigated	0.1284	1.1670	0.9803	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3887	1,400.3887	0.0268	0.0257	1,408.7105

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	9099.17	0.0981	0.8921	0.7493	5.3500e-003		0.0678	0.0678		0.0678	0.0678		1,070.4903	1,070.4903	0.0205	0.0196	1,076.8516
Health Club	907.479	9.7900e-003	0.0890	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003		106.7623	106.7623	2.0500e-003	1.9600e-003	107.3967
High Turnover (Sit Down Restaurant)	1896.66	0.0205	0.1860	0.1562	1.1200e-003		0.0141	0.0141		0.0141	0.0141		223.1362	223.1362	4.2800e-003	4.0900e-003	224.4622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1284**	**1.1670**	**0.9803**	**7.0000e-003**		**0.0887**	**0.0887**		**0.0887**	**0.0887**		**1,400.3887**	**1,400.3887**	**0.0269**	**0.0257**	**1,408.7105**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	9.09917	0.0981	0.8921	0.7493	5.3500e-003		0.0678	0.0678		0.0678	0.0678		1,070.4903	1,070.4903	0.0205	0.0196	1,076.8516
Health Club	0.907479	9.7900e-003	0.0890	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003		106.7623	106.7623	2.0500e-003	1.9600e-003	107.3967
High Turnover (Sit Down Restaurant)	1.89666	0.0205	0.1860	0.1562	1.1200e-003		0.0141	0.0141		0.0141	0.0141		223.1362	223.1362	4.2800e-003	4.0900e-003	224.4622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1284**	**1.1670**	**0.9803**	**7.0000e-003**		**0.0887**	**0.0887**		**0.0887**	**0.0887**		**1,400.3887**	**1,400.3887**	**0.0269**	**0.0257**	**1,408.7105**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.8233	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Unmitigated	7.8233	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0143	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Total	**7.8233**	**1.4000e-003**	**0.1560**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**		**0.3362**	**0.3362**	**8.7000e-004**		**0.3579**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0143	1.4000e-003	0.1560	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		0.3362	0.3362	8.7000e-004		0.3579
Total	**7.8233**	**1.4000e-003**	**0.1560**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**		**0.3362**	**0.3362**	**8.7000e-004**		**0.3579**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase Operational New (All Phases)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,211.61	1000sqft	6.05	1,211,607.00	0
Enclosed Parking with Elevator	5,506.00	Space	49.55	2,202,400.00	0
Parking Lot	45.00	Space	0.41	18,000.00	0
High Turnover (Sit Down Restaurant)	41.63	1000sqft	0.21	41,631.00	0
Hotel	228.00	Room	0.79	157,535.00	0
Apartments Mid Rise	1,009.00	Dwelling Unit	5.98	1,175,513.00	2886
Strip Mall	44.54	1000sqft	0.22	44,543.00	0
Health Club	4.07	1000sqft	0.01	4,068.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types and sizes.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading -

Trips and VMT -

Architectural Coating -

Water Mitigation - See SWAPE comment about operational mitigation measures.

Waste Mitigation - See SWAPE comment about operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	1,211,610.00	1,211,607.00
tblLandUse	LandUseSquareFeet	41,630.00	41,631.00
tblLandUse	LandUseSquareFeet	331,056.00	157,535.00
tblLandUse	LandUseSquareFeet	1,009,000.00	1,175,513.00
tblLandUse	LandUseSquareFeet	44,540.00	44,543.00
tblLandUse	LandUseSquareFeet	4,070.00	4,068.00
tblLandUse	LotAcreage	27.81	6.05
tblLandUse	LotAcreage	0.96	0.21
tblLandUse	LotAcreage	7.60	0.79
tblLandUse	LotAcreage	26.55	5.98
tblLandUse	LotAcreage	1.02	0.22
tblLandUse	LotAcreage	0.09	0.01

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1766	1.7588	1.0945	1.9800e-003	0.2614	0.0889	0.3503	0.1413	0.0823	0.2236	0.0000	173.7340	173.7340	0.0490	0.0000	174.9584
2021	1.1863	9.3868	9.9852	0.0345	2.5443	0.2116	2.7559	0.7848	0.1964	0.9812	0.0000	3,185.7085	3,185.7085	0.2607	0.0000	3,192.2268
2022	1.6168	11.5405	14.1878	0.0562	3.6393	0.1459	3.7851	0.9800	0.1370	1.1170	0.0000	5,221.5002	5,221.5002	0.2804	0.0000	5,228.5093
2023	1.4629	9.1812	13.1497	0.0544	3.6393	0.1223	3.7616	0.9800	0.1147	1.0947	0.0000	5,053.4963	5,053.4963	0.2569	0.0000	5,059.9190
2024	1.3997	9.0360	12.5566	0.0538	3.6673	0.1115	3.7788	0.9876	0.1045	1.0921	0.0000	5,003.5186	5,003.5186	0.2511	0.0000	5,009.7972
2025	0.9957	6.6525	9.1166	0.0388	2.6514	0.0870	2.7384	0.7140	0.0813	0.7952	0.0000	3,607.5921	3,607.5921	0.1992	0.0000	3,612.5711
2026	10.8111	0.0897	0.5066	1.6200e-003	0.1765	3.8400e-003	0.1804	0.0469	3.6800e-003	0.0506	0.0000	145.7278	145.7278	4.4100e-003	0.0000	145.8381
Maximum	**10.8111**	**11.5405**	**14.1878**	**0.0562**	**3.6673**	**0.2116**	**3.7851**	**0.9876**	**0.1964**	**1.1170**	**0.0000**	**5,221.5002**	**5,221.5002**	**0.2804**	**0.0000**	**5,228.5093**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1766	1.7588	1.0945	1.9800e-003	0.2614	0.0889	0.3503	0.1413	0.0823	0.2236	0.0000	173.7338	173.7338	0.0490	0.0000	174.9582
2021	1.1863	9.3868	9.9852	0.0345	2.5443	0.2116	2.7559	0.7848	0.1964	0.9812	0.0000	3,185.7079	3,185.7079	0.2607	0.0000	3,192.2262
2022	1.6168	11.5405	14.1878	0.0562	3.6393	0.1459	3.7851	0.9800	0.1370	1.1170	0.0000	5,221.4998	5,221.4998	0.2804	0.0000	5,228.5090
2023	1.4629	9.1812	13.1497	0.0544	3.6393	0.1223	3.7616	0.9800	0.1147	1.0947	0.0000	5,053.4959	5,053.4959	0.2569	0.0000	5,059.9186
2024	1.3997	9.0360	12.5566	0.0538	3.6673	0.1115	3.7788	0.9876	0.1045	1.0921	0.0000	5,003.5183	5,003.5183	0.2511	0.0000	5,009.7968
2025	0.9957	6.6525	9.1166	0.0388	2.6514	0.0870	2.7384	0.7140	0.0813	0.7952	0.0000	3,607.5917	3,607.5917	0.1992	0.0000	3,612.5708
2026	10.8111	0.0897	0.5066	1.6200e-003	0.1765	3.8400e-003	0.1804	0.0469	3.6800e-003	0.0506	0.0000	145.7278	145.7278	4.4100e-003	0.0000	145.8381
Maximum	**10.8111**	**11.5405**	**14.1878**	**0.0562**	**3.6673**	**0.2116**	**3.7851**	**0.9876**	**0.1964**	**1.1170**	**0.0000**	**5,221.4998**	**5,221.4998**	**0.2804**	**0.0000**	**5,228.5090**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**8-18-2020**	**11-17-2020**	1.2038	1.2038
2	**11-18-2020**	**2-17-2021**	1.5417	1.5417
3	**2-18-2021**	**5-17-2021**	1.6129	1.6129
4	**5-18-2021**	**8-17-2021**	2.7930	2.7930

5	**8-18-2021**	**11-17-2021**	3.5131	3.5131
6	**11-18-2021**	**2-17-2022**	3.4216	3.4216
7	**2-18-2022**	**5-17-2022**	3.1800	3.1800
8	**5-18-2022**	**8-17-2022**	3.2635	3.2635
9	**8-18-2022**	**11-17-2022**	3.2897	3.2897
10	**11-18-2022**	**2-17-2023**	2.9887	2.9887
11	**2-18-2023**	**5-17-2023**	2.5802	2.5802
12	**5-18-2023**	**8-17-2023**	2.6460	2.6460
13	**8-18-2023**	**11-17-2023**	2.6694	2.6694
14	**11-18-2023**	**2-17-2024**	2.6527	2.6527
15	**2-18-2024**	**5-17-2024**	2.5390	2.5390
16	**5-18-2024**	**8-17-2024**	2.5751	2.5751
17	**8-18-2024**	**11-17-2024**	2.5973	2.5973
18	**11-18-2024**	**2-17-2025**	2.5768	2.5768
19	**2-18-2025**	**5-17-2025**	2.4357	2.4357
20	**5-18-2025**	**8-17-2025**	2.4987	2.4987
21	**8-18-2025**	**11-17-2025**	1.1698	1.1698
22	**11-18-2025**	**2-17-2026**	4.6285	4.6285
23	**2-18-2026**	**5-17-2026**	6.4294	6.4294
		Highest	6.4294	6.4294

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	14.3630	0.3821	16.8729	0.0169		1.0215	1.0215		1.0215	1.0215	107.1750	223.1265	330.3015	0.3363	7.2700e-003	340.8755
Energy	0.2007	1.7920	1.2937	0.0110		0.1387	0.1387		0.1387	0.1387	0.0000	22,270.4815	22,270.4815	0.5171	0.1355	22,323.7985
Mobile	4.0180	24.5571	50.2526	0.2567	26.7929	0.1323	26.9251	7.1790	0.1229	7.3019	0.0000	23,934.2641	23,934.2641	0.9609	0.0000	23,958.2871
Waste						0.0000	0.0000		0.0000	0.0000	463.0508	0.0000	463.0508	27.3655	0.0000	1,147.1888
Water						0.0000	0.0000		0.0000	0.0000	96.1419	3,293.2853	3,389.4272	9.9525	0.2493	3,712.5172
Total	**18.5816**	**26.7312**	**68.4192**	**0.2846**	**26.7929**	**1.2924**	**28.0853**	**7.1790**	**1.2830**	**8.4620**	**666.3677**	**49,721.1574**	**50,387.5251**	**39.1323**	**0.3921**	**51,482.6671**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	14.3630	0.3821	16.8729	0.0169		1.0215	1.0215		1.0215	1.0215	107.1750	223.1265	330.3015	0.3363	7.2700e-003	340.8755
Energy	0.2007	1.7920	1.2937	0.0110		0.1387	0.1387		0.1387	0.1387	0.0000	22,270.4815	22,270.4815	0.5171	0.1355	22,323.7985
Mobile	4.0180	24.5571	50.2526	0.2567	26.7929	0.1323	26.9251	7.1790	0.1229	7.3019	0.0000	23,934.2641	23,934.2641	0.9609	0.0000	23,958.2871
Waste						0.0000	0.0000		0.0000	0.0000	463.0508	0.0000	463.0508	27.3655	0.0000	1,147.1888
Water						0.0000	0.0000		0.0000	0.0000	96.1419	3,293.2853	3,389.4272	9.9525	0.2493	3,712.5172
Total	**18.5816**	**26.7312**	**68.4192**	**0.2846**	**26.7929**	**1.2924**	**28.0853**	**7.1790**	**1.2830**	**8.4620**	**666.3677**	**49,721.1574**	**50,387.5251**	**39.1323**	**0.3921**	**51,482.6671**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Burbank De Soto Phase Operational New (All Phases) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/18/2020	11/23/2020	5	70	
2	Site Preparation	Site Preparation	11/24/2020	1/18/2021	5	40	
3	Grading	Grading	1/19/2021	6/21/2021	5	110	
4	Building Construction	Building Construction	6/22/2021	9/22/2025	5	1110	
5	Paving	Paving	9/23/2025	1/5/2026	5	75	
6	Architectural Coating	Architectural Coating	1/6/2026	4/20/2026	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 49.96

Residential Indoor: 2,380,414; Residential Outdoor: 793,471; Non-Residential Indoor: 2,189,076; Non-Residential Outdoor: 729,692; Striped Parking Area: 133,224 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase Operational New (All Phases) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,146.00	711.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	429.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1159	1.1620	0.7614	1.3600e-003		0.0581	0.0581		0.0540	0.0540	0.0000	118.9951	118.9951	0.0336	0.0000	119.8349
Total	**0.1159**	**1.1620**	**0.7614**	**1.3600e-003**		**0.0581**	**0.0581**		**0.0540**	**0.0540**	**0.0000**	**118.9951**	**118.9951**	**0.0336**	**0.0000**	**119.8349**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4200e-003	1.9500e-003	0.0216	6.0000e-005	5.7500e-003	5.0000e-005	5.8000e-003	1.5300e-003	5.0000e-005	1.5700e-003	0.0000	5.3621	5.3621	1.7000e-004	0.0000	5.3663
Total	**2.4200e-003**	**1.9500e-003**	**0.0216**	**6.0000e-005**	**5.7500e-003**	**5.0000e-005**	**5.8000e-003**	**1.5300e-003**	**5.0000e-005**	**1.5700e-003**	**0.0000**	**5.3621**	**5.3621**	**1.7000e-004**	**0.0000**	**5.3663**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1159	1.1620	0.7614	1.3600e-003		0.0581	0.0581		0.0540	0.0540	0.0000	118.9950	118.9950	0.0336	0.0000	119.8348
Total	**0.1159**	**1.1620**	**0.7614**	**1.3600e-003**		**0.0581**	**0.0581**		**0.0540**	**0.0540**	**0.0000**	**118.9950**	**118.9950**	**0.0336**	**0.0000**	**119.8348**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4200e-003	1.9500e-003	0.0216	6.0000e-005	5.7500e-003	5.0000e-005	5.8000e-003	1.5300e-003	5.0000e-005	1.5700e-003	0.0000	5.3621	5.3621	1.7000e-004	0.0000	5.3663
Total	**2.4200e-003**	**1.9500e-003**	**0.0216**	**6.0000e-005**	**5.7500e-003**	**5.0000e-005**	**5.8000e-003**	**1.5300e-003**	**5.0000e-005**	**1.5700e-003**	**0.0000**	**5.3621**	**5.3621**	**1.7000e-004**	**0.0000**	**5.3663**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2529	0.0000	0.2529	0.1390	0.0000	0.1390	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0571	0.5938	0.3012	5.3000e-004		0.0308	0.0308		0.0283	0.0283	0.0000	46.8030	46.8030	0.0151	0.0000	47.1814
Total	**0.0571**	**0.5938**	**0.3012**	**5.3000e-004**	**0.2529**	**0.0308**	**0.2837**	**0.1390**	**0.0283**	**0.1673**	**0.0000**	**46.8030**	**46.8030**	**0.0151**	**0.0000**	**47.1814**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	9.4000e-004	0.0104	3.0000e-005	2.7600e-003	2.0000e-005	2.7800e-003	7.3000e-004	2.0000e-005	7.6000e-004	0.0000	2.5738	2.5738	8.0000e-005	0.0000	2.5758
Total	**1.1600e-003**	**9.4000e-004**	**0.0104**	**3.0000e-005**	**2.7600e-003**	**2.0000e-005**	**2.7800e-003**	**7.3000e-004**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**2.5738**	**2.5738**	**8.0000e-005**	**0.0000**	**2.5758**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2529	0.0000	0.2529	0.1390	0.0000	0.1390	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0571	0.5938	0.3012	5.3000e-004		0.0308	0.0308		0.0283	0.0283	0.0000	46.8029	46.8029	0.0151	0.0000	47.1813
Total	**0.0571**	**0.5938**	**0.3012**	**5.3000e-004**	**0.2529**	**0.0308**	**0.2837**	**0.1390**	**0.0283**	**0.1673**	**0.0000**	**46.8029**	**46.8029**	**0.0151**	**0.0000**	**47.1813**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	9.4000e-004	0.0104	3.0000e-005	2.7600e-003	2.0000e-005	2.7800e-003	7.3000e-004	2.0000e-005	7.6000e-004	0.0000	2.5738	2.5738	8.0000e-005	0.0000	2.5758
Total	**1.1600e-003**	**9.4000e-004**	**0.0104**	**3.0000e-005**	**2.7600e-003**	**2.0000e-005**	**2.7800e-003**	**7.3000e-004**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**2.5738**	**2.5738**	**8.0000e-005**	**0.0000**	**2.5758**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1084	0.0000	0.1084	0.0596	0.0000	0.0596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0233	0.2430	0.1269	2.3000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	20.0614	20.0614	6.4900e-003	0.0000	20.2236
Total	**0.0233**	**0.2430**	**0.1269**	**2.3000e-004**	**0.1084**	**0.0123**	**0.1207**	**0.0596**	**0.0113**	**0.0709**	**0.0000**	**20.0614**	**20.0614**	**6.4900e-003**	**0.0000**	**20.2236**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.6000e-004	4.0800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0680	1.0680	3.0000e-005	0.0000	1.0688
Total	**4.6000e-004**	**3.6000e-004**	**4.0800e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1900e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0680**	**1.0680**	**3.0000e-005**	**0.0000**	**1.0688**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1084	0.0000	0.1084	0.0596	0.0000	0.0596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0233	0.2430	0.1269	2.3000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	20.0614	20.0614	6.4900e-003	0.0000	20.2236
Total	**0.0233**	**0.2430**	**0.1269**	**2.3000e-004**	**0.1084**	**0.0123**	**0.1207**	**0.0596**	**0.0113**	**0.0709**	**0.0000**	**20.0614**	**20.0614**	**6.4900e-003**	**0.0000**	**20.2236**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.6000e-004	4.0800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0680	1.0680	3.0000e-005	0.0000	1.0688
Total	**4.6000e-004**	**3.6000e-004**	**4.0800e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1900e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0680**	**1.0680**	**3.0000e-005**	**0.0000**	**1.0688**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4770	0.0000	0.4770	0.1978	0.0000	0.1978	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2305	2.5520	1.6983	3.4100e-003		0.1092	0.1092		0.1005	0.1005	0.0000	299.7224	299.7224	0.0969	0.0000	302.1458
Total	**0.2305**	**2.5520**	**1.6983**	**3.4100e-003**	**0.4770**	**0.1092**	**0.5862**	**0.1978**	**0.1005**	**0.2983**	**0.0000**	**299.7224**	**299.7224**	**0.0969**	**0.0000**	**302.1458**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7300e-003	3.6800e-003	0.0416	1.2000e-004	0.0121	1.0000e-004	0.0122	3.2000e-003	9.0000e-005	3.2900e-003	0.0000	10.8781	10.8781	3.2000e-004	0.0000	10.8861
Total	**4.7300e-003**	**3.6800e-003**	**0.0416**	**1.2000e-004**	**0.0121**	**1.0000e-004**	**0.0122**	**3.2000e-003**	**9.0000e-005**	**3.2900e-003**	**0.0000**	**10.8781**	**10.8781**	**3.2000e-004**	**0.0000**	**10.8861**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4770	0.0000	0.4770	0.1978	0.0000	0.1978	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2305	2.5520	1.6983	3.4100e-003		0.1092	0.1092		0.1005	0.1005	0.0000	299.7220	299.7220	0.0969	0.0000	302.1455
Total	**0.2305**	**2.5520**	**1.6983**	**3.4100e-003**	**0.4770**	**0.1092**	**0.5862**	**0.1978**	**0.1005**	**0.2983**	**0.0000**	**299.7220**	**299.7220**	**0.0969**	**0.0000**	**302.1455**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7300e-003	3.6800e-003	0.0416	1.2000e-004	0.0121	1.0000e-004	0.0122	3.2000e-003	9.0000e-005	3.2900e-003	0.0000	10.8781	10.8781	3.2000e-004	0.0000	10.8861
Total	**4.7300e-003**	**3.6800e-003**	**0.0416**	**1.2000e-004**	**0.0121**	**1.0000e-004**	**0.0122**	**3.2000e-003**	**9.0000e-005**	**3.2900e-003**	**0.0000**	**10.8781**	**10.8781**	**3.2000e-004**	**0.0000**	**10.8861**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1321	1.2115	1.1520	1.8700e-003		0.0666	0.0666		0.0626	0.0626	0.0000	160.9879	160.9879	0.0388	0.0000	161.9589
Total	**0.1321**	**1.2115**	**1.1520**	**1.8700e-003**		**0.0666**	**0.0666**		**0.0626**	**0.0626**	**0.0000**	**160.9879**	**160.9879**	**0.0388**	**0.0000**	**161.9589**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1534	4.8767	1.3222	0.0126	0.3113	9.9400e-003	0.3212	0.0898	9.5100e-003	0.0993	0.0000	1,218.0505	1,218.0505	0.0747	0.0000	1,219.9184
Worker	0.6417	0.4996	5.6401	0.0163	1.6344	0.0135	1.6478	0.4341	0.0124	0.4465	0.0000	1,474.9401	1,474.9401	0.0434	0.0000	1,476.0252
Total	**0.7952**	**5.3763**	**6.9623**	**0.0289**	**1.9456**	**0.0234**	**1.9690**	**0.5239**	**0.0219**	**0.5458**	**0.0000**	**2,692.9906**	**2,692.9906**	**0.1181**	**0.0000**	**2,695.9435**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1321	1.2115	1.1520	1.8700e-003		0.0666	0.0666		0.0626	0.0626	0.0000	160.9877	160.9877	0.0388	0.0000	161.9587
Total	**0.1321**	**1.2115**	**1.1520**	**1.8700e-003**		**0.0666**	**0.0666**		**0.0626**	**0.0626**	**0.0000**	**160.9877**	**160.9877**	**0.0388**	**0.0000**	**161.9587**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1534	4.8767	1.3222	0.0126	0.3113	9.9400e-003	0.3212	0.0898	9.5100e-003	0.0993	0.0000	1,218.0505	1,218.0505	0.0747	0.0000	1,219.9184
Worker	0.6417	0.4996	5.6401	0.0163	1.6344	0.0135	1.6478	0.4341	0.0124	0.4465	0.0000	1,474.9401	1,474.9401	0.0434	0.0000	1,476.0252
Total	**0.7952**	**5.3763**	**6.9623**	**0.0289**	**1.9456**	**0.0234**	**1.9690**	**0.5239**	**0.0219**	**0.5458**	**0.0000**	**2,692.9906**	**2,692.9906**	**0.1181**	**0.0000**	**2,695.9435**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2428**	**301.2428**	**0.0722**	**0.0000**	**303.0471**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2694	8.6664	2.3400	0.0233	0.5822	0.0163	0.5985	0.1680	0.0156	0.1836	0.0000	2,258.3563	2,258.3563	0.1349	0.0000	2,261.7286
Worker	1.1256	0.8441	9.7205	0.0294	3.0571	0.0244	3.0815	0.8120	0.0225	0.8344	0.0000	2,661.9010	2,661.9010	0.0733	0.0000	2,663.7337
Total	**1.3950**	**9.5105**	**12.0605**	**0.0527**	**3.6393**	**0.0407**	**3.6800**	**0.9800**	**0.0380**	**1.0180**	**0.0000**	**4,920.2574**	**4,920.2574**	**0.2082**	**0.0000**	**4,925.4623**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2425**	**301.2425**	**0.0722**	**0.0000**	**303.0467**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2694	8.6664	2.3400	0.0233	0.5822	0.0163	0.5985	0.1680	0.0156	0.1836	0.0000	2,258.3563	2,258.3563	0.1349	0.0000	2,261.7286
Worker	1.1256	0.8441	9.7205	0.0294	3.0571	0.0244	3.0815	0.8120	0.0225	0.8344	0.0000	2,661.9010	2,661.9010	0.0733	0.0000	2,663.7337
Total	**1.3950**	**9.5105**	**12.0605**	**0.0527**	**3.6393**	**0.0407**	**3.6800**	**0.9800**	**0.0380**	**1.0180**	**0.0000**	**4,920.2574**	**4,920.2574**	**0.2082**	**0.0000**	**4,925.4623**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3462**	**301.3462**	**0.0717**	**0.0000**	**303.1383**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2000	6.5477	2.0994	0.0225	0.5823	7.6400e-003	0.5899	0.1681	7.3000e-003	0.1754	0.0000	2,187.6558	2,187.6558	0.1192	0.0000	2,190.6358
Worker	1.0584	0.7636	8.9386	0.0284	3.0571	0.0237	3.0808	0.8120	0.0218	0.8338	0.0000	2,564.4943	2,564.4943	0.0660	0.0000	2,566.1448
Total	**1.2584**	**7.3112**	**11.0380**	**0.0509**	**3.6393**	**0.0314**	**3.6707**	**0.9800**	**0.0291**	**1.0092**	**0.0000**	**4,752.1501**	**4,752.1501**	**0.1852**	**0.0000**	**4,756.7807**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3458**	**301.3458**	**0.0717**	**0.0000**	**303.1380**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2000	6.5477	2.0994	0.0225	0.5823	7.6400e-003	0.5899	0.1681	7.3000e-003	0.1754	0.0000	2,187.6558	2,187.6558	0.1192	0.0000	2,190.6358
Worker	1.0584	0.7636	8.9386	0.0284	3.0571	0.0237	3.0808	0.8120	0.0218	0.8338	0.0000	2,564.4943	2,564.4943	0.0660	0.0000	2,566.1448
Total	**1.2584**	**7.3112**	**11.0380**	**0.0509**	**3.6393**	**0.0314**	**3.6707**	**0.9800**	**0.0291**	**1.0092**	**0.0000**	**4,752.1501**	**4,752.1501**	**0.1852**	**0.0000**	**4,756.7807**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7223**	**303.7223**	**0.0718**	**0.0000**	**305.5179**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1967	6.5733	2.0506	0.0226	0.5867	7.5900e-003	0.5943	0.1693	7.2500e-003	0.1766	0.0000	2,195.7015	2,195.7015	0.1184	0.0000	2,198.6602
Worker	1.0102	0.7016	8.3881	0.0277	3.0806	0.0236	3.1041	0.8182	0.0217	0.8399	0.0000	2,504.0948	2,504.0948	0.0610	0.0000	2,505.6191
Total	**1.2069**	**7.2749**	**10.4387**	**0.0503**	**3.6673**	**0.0311**	**3.6985**	**0.9875**	**0.0289**	**1.0165**	**0.0000**	**4,699.7963**	**4,699.7963**	**0.1793**	**0.0000**	**4,704.2793**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7220**	**303.7220**	**0.0718**	**0.0000**	**305.5175**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1967	6.5733	2.0506	0.0226	0.5867	7.5900e-003	0.5943	0.1693	7.2500e-003	0.1766	0.0000	2,195.7015	2,195.7015	0.1184	0.0000	2,198.6602
Worker	1.0102	0.7016	8.3881	0.0277	3.0806	0.0236	3.1041	0.8182	0.0217	0.8399	0.0000	2,504.0948	2,504.0948	0.0610	0.0000	2,505.6191
Total	**1.2069**	**7.2749**	**10.4387**	**0.0503**	**3.6673**	**0.0311**	**3.6985**	**0.9875**	**0.0289**	**1.0165**	**0.0000**	**4,699.7963**	**4,699.7963**	**0.1793**	**0.0000**	**4,704.2793**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	1.1784	1.5200	2.5500e-003		0.0499	0.0499		0.0469	0.0469	0.0000	219.1639	219.1639	0.0515	0.0000	220.4519
Total	**0.1292**	**1.1784**	**1.5200**	**2.5500e-003**		**0.0499**	**0.0499**		**0.0469**	**0.0469**	**0.0000**	**219.1639**	**219.1639**	**0.0515**	**0.0000**	**220.4519**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1383	4.7009	1.4411	0.0162	0.4233	5.3800e-003	0.4287	0.1222	5.1400e-003	0.1273	0.0000	1,575.2914	1,575.2914	0.0841	0.0000	1,577.3948
Worker	0.6929	0.4630	5.6157	0.0192	2.2223	0.0166	2.2389	0.5902	0.0153	0.6056	0.0000	1,736.4437	1,736.4437	0.0401	0.0000	1,737.4460
Total	**0.8312**	**5.1639**	**7.0568**	**0.0354**	**2.6455**	**0.0220**	**2.6675**	**0.7124**	**0.0205**	**0.7329**	**0.0000**	**3,311.7351**	**3,311.7351**	**0.1242**	**0.0000**	**3,314.8408**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	1.1784	1.5200	2.5500e-003		0.0499	0.0499		0.0469	0.0469	0.0000	219.1636	219.1636	0.0515	0.0000	220.4516
Total	**0.1292**	**1.1784**	**1.5200**	**2.5500e-003**		**0.0499**	**0.0499**		**0.0469**	**0.0469**	**0.0000**	**219.1636**	**219.1636**	**0.0515**	**0.0000**	**220.4516**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1383	4.7009	1.4411	0.0162	0.4233	5.3800e-003	0.4287	0.1222	5.1400e-003	0.1273	0.0000	1,575.2914	1,575.2914	0.0841	0.0000	1,577.3948
Worker	0.6929	0.4630	5.6157	0.0192	2.2223	0.0166	2.2389	0.5902	0.0153	0.6056	0.0000	1,736.4437	1,736.4437	0.0401	0.0000	1,737.4460
Total	**0.8312**	**5.1639**	**7.0568**	**0.0354**	**2.6455**	**0.0220**	**2.6675**	**0.7124**	**0.0205**	**0.7329**	**0.0000**	**3,311.7351**	**3,311.7351**	**0.1242**	**0.0000**	**3,314.8408**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0330	0.3089	0.5248	8.2000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	72.0693	72.0693	0.0233	0.0000	72.6520
Paving	5.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0335**	**0.3089**	**0.5248**	**8.2000e-004**		**0.0151**	**0.0151**		**0.0139**	**0.0139**	**0.0000**	**72.0693**	**72.0693**	**0.0233**	**0.0000**	**72.6520**

3.6 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8500e-003	1.2300e-003	0.0150	5.0000e-005	5.9200e-003	4.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.6237	4.6237	1.1000e-004	0.0000	4.6264
Total	**1.8500e-003**	**1.2300e-003**	**0.0150**	**5.0000e-005**	**5.9200e-003**	**4.0000e-005**	**5.9600e-003**	**1.5700e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**4.6237**	**4.6237**	**1.1000e-004**	**0.0000**	**4.6264**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0330	0.3089	0.5248	8.2000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	72.0692	72.0692	0.0233	0.0000	72.6520
Paving	5.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0335**	**0.3089**	**0.5248**	**8.2000e-004**		**0.0151**	**0.0151**		**0.0139**	**0.0139**	**0.0000**	**72.0692**	**72.0692**	**0.0233**	**0.0000**	**72.6520**

3.6 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8500e-003	1.2300e-003	0.0150	5.0000e-005	5.9200e-003	4.0000e-005	5.9600e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	4.6237	4.6237	1.1000e-004	0.0000	4.6264
Total	**1.8500e-003**	**1.2300e-003**	**0.0150**	**5.0000e-005**	**5.9200e-003**	**4.0000e-005**	**5.9600e-003**	**1.5700e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**4.6237**	**4.6237**	**1.1000e-004**	**0.0000**	**4.6264**

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3700e-003	0.0129	0.0219	3.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	3.0029	3.0029	9.7000e-004	0.0000	3.0272
Paving	2.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3900e-003**	**0.0129**	**0.0219**	**3.0000e-005**		**6.3000e-004**	**6.3000e-004**		**5.8000e-004**	**5.8000e-004**	**0.0000**	**3.0029**	**3.0029**	**9.7000e-004**	**0.0000**	**3.0272**

3.6 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1860	0.1860	0.0000	0.0000	0.1861
Total	**7.0000e-005**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.1860**	**0.1860**	**0.0000**	**0.0000**	**0.1861**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3700e-003	0.0129	0.0219	3.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	3.0029	3.0029	9.7000e-004	0.0000	3.0272
Paving	2.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3900e-003**	**0.0129**	**0.0219**	**3.0000e-005**		**6.3000e-004**	**6.3000e-004**		**5.8000e-004**	**5.8000e-004**	**0.0000**	**3.0029**	**3.0029**	**9.7000e-004**	**0.0000**	**3.0272**

3.6 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1860	0.1860	0.0000	0.0000	0.1861
Total	**7.0000e-005**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.1860**	**0.1860**	**0.0000**	**0.0000**	**0.1861**

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	10.7507					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**10.7571**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

3.7 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0338	0.4163	1.4700e-003	0.1763	1.2800e-003	0.1776	0.0468	1.1700e-003	0.0480	0.0000	132.9643	132.9643	2.9200e-003	0.0000	133.0371
Total	**0.0525**	**0.0338**	**0.4163**	**1.4700e-003**	**0.1763**	**1.2800e-003**	**0.1776**	**0.0468**	**1.1700e-003**	**0.0480**	**0.0000**	**132.9643**	**132.9643**	**2.9200e-003**	**0.0000**	**133.0371**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	10.7507					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**10.7571**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

3.7 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0338	0.4163	1.4700e-003	0.1763	1.2800e-003	0.1776	0.0468	1.1700e-003	0.0480	0.0000	132.9643	132.9643	2.9200e-003	0.0000	133.0371
Total	**0.0525**	**0.0338**	**0.4163**	**1.4700e-003**	**0.1763**	**1.2800e-003**	**0.1776**	**0.0468**	**1.1700e-003**	**0.0480**	**0.0000**	**132.9643**	**132.9643**	**2.9200e-003**	**0.0000**	**133.0371**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.0180	24.5571	50.2526	0.2567	26.7929	0.1323	26.9251	7.1790	0.1229	7.3019	0.0000	23,934.2641	23,934.2641	0.9609	0.0000	23,958.2871
Unmitigated	4.0180	24.5571	50.2526	0.2567	26.7929	0.1323	26.9251	7.1790	0.1229	7.3019	0.0000	23,934.2641	23,934.2641	0.9609	0.0000	23,958.2871

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	6,709.85	6,447.51	5912.74	22,411,391	22,411,391
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	13,364.06	2,980.56	1272.19	32,708,433	32,708,433
Health Club	134.03	84.94	108.79	263,942	263,942
High Turnover (Sit Down Restaurant)	5,293.25	6,592.94	5488.50	7,504,858	7,504,858
Hotel	1,862.76	1,867.32	1356.60	4,273,878	4,273,878
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,974.01	1,872.46	909.95	3,438,935	3,438,935
Total	29,337.96	19,845.74	15,048.77	70,601,436	70,601,436

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Enclosed Parking with Elevator	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
General Office Building	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Health Club	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
High Turnover (Sit Down Restaurant)	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Hotel	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Parking Lot	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Strip Mall	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Burbank De Soto Phase Operational New (All Phases) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	20,284.2297	20,284.2297	0.4791	0.0991	20,325.7435
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	20,284.2297	20,284.2297	0.4791	0.0991	20,325.7435
NaturalGas Mitigated	0.2007	1.7920	1.2937	0.0110		0.1387	0.1387		0.1387	0.1387	0.0000	1,986.2518	1,986.2518	0.0381	0.0364	1,998.0551
NaturalGas Unmitigated	0.2007	1.7920	1.2937	0.0110		0.1387	0.1387		0.1387	0.1387	0.0000	1,986.2518	1,986.2518	0.0381	0.0364	1,998.0551

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.1077e+007	0.0597	0.5104	0.2172	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	591.1100	591.1100	0.0113	0.0108	594.6227
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.26128e+007	0.0680	0.6183	0.5194	3.7100e-003		0.0470	0.0470		0.0470	0.0470	0.0000	673.0686	673.0686	0.0129	0.0123	677.0683
Health Club	73630.8	4.0000e-004	3.6100e-003	3.0300e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9292	3.9292	8.0000e-005	7.0000e-005	3.9526
High Turnover (Sit Down Restaurant)	9.60677e+006	0.0518	0.4709	0.3956	2.8300e-003		0.0358	0.0358		0.0358	0.0358	0.0000	512.6538	512.6538	9.8300e-003	9.4000e-003	515.7003
Hotel	3.77769e+006	0.0204	0.1852	0.1556	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.5919	201.5919	3.8600e-003	3.7000e-003	202.7899
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	73050.5	3.9000e-004	3.5800e-003	3.0100e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.8983	3.8983	7.0000e-005	7.0000e-005	3.9214
Total		**0.2007**	**1.7920**	**1.2937**	**0.0110**		**0.1387**	**0.1387**		**0.1387**	**0.1387**	**0.0000**	**1,986.2518**	**1,986.2518**	**0.0381**	**0.0364**	**1,998.0551**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.1077e+007	0.0597	0.5104	0.2172	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	591.1100	591.1100	0.0113	0.0108	594.6227
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.26128e+007	0.0680	0.6183	0.5194	3.7100e-003		0.0470	0.0470		0.0470	0.0470	0.0000	673.0686	673.0686	0.0129	0.0123	677.0683
Health Club	73630.8	4.0000e-004	3.6100e-003	3.0300e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9292	3.9292	8.0000e-005	7.0000e-005	3.9526
High Turnover (Sit Down Restaurant)	9.60677e+006	0.0518	0.4709	0.3956	2.8300e-003		0.0358	0.0358		0.0358	0.0358	0.0000	512.6538	512.6538	9.8300e-003	9.4000e-003	515.7003
Hotel	3.77769e+006	0.0204	0.1852	0.1556	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.5919	201.5919	3.8600e-003	3.7000e-003	202.7899
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	73050.5	3.9000e-004	3.5800e-003	3.0100e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.8983	3.8983	7.0000e-005	7.0000e-005	3.9214
Total		**0.2007**	**1.7920**	**1.2937**	**0.0110**		**0.1387**	**0.1387**		**0.1387**	**0.1387**	**0.0000**	**1,986.2518**	**1,986.2518**	**0.0381**	**0.0364**	**1,998.0551**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	4.09011e+006	2,278.0354	0.0538	0.0111	2,282.6977
Enclosed Parking with Elevator	1.29061e+007	7,188.1812	0.1698	0.0351	7,202.8926
General Office Building	1.57388e+007	8,765.8923	0.2070	0.0428	8,783.8325
Health Club	45154.8	25.1495	5.9000e-004	1.2000e-004	25.2010
High Turnover (Sit Down Restaurant)	1.83759e+006	1,023.4683	0.0242	5.0000e-003	1,025.5629
Hotel	1.19412e+006	665.0763	0.0157	3.2500e-003	666.4374
Parking Lot	6300	3.5089	8.0000e-005	2.0000e-005	3.5160
Strip Mall	601331	334.9180	7.9100e-003	1.6400e-003	335.6034
Total		**20,284.2298**	**0.4791**	**0.0991**	**20,325.7435**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	4.09011e+006	2,278.0354	0.0538	0.0111	2,282.6977
Enclosed Parking with Elevator	1.29061e+007	7,188.1812	0.1698	0.0351	7,202.8926
General Office Building	1.57388e+007	8,765.8923	0.2070	0.0428	8,783.8325
Health Club	45154.8	25.1495	5.9000e-004	1.2000e-004	25.2010
High Turnover (Sit Down Restaurant)	1.83759e+006	1,023.4683	0.0242	5.0000e-003	1,025.5629
Hotel	1.19412e+006	665.0763	0.0157	3.2500e-003	666.4374
Parking Lot	6300	3.5089	8.0000e-005	2.0000e-005	3.5160
Strip Mall	601331	334.9180	7.9100e-003	1.6400e-003	335.6034
Total		**20,284.2298**	**0.4791**	**0.0991**	**20,325.7435**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	14.3630	0.3821	16.8729	0.0169		1.0215	1.0215		1.0215	1.0215	107.1750	223.1265	330.3015	0.3363	7.2700e-003	340.8755
Unmitigated	14.3630	0.3821	16.8729	0.0169		1.0215	1.0215		1.0215	1.0215	107.1750	223.1265	330.3015	0.3363	7.2700e-003	340.8755

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0751					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.6647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3049	0.2617	6.4141	0.0164		0.9635	0.9635		0.9635	0.9635	107.1750	205.9536	313.1287	0.3196	7.2700e-003	323.2868
Landscaping	0.3182	0.1204	10.4588	5.6000e-004		0.0580	0.0580		0.0580	0.0580	0.0000	17.1729	17.1729	0.0166	0.0000	17.5887
Total	**14.3630**	**0.3821**	**16.8729**	**0.0169**		**1.0215**	**1.0215**		**1.0215**	**1.0215**	**107.1750**	**223.1265**	**330.3016**	**0.3363**	**7.2700e-003**	**340.8755**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0751					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.6647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3049	0.2617	6.4141	0.0164		0.9635	0.9635		0.9635	0.9635	107.1750	205.9536	313.1287	0.3196	7.2700e-003	323.2868
Landscaping	0.3182	0.1204	10.4588	5.6000e-004		0.0580	0.0580		0.0580	0.0580	0.0000	17.1729	17.1729	0.0166	0.0000	17.5887
Total	**14.3630**	**0.3821**	**16.8729**	**0.0169**		**1.0215**	**1.0215**		**1.0215**	**1.0215**	**107.1750**	**223.1265**	**330.3016**	**0.3363**	**7.2700e-003**	**340.8755**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,389.4272	9.9525	0.2493	3,712.5172
Unmitigated	3,389.4272	9.9525	0.2493	3,712.5172

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	65.7404 / 41.445	754.0742	2.1595	0.0542	824.2017
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	215.344 / 131.985	2,446.7381	7.0732	0.1773	2,676.4050
Health Club	0.240713 / 0.147534	2.7350	7.9100e-003	2.0000e-004	2.9917
High Turnover (Sit Down Restaurant)	12.6361 / 0.80656	100.6393	0.4140	0.0102	114.0280
Hotel	5.78362 / 0.642625	47.7553	0.1895	4.6700e-003	53.8869
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.29919 / 2.02208	37.4854	0.1084	2.7200e-003	41.0040
Total		**3,389.4272**	**9.9525**	**0.2493**	**3,712.5172**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	65.7404 / 41.445	754.0742	2.1595	0.0542	824.2017
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	215.344 / 131.985	2,446.7381	7.0732	0.1773	2,676.4050
Health Club	0.240713 / 0.147534	2.7350	7.9100e-003	2.0000e-004	2.9917
High Turnover (Sit Down Restaurant)	12.6361 / 0.80656	100.6393	0.4140	0.0102	114.0280
Hotel	5.78362 / 0.642625	47.7553	0.1895	4.6700e-003	53.8869
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.29919 / 2.02208	37.4854	0.1084	2.7200e-003	41.0040
Total		**3,389.4272**	**9.9525**	**0.2493**	**3,712.5172**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	463.0508	27.3655	0.0000	1,147.1888
Unmitigated	463.0508	27.3655	0.0000	1,147.1888

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	464.14	94.2162	5.5680	0.0000	233.4167
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1126.8	228.7302	13.5176	0.0000	566.6694
Health Club	23.2	4.7094	0.2783	0.0000	11.6673
High Turnover (Sit Down Restaurant)	495.4	100.5617	5.9430	0.0000	249.1374
Hotel	124.83	25.3394	1.4975	0.0000	62.7772
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	46.77	9.4939	0.5611	0.0000	23.5207
Total		**463.0508**	**27.3655**	**0.0000**	**1,147.1888**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	464.14	94.2162	5.5680	0.0000	233.4167
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1126.8	228.7302	13.5176	0.0000	566.6694
Health Club	23.2	4.7094	0.2783	0.0000	11.6673
High Turnover (Sit Down Restaurant)	495.4	100.5617	5.9430	0.0000	249.1374
Hotel	124.83	25.3394	1.4975	0.0000	62.7772
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	46.77	9.4939	0.5611	0.0000	23.5207
Total		**463.0508**	**27.3655**	**0.0000**	**1,147.1888**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase Operational New (All Phases)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,211.61	1000sqft	6.05	1,211,607.00	0
Enclosed Parking with Elevator	5,506.00	Space	49.55	2,202,400.00	0
Parking Lot	45.00	Space	0.41	18,000.00	0
High Turnover (Sit Down Restaurant)	41.63	1000sqft	0.21	41,631.00	0
Hotel	228.00	Room	0.79	157,535.00	0
Apartments Mid Rise	1,009.00	Dwelling Unit	5.98	1,175,513.00	2886
Strip Mall	44.54	1000sqft	0.22	44,543.00	0
Health Club	4.07	1000sqft	0.01	4,068.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types and sizes.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading -

Trips and VMT -

Architectural Coating -

Water Mitigation - See SWAPE comment about operational mitigation measures.

Waste Mitigation - See SWAPE comment about operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	1,211,610.00	1,211,607.00
tblLandUse	LandUseSquareFeet	41,630.00	41,631.00
tblLandUse	LandUseSquareFeet	331,056.00	157,535.00
tblLandUse	LandUseSquareFeet	1,009,000.00	1,175,513.00
tblLandUse	LandUseSquareFeet	44,540.00	44,543.00
tblLandUse	LandUseSquareFeet	4,070.00	4,068.00
tblLandUse	LotAcreage	27.81	6.05
tblLandUse	LotAcreage	0.96	0.21
tblLandUse	LotAcreage	7.60	0.79
tblLandUse	LotAcreage	26.55	5.98
tblLandUse	LotAcreage	1.02	0.22
tblLandUse	LotAcreage	0.09	0.01

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1593	42.4763	22.4100	0.0406	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	3,924.1219	3,924.1219	1.1985	0.0000	3,950.7096
2021	13.2610	92.7856	121.0569	0.4551	28.5391	2.0461	29.8328	9.9840	1.8824	11.8664	0.0000	46,535.3777	46,535.3777	2.4875	0.0000	46,597.5646
2022	12.3513	86.9739	113.1840	0.4447	28.5392	1.1202	29.6594	7.6722	1.0521	8.7243	0.0000	45,506.4465	45,506.4465	2.3745	0.0000	45,565.8092
2023	11.1693	69.3626	105.1034	0.4300	28.5394	0.9397	29.4790	7.6722	0.8814	8.5536	0.0000	44,034.0516	44,034.0516	2.1798	0.0000	44,088.5471
2024	10.5947	67.7765	99.5796	0.4221	28.5395	0.8499	29.3894	7.6722	0.7967	8.4690	0.0000	43,254.4246	43,254.4246	2.1138	0.0000	43,307.2706
2025	10.0673	65.9805	94.2371	0.4124	28.5396	0.7596	29.2991	7.6723	0.7118	8.3841	0.0000	42,299.3386	42,299.3386	2.0496	0.0000	42,350.5775
2026	288.2436	8.6094	14.9936	0.0439	4.7952	0.4197	4.8807	1.2717	0.3861	1.3545	0.0000	4,364.1537	4,364.1537	0.7169	0.0000	4,366.7882
Maximum	**288.2436**	**92.7856**	**121.0569**	**0.4551**	**28.5396**	**2.1991**	**29.8328**	**9.9840**	**2.0232**	**12.0072**	**0.0000**	**46,535.3777**	**46,535.3777**	**2.4875**	**0.0000**	**46,597.5646**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1593	42.4763	22.4100	0.0406	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	3,924.1219	3,924.1219	1.1985	0.0000	3,950.7096
2021	13.2610	92.7856	121.0569	0.4551	28.5391	2.0461	29.8328	9.9840	1.8824	11.8664	0.0000	46,535.3777	46,535.3777	2.4875	0.0000	46,597.5645
2022	12.3513	86.9739	113.1840	0.4447	28.5392	1.1202	29.6594	7.6722	1.0521	8.7243	0.0000	45,506.4465	45,506.4465	2.3745	0.0000	45,565.8092
2023	11.1693	69.3626	105.1034	0.4300	28.5394	0.9397	29.4790	7.6722	0.8814	8.5536	0.0000	44,034.0516	44,034.0516	2.1798	0.0000	44,088.5471
2024	10.5947	67.7765	99.5796	0.4221	28.5395	0.8499	29.3894	7.6722	0.7967	8.4690	0.0000	43,254.4246	43,254.4246	2.1138	0.0000	43,307.2706
2025	10.0673	65.9805	94.2371	0.4124	28.5396	0.7596	29.2991	7.6723	0.7118	8.3841	0.0000	42,299.3386	42,299.3386	2.0496	0.0000	42,350.5775
2026	288.2436	8.6094	14.9936	0.0439	4.7952	0.4197	4.8807	1.2717	0.3861	1.3545	0.0000	4,364.1537	4,364.1537	0.7169	0.0000	4,366.7882
Maximum	**288.2436**	**92.7856**	**121.0569**	**0.4551**	**28.5396**	**2.1991**	**29.8328**	**9.9840**	**2.0232**	**12.0072**	**0.0000**	**46,535.3777**	**46,535.3777**	**2.4875**	**0.0000**	**46,597.5645**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	325.7885	21.8985	596.7988	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4389	27,764.6596	28.3320	0.6415	28,664.1223
Energy	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765
Mobile	27.5538	155.8906	337.3487	1.7243	177.4590	0.8590	178.3181	47.4720	0.7980	48.2700		177,089.9575	177,089.9575	6.8649		177,261.5808
Total	**354.4421**	**187.6082**	**941.2363**	**3.0978**	**177.4590**	**79.1589**	**256.6179**	**47.4720**	**79.0978**	**126.5698**	**9,451.2207**	**207,400.4803**	**216,851.7010**	**35.4269**	**0.8614**	**217,994.0796**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	325.7885	21.8985	596.7988	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4389	27,764.6596	28.3320	0.6415	28,664.1223
Energy	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765
Mobile	27.5538	155.8906	337.3487	1.7243	177.4590	0.8590	178.3181	47.4720	0.7980	48.2700		177,089.9575	177,089.9575	6.8649		177,261.5808
Total	**354.4421**	**187.6082**	**941.2363**	**3.0978**	**177.4590**	**79.1589**	**256.6179**	**47.4720**	**79.0978**	**126.5698**	**9,451.2207**	**207,400.4803**	**216,851.7010**	**35.4269**	**0.8614**	**217,994.0796**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/18/2020	11/23/2020	5	70	
2	Site Preparation	Site Preparation	11/24/2020	1/18/2021	5	40	
3	Grading	Grading	1/19/2021	6/21/2021	5	110	
4	Building Construction	Building Construction	6/22/2021	9/22/2025	5	1110	
5	Paving	Paving	9/23/2025	1/5/2026	5	75	
6	Architectural Coating	Architectural Coating	1/6/2026	4/20/2026	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 49.96

Residential Indoor: 2,380,414; Residential Outdoor: 793,471; Non-Residential Indoor: 2,189,076; Non-Residential Outdoor: 729,692; Striped Parking Area: 133,224 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase Operational New (All Phases) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,146.00	711.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	429.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.0772**	**0.0530**	**0.7250**	**2.0600e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**204.9786**	**204.9786**	**6.0400e-003**		**205.1296**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.0772**	**0.0530**	**0.7250**	**2.0600e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**204.9786**	**204.9786**	**6.0400e-003**		**205.1296**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	**0.0857**	**0.0589**	**0.8056**	**2.2900e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**227.7540**	**227.7540**	**6.7100e-003**		**227.9217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	**0.0857**	**0.0589**	**0.8056**	**2.2900e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**227.7540**	**227.7540**	**6.7100e-003**		**227.9217**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.1612	69.0306	18.0464	0.1829	4.5519	0.1412	4.6931	1.3106	0.1350	1.4456		19,544.0128	19,544.0128	1.1514		19,572.7977
Worker	9.1990	6.3229	86.4353	0.2453	23.9872	0.1938	24.1811	6.3615	0.1785	6.5401		24,438.0010	24,438.0010	0.7201		24,456.0026
Total	**11.3601**	**75.3535**	**104.4817**	**0.4282**	**28.5391**	**0.3350**	**28.8741**	**7.6721**	**0.3135**	**7.9857**		**43,982.0138**	**43,982.0138**	**1.8715**		**44,028.8003**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.1612	69.0306	18.0464	0.1829	4.5519	0.1412	4.6931	1.3106	0.1350	1.4456		19,544.0128	19,544.0128	1.1514		19,572.7977
Worker	9.1990	6.3229	86.4353	0.2453	23.9872	0.1938	24.1811	6.3615	0.1785	6.5401		24,438.0010	24,438.0010	0.7201		24,456.0026
Total	**11.3601**	**75.3535**	**104.4817**	**0.4282**	**28.5391**	**0.3350**	**28.8741**	**7.6721**	**0.3135**	**7.9857**		**43,982.0138**	**43,982.0138**	**1.8715**		**44,028.8003**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.0283	65.6468	17.0747	0.1811	4.5520	0.1234	4.6754	1.3106	0.1180	1.4286		19,373.7466	19,373.7466	1.1118		19,401.5413
Worker	8.6167	5.7114	79.7459	0.2366	23.9872	0.1878	24.1750	6.3615	0.1729	6.5345		23,578.3663	23,578.3663	0.6508		23,594.6357
Total	**10.6450**	**71.3582**	**96.8206**	**0.4177**	**28.5392**	**0.3112**	**28.8504**	**7.6722**	**0.2910**	**7.9631**		**42,952.1130**	**42,952.1130**	**1.7626**		**42,996.1769**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.0283	65.6468	17.0747	0.1811	4.5520	0.1234	4.6754	1.3106	0.1180	1.4286		19,373.7466	19,373.7466	1.1118		19,401.5413
Worker	8.6167	5.7114	79.7459	0.2366	23.9872	0.1878	24.1750	6.3615	0.1729	6.5345		23,578.3663	23,578.3663	0.6508		23,594.6357
Total	**10.6450**	**71.3582**	**96.8206**	**0.4177**	**28.5392**	**0.3112**	**28.8504**	**7.6722**	**0.2910**	**7.9631**		**42,952.1130**	**42,952.1130**	**1.7626**		**42,996.1769**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5048	49.8103	15.4204	0.1751	4.5521	0.0575	4.6097	1.3107	0.0550	1.3657		18,763.8181	18,763.8181	0.9852		18,788.4486
Worker	8.0917	5.1674	73.4390	0.2279	23.9872	0.1824	24.1696	6.3615	0.1680	6.5295		22,715.0235	22,715.0235	0.5868		22,729.6925
Total	**9.5965**	**54.9777**	**88.8594**	**0.4031**	**28.5394**	**0.2400**	**28.7793**	**7.6722**	**0.2230**	**7.8952**		**41,478.8416**	**41,478.8416**	**1.5720**		**41,518.1411**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5048	49.8103	15.4204	0.1751	4.5521	0.0575	4.6097	1.3107	0.0550	1.3657		18,763.8181	18,763.8181	0.9852		18,788.4486
Worker	8.0917	5.1674	73.4390	0.2279	23.9872	0.1824	24.1696	6.3615	0.1680	6.5295		22,715.0235	22,715.0235	0.5868		22,729.6925
Total	**9.5965**	**54.9777**	**88.8594**	**0.4031**	**28.5394**	**0.2400**	**28.7793**	**7.6722**	**0.2230**	**7.8952**		**41,478.8416**	**41,478.8416**	**1.5720**		**41,518.1411**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4686	49.6203	14.9507	0.1743	4.5523	0.0568	4.6091	1.3107	0.0543	1.3650		18,687.6702	18,687.6702	0.9712		18,711.9498
Worker	7.6545	4.7124	68.4620	0.2208	23.9872	0.1798	24.1670	6.3615	0.1655	6.5271		22,011.0556	22,011.0556	0.5383		22,024.5131
Total	**9.1232**	**54.3328**	**83.4128**	**0.3951**	**28.5395**	**0.2366**	**28.7761**	**7.6722**	**0.2198**	**7.8921**		**40,698.7257**	**40,698.7257**	**1.5095**		**40,736.4630**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4686	49.6203	14.9507	0.1743	4.5523	0.0568	4.6091	1.3107	0.0543	1.3650		18,687.6702	18,687.6702	0.9712		18,711.9498
Worker	7.6545	4.7124	68.4620	0.2208	23.9872	0.1798	24.1670	6.3615	0.1655	6.5271		22,011.0556	22,011.0556	0.5383		22,024.5131
Total	**9.1232**	**54.3328**	**83.4128**	**0.3951**	**28.5395**	**0.2366**	**28.7761**	**7.6722**	**0.2198**	**7.8921**		**40,698.7257**	**40,698.7257**	**1.5095**		**40,736.4630**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4316	49.1991	14.5667	0.1732	4.5523	0.0559	4.6083	1.3107	0.0535	1.3642		18,584.6998	18,584.6998	0.9576		18,608.6388
Worker	7.2684	4.3117	63.5858	0.2122	23.9872	0.1761	24.1633	6.3615	0.1621	6.5236		21,158.1645	21,158.1645	0.4911		21,170.4407
Total	**8.6999**	**53.5109**	**78.1525**	**0.3854**	**28.5396**	**0.2320**	**28.7716**	**7.6723**	**0.2155**	**7.8878**		**39,742.8643**	**39,742.8643**	**1.4486**		**39,779.0795**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4316	49.1991	14.5667	0.1732	4.5523	0.0559	4.6083	1.3107	0.0535	1.3642		18,584.6998	18,584.6998	0.9576		18,608.6388
Worker	7.2684	4.3117	63.5858	0.2122	23.9872	0.1761	24.1633	6.3615	0.1621	6.5236		21,158.1645	21,158.1645	0.4911		21,170.4407
Total	**8.6999**	**53.5109**	**78.1525**	**0.3854**	**28.5396**	**0.2320**	**28.7716**	**7.6723**	**0.2155**	**7.8878**		**39,742.8643**	**39,742.8643**	**1.4486**		**39,779.0795**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9295**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0508	0.0301	0.4445	1.4800e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1300e-003	0.0456		147.8903	147.8903	3.4300e-003		147.9761
Total	**0.0508**	**0.0301**	**0.4445**	**1.4800e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1300e-003**	**0.0456**		**147.8903**	**147.8903**	**3.4300e-003**		**147.9761**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9295**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0508	0.0301	0.4445	1.4800e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1300e-003	0.0456		147.8903	147.8903	3.4300e-003		147.9761
Total	**0.0508**	**0.0301**	**0.4445**	**1.4800e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1300e-003**	**0.0456**		**147.8903**	**147.8903**	**3.4300e-003**		**147.9761**

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9295**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0278	0.4156	1.4300e-003	0.1677	1.1900e-003	0.1689	0.0445	1.0900e-003	0.0456		142.7520	142.7520	3.1500e-003		142.8306
Total	**0.0485**	**0.0278**	**0.4156**	**1.4300e-003**	**0.1677**	**1.1900e-003**	**0.1689**	**0.0445**	**1.0900e-003**	**0.0456**		**142.7520**	**142.7520**	**3.1500e-003**		**142.8306**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9295**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0278	0.4156	1.4300e-003	0.1677	1.1900e-003	0.1689	0.0445	1.0900e-003	0.0456		142.7520	142.7520	3.1500e-003		142.8306
Total	**0.0485**	**0.0278**	**0.4156**	**1.4300e-003**	**0.1677**	**1.1900e-003**	**0.1689**	**0.0445**	**1.0900e-003**	**0.0456**		**142.7520**	**142.7520**	**3.1500e-003**		**142.8306**

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	286.6862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**286.8570**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.3866	0.7941	11.8865	0.0409	4.7952	0.0340	4.8292	1.2717	0.0313	1.3030		4,082.7056	4,082.7056	0.0900		4,084.9564
Total	**1.3866**	**0.7941**	**11.8865**	**0.0409**	**4.7952**	**0.0340**	**4.8292**	**1.2717**	**0.0313**	**1.3030**		**4,082.7056**	**4,082.7056**	**0.0900**		**4,084.9564**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	286.6862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**286.8570**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.3866	0.7941	11.8865	0.0409	4.7952	0.0340	4.8292	1.2717	0.0313	1.3030		4,082.7056	4,082.7056	0.0900		4,084.9564
Total	**1.3866**	**0.7941**	**11.8865**	**0.0409**	**4.7952**	**0.0340**	**4.8292**	**1.2717**	**0.0313**	**1.3030**		**4,082.7056**	**4,082.7056**	**0.0900**		**4,084.9564**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	27.5538	155.8906	337.3487	1.7243	177.4590	0.8590	178.3181	47.4720	0.7980	48.2700		177,089.9575	177,089.9575	6.8649		177,261.5808
Unmitigated	27.5538	155.8906	337.3487	1.7243	177.4590	0.8590	178.3181	47.4720	0.7980	48.2700		177,089.9575	177,089.9575	6.8649		177,261.5808

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	6,709.85	6,447.51	5912.74	22,411,391	22,411,391
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	13,364.06	2,980.56	1272.19	32,708,433	32,708,433
Health Club	134.03	84.94	108.79	263,942	263,942
High Turnover (Sit Down Restaurant)	5,293.25	6,592.94	5488.50	7,504,858	7,504,858
Hotel	1,862.76	1,867.32	1356.60	4,273,878	4,273,878
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,974.01	1,872.46	909.95	3,438,935	3,438,935
Total	29,337.96	19,845.74	15,048.77	70,601,436	70,601,436

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Enclosed Parking with Elevator	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
General Office Building	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Health Club	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
High Turnover (Sit Down Restaurant)	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Hotel	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Parking Lot	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Strip Mall	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Burbank De Soto Phase Operational New (All Phases) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765
NaturalGas Unmitigated	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	30347.9	0.3273	2.7968	1.1901	0.0179		0.2261	0.2261		0.2261	0.2261		3,570.3412	3,570.3412	0.0684	0.0655	3,591.5580
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	34555.7	0.3727	3.3878	2.8458	0.0203		0.2575	0.2575		0.2575	0.2575		4,065.3760	4,065.3760	0.0779	0.0745	4,089.5344
Health Club	201.728	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7327	23.7327	4.5000e-004	4.4000e-004	23.8738
High Turnover (Sit Down Restaurant)	26319.9	0.2838	2.5804	2.1675	0.0155		0.1961	0.1961		0.1961	0.1961		3,096.4608	3,096.4608	0.0594	0.0568	3,114.8615
Hotel	10349.8	0.1116	1.0147	0.8523	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.6275	1,217.6275	0.0233	0.0223	1,224.8633
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	200.138	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5457	23.5457	4.5000e-004	4.3000e-004	23.6856
Total		**1.0997**	**9.8191**	**7.0888**	**0.0600**		**0.7598**	**0.7598**		**0.7598**	**0.7598**		**11,997.0839**	**11,997.0839**	**0.2299**	**0.2200**	**12,068.3765**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	30.3479	0.3273	2.7968	1.1901	0.0179		0.2261	0.2261		0.2261	0.2261		3,570.3412	3,570.3412	0.0684	0.0655	3,591.5580
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	34.5557	0.3727	3.3878	2.8458	0.0203		0.2575	0.2575		0.2575	0.2575		4,065.3760	4,065.3760	0.0779	0.0745	4,089.5344
Health Club	0.201728	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7327	23.7327	4.5000e-004	4.4000e-004	23.8738
High Turnover (Sit Down Restaurant)	26.3199	0.2838	2.5804	2.1675	0.0155		0.1961	0.1961		0.1961	0.1961		3,096.4608	3,096.4608	0.0594	0.0568	3,114.8615
Hotel	10.3498	0.1116	1.0147	0.8523	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.6275	1,217.6275	0.0233	0.0223	1,224.8633
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.200138	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5457	23.5457	4.5000e-004	4.3000e-004	23.6856
Total		**1.0997**	**9.8191**	**7.0888**	**0.0600**		**0.7598**	**0.7598**		**0.7598**	**0.7598**		**11,997.0839**	**11,997.0839**	**0.2299**	**0.2200**	**12,068.3765**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	325.7885	21.8985	596.7988	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4389	27,764.6596	28.3320	0.6415	28,664.1223
Unmitigated	325.7885	21.8985	596.7988	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4389	27,764.6596	28.3320	0.6415	28,664.1223

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.8908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	52.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	264.3943	20.9351	513.1288	1.3090		77.0758	77.0758		77.0758	77.0758	9,451.2207	18,162.0000	27,613.2207	28.1854	0.6415	28,509.0164
Landscaping	2.5460	0.9635	83.6700	4.4500e-003		0.4642	0.4642		0.4642	0.4642		151.4389	151.4389	0.1467		155.1059
Total	**325.7885**	**21.8985**	**596.7988**	**1.3135**		**77.5400**	**77.5400**		**77.5400**	**77.5400**	**9,451.2207**	**18,313.4389**	**27,764.6596**	**28.3321**	**0.6415**	**28,664.1223**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.8908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	52.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	264.3943	20.9351	513.1288	1.3090		77.0758	77.0758		77.0758	77.0758	9,451.2207	18,162.0000	27,613.2207	28.1854	0.6415	28,509.0164
Landscaping	2.5460	0.9635	83.6700	4.4500e-003		0.4642	0.4642		0.4642	0.4642		151.4389	151.4389	0.1467		155.1059
Total	**325.7885**	**21.8985**	**596.7988**	**1.3135**		**77.5400**	**77.5400**		**77.5400**	**77.5400**	**9,451.2207**	**18,313.4389**	**27,764.6596**	**28.3321**	**0.6415**	**28,664.1223**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase Operational New (All Phases)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,211.61	1000sqft	6.05	1,211,607.00	0
Enclosed Parking with Elevator	5,506.00	Space	49.55	2,202,400.00	0
Parking Lot	45.00	Space	0.41	18,000.00	0
High Turnover (Sit Down Restaurant)	41.63	1000sqft	0.21	41,631.00	0
Hotel	228.00	Room	0.79	157,535.00	0
Apartments Mid Rise	1,009.00	Dwelling Unit	5.98	1,175,513.00	2886
Strip Mall	44.54	1000sqft	0.22	44,543.00	0
Health Club	4.07	1000sqft	0.01	4,068.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types and sizes.

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading -

Trips and VMT -

Architectural Coating -

Water Mitigation - See SWAPE comment about operational mitigation measures.

Waste Mitigation - See SWAPE comment about operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	1,211,610.00	1,211,607.00
tblLandUse	LandUseSquareFeet	41,630.00	41,631.00
tblLandUse	LandUseSquareFeet	331,056.00	157,535.00
tblLandUse	LandUseSquareFeet	1,009,000.00	1,175,513.00
tblLandUse	LandUseSquareFeet	44,540.00	44,543.00
tblLandUse	LandUseSquareFeet	4,070.00	4,068.00
tblLandUse	LotAcreage	27.81	6.05
tblLandUse	LotAcreage	0.96	0.21
tblLandUse	LotAcreage	7.60	0.79
tblLandUse	LotAcreage	26.55	5.98
tblLandUse	LotAcreage	1.02	0.22
tblLandUse	LotAcreage	0.09	0.01

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1685	42.4826	22.3547	0.0405	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	3,913.8180	3,913.8180	1.1981	0.0000	3,940.3976
2021	14.4023	93.3191	115.5655	0.4358	28.5391	2.0461	29.8373	9.9840	1.8824	11.8664	0.0000	44,572.1391	44,572.1391	2.5202	0.0000	44,635.1451
2022	13.4468	87.4049	108.0469	0.4259	28.5392	1.1242	29.6635	7.6722	1.0560	8.7281	0.0000	43,595.5810	43,595.5810	2.4073	0.0000	43,655.7628
2023	12.2094	69.6860	99.9402	0.4120	28.5394	0.9427	29.4820	7.6722	0.8842	8.5564	0.0000	42,199.1405	42,199.1405	2.2006	0.0000	42,254.1561
2024	11.6068	68.0622	94.7349	0.4045	28.5395	0.8526	29.3920	7.6722	0.7993	8.4715	0.0000	41,465.3580	41,465.3580	2.1352	0.0000	41,518.7391
2025	11.0555	66.2255	89.7445	0.3954	28.5396	0.7620	29.3015	7.6723	0.7141	8.3863	0.0000	40,566.3090	40,566.3090	2.0718	0.0000	40,618.1027
2026	288.4235	8.6123	14.9554	0.0415	4.7952	0.4197	4.8807	1.2717	0.3861	1.3545	0.0000	4,126.0303	4,126.0303	0.7167	0.0000	4,128.5197
Maximum	**288.4235**	**93.3191**	**115.5655**	**0.4358**	**28.5396**	**2.1991**	**29.8373**	**9.9840**	**2.0232**	**12.0072**	**0.0000**	**44,572.1391**	**44,572.1391**	**2.5202**	**0.0000**	**44,635.1451**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1685	42.4826	22.3547	0.0405	18.2675	2.1991	20.4666	9.9840	2.0232	12.0072	0.0000	3,913.8180	3,913.8180	1.1981	0.0000	3,940.3976
2021	14.4023	93.3191	115.5655	0.4358	28.5391	2.0461	29.8373	9.9840	1.8824	11.8664	0.0000	44,572.1391	44,572.1391	2.5202	0.0000	44,635.1451
2022	13.4468	87.4049	108.0469	0.4259	28.5392	1.1242	29.6635	7.6722	1.0560	8.7281	0.0000	43,595.5810	43,595.5810	2.4073	0.0000	43,655.7628
2023	12.2094	69.6860	99.9402	0.4120	28.5394	0.9427	29.4820	7.6722	0.8842	8.5564	0.0000	42,199.1405	42,199.1405	2.2006	0.0000	42,254.1561
2024	11.6068	68.0622	94.7349	0.4045	28.5395	0.8526	29.3920	7.6722	0.7993	8.4715	0.0000	41,465.3580	41,465.3580	2.1352	0.0000	41,518.7391
2025	11.0555	66.2255	89.7445	0.3954	28.5396	0.7620	29.3015	7.6723	0.7141	8.3863	0.0000	40,566.3090	40,566.3090	2.0718	0.0000	40,618.1027
2026	288.4235	8.6123	14.9554	0.0415	4.7952	0.4197	4.8807	1.2717	0.3861	1.3545	0.0000	4,126.0303	4,126.0303	0.7167	0.0000	4,128.5197
Maximum	**288.4235**	**93.3191**	**115.5655**	**0.4358**	**28.5396**	**2.1991**	**29.8373**	**9.9840**	**2.0232**	**12.0072**	**0.0000**	**44,572.1391**	**44,572.1391**	**2.5202**	**0.0000**	**44,635.1451**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	325.7885	21.8985	596.7988	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4389	27,764.6596	28.3320	0.6415	28,664.1223
Energy	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765
Mobile	26.7320	157.0129	322.9010	1.6435	177.4590	0.8614	178.3204	47.4720	0.8002	48.2722		168,901.4100	168,901.4100	6.9429		169,074.9825
Total	**353.6202**	**188.7305**	**926.7886**	**3.0170**	**177.4590**	**79.1612**	**256.6202**	**47.4720**	**79.1000**	**126.5720**	**9,451.2207**	**199,211.9328**	**208,663.1535**	**35.5049**	**0.8614**	**209,807.4813**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	325.7885	21.8985	596.7988	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4389	27,764.6596	28.3320	0.6415	28,664.1223
Energy	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765
Mobile	26.7320	157.0129	322.9010	1.6435	177.4590	0.8614	178.3204	47.4720	0.8002	48.2722		168,901.4100	168,901.4100	6.9429		169,074.9825
Total	**353.6202**	**188.7305**	**926.7886**	**3.0170**	**177.4590**	**79.1612**	**256.6202**	**47.4720**	**79.1000**	**126.5720**	**9,451.2207**	**199,211.9328**	**208,663.1535**	**35.5049**	**0.8614**	**209,807.4813**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/18/2020	11/23/2020	5	70	
2	Site Preparation	Site Preparation	11/24/2020	1/18/2021	5	40	
3	Grading	Grading	1/19/2021	6/21/2021	5	110	
4	Building Construction	Building Construction	6/22/2021	9/22/2025	5	1110	
5	Paving	Paving	9/23/2025	1/5/2026	5	75	
6	Architectural Coating	Architectural Coating	1/6/2026	4/20/2026	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 49.96

Residential Indoor: 2,380,414; Residential Outdoor: 793,471; Non-Residential Indoor: 2,189,076; Non-Residential Outdoor: 729,692; Striped Parking Area: 133,224 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase Operational New (All Phases) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,146.00	711.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	429.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.0858**	**0.0587**	**0.6629**	**1.9400e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**193.0052**	**193.0052**	**5.6800e-003**		**193.1472**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.0858**	**0.0587**	**0.6629**	**1.9400e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**193.0052**	**193.0052**	**5.6800e-003**		**193.1472**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	**0.0954**	**0.0652**	**0.7365**	**2.1500e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.4502**	**214.4502**	**6.3100e-003**		**214.6080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	**0.0954**	**0.0652**	**0.7365**	**2.1500e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.4502**	**214.4502**	**6.3100e-003**		**214.6080**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.2688	68.8879	19.9627	0.1779	4.5519	0.1457	4.6976	1.3106	0.1393	1.4499		19,008.2668	19,008.2668	1.2271		19,038.9446
Worker	10.2326	6.9991	79.0277	0.2310	23.9872	0.1938	24.1811	6.3615	0.1785	6.5401		23,010.5084	23,010.5084	0.6771		23,027.4362
Total	**12.5014**	**75.8870**	**98.9903**	**0.4089**	**28.5391**	**0.3395**	**28.8787**	**7.6721**	**0.3179**	**7.9900**		**42,018.7752**	**42,018.7752**	**1.9042**		**42,066.3808**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.2688	68.8879	19.9627	0.1779	4.5519	0.1457	4.6976	1.3106	0.1393	1.4499		19,008.2668	19,008.2668	1.2271		19,038.9446
Worker	10.2326	6.9991	79.0277	0.2310	23.9872	0.1938	24.1811	6.3615	0.1785	6.5401		23,010.5084	23,010.5084	0.6771		23,027.4362
Total	**12.5014**	**75.8870**	**98.9903**	**0.4089**	**28.5391**	**0.3395**	**28.8787**	**7.6721**	**0.3179**	**7.9900**		**42,018.7752**	**42,018.7752**	**1.9042**		**42,066.3808**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.1299	65.4683	18.8962	0.1762	4.5520	0.1274	4.6795	1.3106	0.1219	1.4325		18,839.3869	18,839.3869	1.1840		18,868.9869
Worker	9.6107	6.3209	72.7872	0.2228	23.9872	0.1878	24.1750	6.3615	0.1729	6.5345		22,201.8605	22,201.8605	0.6113		22,217.1436
Total	**11.7405**	**71.7892**	**91.6835**	**0.3990**	**28.5392**	**0.3152**	**28.8545**	**7.6722**	**0.2948**	**7.9670**		**41,041.2474**	**41,041.2474**	**1.7953**		**41,086.1306**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.1299	65.4683	18.8962	0.1762	4.5520	0.1274	4.6795	1.3106	0.1219	1.4325		18,839.3869	18,839.3869	1.1840		18,868.9869
Worker	9.6107	6.3209	72.7872	0.2228	23.9872	0.1878	24.1750	6.3615	0.1729	6.5345		22,201.8605	22,201.8605	0.6113		22,217.1436
Total	**11.7405**	**71.7892**	**91.6835**	**0.3990**	**28.5392**	**0.3152**	**28.8545**	**7.6722**	**0.2948**	**7.9670**		**41,041.2474**	**41,041.2474**	**1.7953**		**41,086.1306**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5824	49.5842	16.7911	0.1705	4.5521	0.0605	4.6126	1.3107	0.0578	1.3685		18,254.3071	18,254.3071	1.0423		18,280.3651
Worker	9.0543	5.7169	66.9052	0.2146	23.9872	0.1824	24.1696	6.3615	0.1680	6.5295		21,389.6235	21,389.6235	0.5505		21,403.3849
Total	**10.6366**	**55.3011**	**83.6962**	**0.3850**	**28.5394**	**0.2429**	**28.7823**	**7.6722**	**0.2258**	**7.8980**		**39,643.9306**	**39,643.9306**	**1.5928**		**39,683.7500**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5824	49.5842	16.7911	0.1705	4.5521	0.0605	4.6126	1.3107	0.0578	1.3685		18,254.3071	18,254.3071	1.0423		18,280.3651
Worker	9.0543	5.7169	66.9052	0.2146	23.9872	0.1824	24.1696	6.3615	0.1680	6.5295		21,389.6235	21,389.6235	0.5505		21,403.3849
Total	**10.6366**	**55.3011**	**83.6962**	**0.3850**	**28.5394**	**0.2429**	**28.7823**	**7.6722**	**0.2258**	**7.8980**		**39,643.9306**	**39,643.9306**	**1.5928**		**39,683.7500**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5434	49.4063	16.2820	0.1697	4.5523	0.0595	4.6117	1.3107	0.0568	1.3675		18,183.5101	18,183.5101	1.0265		18,209.1731
Worker	8.5918	5.2122	62.2861	0.2079	23.9872	0.1798	24.1670	6.3615	0.1655	6.5271		20,726.1490	20,726.1490	0.5044		20,738.7583
Total	**10.1352**	**54.6184**	**78.5681**	**0.3776**	**28.5395**	**0.2393**	**28.7787**	**7.6722**	**0.2224**	**7.8946**		**38,909.6591**	**38,909.6591**	**1.5309**		**38,947.9314**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5434	49.4063	16.2820	0.1697	4.5523	0.0595	4.6117	1.3107	0.0568	1.3675		18,183.5101	18,183.5101	1.0265		18,209.1731
Worker	8.5918	5.2122	62.2861	0.2079	23.9872	0.1798	24.1670	6.3615	0.1655	6.5271		20,726.1490	20,726.1490	0.5044		20,738.7583
Total	**10.1352**	**54.6184**	**78.5681**	**0.3776**	**28.5395**	**0.2393**	**28.7787**	**7.6722**	**0.2224**	**7.8946**		**38,909.6591**	**38,909.6591**	**1.5309**		**38,947.9314**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5040	48.9880	15.8662	0.1687	4.5523	0.0583	4.6107	1.3107	0.0557	1.3665		18,086.0091	18,086.0091	1.0111		18,111.2864
Worker	8.1841	4.7679	57.7936	0.1998	23.9872	0.1761	24.1633	6.3615	0.1621	6.5236		19,923.8255	19,923.8255	0.4597		19,935.3182
Total	**9.6881**	**53.7559**	**73.6598**	**0.3684**	**28.5396**	**0.2344**	**28.7740**	**7.6723**	**0.2178**	**7.8901**		**38,009.8346**	**38,009.8346**	**1.4708**		**38,046.6046**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5040	48.9880	15.8662	0.1687	4.5523	0.0583	4.6107	1.3107	0.0557	1.3665		18,086.0091	18,086.0091	1.0111		18,111.2864
Worker	8.1841	4.7679	57.7936	0.1998	23.9872	0.1761	24.1633	6.3615	0.1621	6.5236		19,923.8255	19,923.8255	0.4597		19,935.3182
Total	**9.6881**	**53.7559**	**73.6598**	**0.3684**	**28.5396**	**0.2344**	**28.7740**	**7.6723**	**0.2178**	**7.8901**		**38,009.8346**	**38,009.8346**	**1.4708**		**38,046.6046**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9295**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0333	0.4040	1.4000e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1300e-003	0.0456		139.2625	139.2625	3.2100e-003		139.3429
Total	**0.0572**	**0.0333**	**0.4040**	**1.4000e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1300e-003**	**0.0456**		**139.2625**	**139.2625**	**3.2100e-003**		**139.3429**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9295**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0333	0.4040	1.4000e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1300e-003	0.0456		139.2625	139.2625	3.2100e-003		139.3429
Total	**0.0572**	**0.0333**	**0.4040**	**1.4000e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1300e-003**	**0.0456**		**139.2625**	**139.2625**	**3.2100e-003**		**139.3429**

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9295**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0548	0.0307	0.3774	1.3500e-003	0.1677	1.1900e-003	0.1689	0.0445	1.0900e-003	0.0456		134.4260	134.4260	2.9400e-003		134.4996
Total	**0.0548**	**0.0307**	**0.3774**	**1.3500e-003**	**0.1677**	**1.1900e-003**	**0.1689**	**0.0445**	**1.0900e-003**	**0.0456**		**134.4260**	**134.4260**	**2.9400e-003**		**134.4996**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0143					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9295**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0548	0.0307	0.3774	1.3500e-003	0.1677	1.1900e-003	0.1689	0.0445	1.0900e-003	0.0456		134.4260	134.4260	2.9400e-003		134.4996
Total	**0.0548**	**0.0307**	**0.3774**	**1.3500e-003**	**0.1677**	**1.1900e-003**	**0.1689**	**0.0445**	**1.0900e-003**	**0.0456**		**134.4260**	**134.4260**	**2.9400e-003**		**134.4996**

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	286.6862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**286.8570**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.5664	0.8780	10.7934	0.0386	4.7952	0.0340	4.8292	1.2717	0.0313	1.3030		3,844.5823	3,844.5823	0.0842		3,846.6878
Total	**1.5664**	**0.8780**	**10.7934**	**0.0386**	**4.7952**	**0.0340**	**4.8292**	**1.2717**	**0.0313**	**1.3030**		**3,844.5823**	**3,844.5823**	**0.0842**		**3,846.6878**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	286.6862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**286.8570**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.5664	0.8780	10.7934	0.0386	4.7952	0.0340	4.8292	1.2717	0.0313	1.3030		3,844.5823	3,844.5823	0.0842		3,846.6878
Total	**1.5664**	**0.8780**	**10.7934**	**0.0386**	**4.7952**	**0.0340**	**4.8292**	**1.2717**	**0.0313**	**1.3030**		**3,844.5823**	**3,844.5823**	**0.0842**		**3,846.6878**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	26.7320	157.0129	322.9010	1.6435	177.4590	0.8614	178.3204	47.4720	0.8002	48.2722		168,901.4100	168,901.4100	6.9429		169,074.9825
Unmitigated	26.7320	157.0129	322.9010	1.6435	177.4590	0.8614	178.3204	47.4720	0.8002	48.2722		168,901.4100	168,901.4100	6.9429		169,074.9825

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	6,709.85	6,447.51	5912.74	22,411,391	22,411,391
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	13,364.06	2,980.56	1272.19	32,708,433	32,708,433
Health Club	134.03	84.94	108.79	263,942	263,942
High Turnover (Sit Down Restaurant)	5,293.25	6,592.94	5488.50	7,504,858	7,504,858
Hotel	1,862.76	1,867.32	1356.60	4,273,878	4,273,878
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,974.01	1,872.46	909.95	3,438,935	3,438,935
Total	29,337.96	19,845.74	15,048.77	70,601,436	70,601,436

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Enclosed Parking with Elevator	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
General Office Building	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Health Club	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
High Turnover (Sit Down Restaurant)	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Hotel	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Parking Lot	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807
Strip Mall	0.539854	0.043743	0.210883	0.115969	0.013375	0.006440	0.022010	0.036531	0.002703	0.001629	0.005324	0.000732	0.000807

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Burbank De Soto Phase Operational New (All Phases) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765
NaturalGas Unmitigated	1.0997	9.8191	7.0888	0.0600		0.7598	0.7598		0.7598	0.7598		11,997.0839	11,997.0839	0.2299	0.2200	12,068.3765

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	30347.9	0.3273	2.7968	1.1901	0.0179		0.2261	0.2261		0.2261	0.2261		3,570.3412	3,570.3412	0.0684	0.0655	3,591.5580
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	34555.7	0.3727	3.3878	2.8458	0.0203		0.2575	0.2575		0.2575	0.2575		4,065.3760	4,065.3760	0.0779	0.0745	4,089.5344
Health Club	201.728	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7327	23.7327	4.5000e-004	4.4000e-004	23.8738
High Turnover (Sit Down Restaurant)	26319.9	0.2838	2.5804	2.1675	0.0155		0.1961	0.1961		0.1961	0.1961		3,096.4608	3,096.4608	0.0594	0.0568	3,114.8615
Hotel	10349.8	0.1116	1.0147	0.8523	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.6275	1,217.6275	0.0233	0.0223	1,224.8633
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	200.138	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5457	23.5457	4.5000e-004	4.3000e-004	23.6856
Total		**1.0997**	**9.8191**	**7.0888**	**0.0600**		**0.7598**	**0.7598**		**0.7598**	**0.7598**		**11,997.0839**	**11,997.0839**	**0.2299**	**0.2200**	**12,068.3765**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	30.3479	0.3273	2.7968	1.1901	0.0179		0.2261	0.2261		0.2261	0.2261		3,570.3412	3,570.3412	0.0684	0.0655	3,591.5580
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	34.5557	0.3727	3.3878	2.8458	0.0203		0.2575	0.2575		0.2575	0.2575		4,065.3760	4,065.3760	0.0779	0.0745	4,089.5344
Health Club	0.201728	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7327	23.7327	4.5000e-004	4.4000e-004	23.8738
High Turnover (Sit Down Restaurant)	26.3199	0.2838	2.5804	2.1675	0.0155		0.1961	0.1961		0.1961	0.1961		3,096.4608	3,096.4608	0.0594	0.0568	3,114.8615
Hotel	10.3498	0.1116	1.0147	0.8523	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.6275	1,217.6275	0.0233	0.0223	1,224.8633
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.200138	2.1600e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.5457	23.5457	4.5000e-004	4.3000e-004	23.6856
Total		**1.0997**	**9.8191**	**7.0888**	**0.0600**		**0.7598**	**0.7598**		**0.7598**	**0.7598**		**11,997.0839**	**11,997.0839**	**0.2299**	**0.2200**	**12,068.3765**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	325.7885	21.8985	596.7988	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4389	27,764.6596	28.3320	0.6415	28,664.1223
Unmitigated	325.7885	21.8985	596.7988	1.3135		77.5400	77.5400		77.5400	77.5400	9,451.2207	18,313.4389	27,764.6596	28.3320	0.6415	28,664.1223

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.8908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	52.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	264.3943	20.9351	513.1288	1.3090		77.0758	77.0758		77.0758	77.0758	9,451.2207	18,162.0000	27,613.2207	28.1854	0.6415	28,509.0164
Landscaping	2.5460	0.9635	83.6700	4.4500e-003		0.4642	0.4642		0.4642	0.4642		151.4389	151.4389	0.1467		155.1059
Total	**325.7885**	**21.8985**	**596.7988**	**1.3135**		**77.5400**	**77.5400**		**77.5400**	**77.5400**	**9,451.2207**	**18,313.4389**	**27,764.6596**	**28.3321**	**0.6415**	**28,664.1223**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.8908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	52.9574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	264.3943	20.9351	513.1288	1.3090		77.0758	77.0758		77.0758	77.0758	9,451.2207	18,162.0000	27,613.2207	28.1854	0.6415	28,509.0164
Landscaping	2.5460	0.9635	83.6700	4.4500e-003		0.4642	0.4642		0.4642	0.4642		151.4389	151.4389	0.1467		155.1059
Total	**325.7885**	**21.8985**	**596.7988**	**1.3135**		**77.5400**	**77.5400**		**77.5400**	**77.5400**	**9,451.2207**	**18,313.4389**	**27,764.6596**	**28.3321**	**0.6415**	**28,664.1223**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto - Phase 1

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	49.02	1000sqft	0.31	49,017.00	0
Enclosed Parking Structure	588.00	Space	5.29	235,200.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
High Turnover (Sit Down Restaurant)	12.44	1000sqft	0.08	12,439.00	0
Apartments Mid Rise	355.00	Dwelling Unit	2.48	387,357.00	1015
Apartments Mid Rise	48.00	Dwelling Unit	0.27	42,781.00	137

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types and sizes.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about changes to offroad equipment unit amounts and usage hours.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about Acres of Grading.

Architectural Coating - Consistent with IS/MND's model.

Area Coating - Consistent with IS/MND's model.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	14,520.00	14,568.00
tblAreaCoating	Area_Parking	14520	14568
tblGrading	MaterialExported	0.00	79,241.00
tblLandUse	LandUseSquareFeet	49,020.00	49,017.00
tblLandUse	LandUseSquareFeet	12,440.00	12,439.00
tblLandUse	LandUseSquareFeet	355,000.00	387,357.00
tblLandUse	LandUseSquareFeet	48,000.00	42,781.00
tblLandUse	LotAcreage	1.13	0.31
tblLandUse	LotAcreage	0.29	0.08
tblLandUse	LotAcreage	9.34	2.48
tblLandUse	LotAcreage	1.26	0.27
tblTripsAndVMT	HaulingTripNumber	359.00	920.00
tblTripsAndVMT	HaulingTripNumber	9,905.00	15,849.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0437	0.5286	0.2840	8.2000e-004	0.0758	0.0203	0.0961	0.0235	0.0189	0.0423	0.0000	75.6647	75.6647	0.0138	0.0000	76.0096
2021	0.8100	5.5514	4.5045	0.0172	0.7776	0.1348	0.9124	0.2204	0.1266	0.3470	0.0000	1,607.6793	1,607.6793	0.1454	0.0000	1,611.3129
2022	1.3909	0.0123	0.0337	9.0000e-005	6.8300e-003	6.6000e-004	7.4900e-003	1.8100e-003	6.6000e-004	2.4700e-003	0.0000	7.6568	7.6568	2.7000e-004	0.0000	7.6635
Maximum	**1.3909**	**5.5514**	**4.5045**	**0.0172**	**0.7776**	**0.1348**	**0.9124**	**0.2204**	**0.1266**	**0.3470**	**0.0000**	**1,607.6793**	**1,607.6793**	**0.1454**	**0.0000**	**1,611.3129**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0437	0.5286	0.2840	8.2000e-004	0.0758	0.0203	0.0961	0.0235	0.0189	0.0423	0.0000	75.6646	75.6646	0.0138	0.0000	76.0096
2021	0.8100	5.5514	4.5045	0.0172	0.7776	0.1348	0.9124	0.2204	0.1266	0.3470	0.0000	1,607.6789	1,607.6789	0.1454	0.0000	1,611.3126
2022	1.3909	0.0123	0.0337	9.0000e-005	6.8300e-003	6.6000e-004	7.4900e-003	1.8100e-003	6.6000e-004	2.4700e-003	0.0000	7.6568	7.6568	2.7000e-004	0.0000	7.6635
Maximum	**1.3909**	**5.5514**	**4.5045**	**0.0172**	**0.7776**	**0.1348**	**0.9124**	**0.2204**	**0.1266**	**0.3470**	**0.0000**	**1,607.6789**	**1,607.6789**	**0.1454**	**0.0000**	**1,611.3126**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
5	**12-1-2020**	**2-28-2021**	3.1312	3.1312
6	**3-1-2021**	**5-31-2021**	1.0334	1.0334
7	**6-1-2021**	**8-31-2021**	1.0303	1.0303
8	**9-1-2021**	**11-30-2021**	1.0252	1.0252
9	**12-1-2021**	**2-28-2022**	1.7392	1.7392
		Highest	3.1312	3.1312

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.7249	0.2571	9.2927	0.0133		0.7926	0.7926		0.7926	0.7926	85.6126	171.3233	256.9358	0.2619	5.8100e-003	265.2151
Energy	0.0421	0.3696	0.2260	2.3000e-003		0.0291	0.0291		0.0291	0.0291	0.0000	2,730.8776	2,730.8776	0.0626	0.0189	2,738.0893
Mobile	1.2359	6.5583	15.4347	0.0568	4.7541	0.0458	4.7998	1.2738	0.0427	1.3165	0.0000	5,247.0262	5,247.0262	0.2575	0.0000	5,253.4645
Waste						0.0000	0.0000		0.0000	0.0000	76.9356	0.0000	76.9356	4.5468	0.0000	190.6047
Water						0.0000	0.0000		0.0000	0.0000	12.2922	417.9539	430.2461	1.2724	0.0319	471.5482
Total	**6.0029**	**7.1850**	**24.9533**	**0.0724**	**4.7541**	**0.8675**	**5.6215**	**1.2738**	**0.8644**	**2.1382**	**174.8403**	**8,567.1810**	**8,742.0213**	**6.4012**	**0.0566**	**8,918.9218**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.7249	0.2571	9.2927	0.0133		0.7926	0.7926		0.7926	0.7926	85.6126	171.3233	256.9358	0.2619	5.8100e-003	265.2151
Energy	0.0421	0.3696	0.2260	2.3000e-003		0.0291	0.0291		0.0291	0.0291	0.0000	2,730.8776	2,730.8776	0.0626	0.0189	2,738.0893
Mobile	1.2359	6.5583	15.4347	0.0568	4.7541	0.0458	4.7998	1.2738	0.0427	1.3165	0.0000	5,247.0262	5,247.0262	0.2575	0.0000	5,253.4645
Waste						0.0000	0.0000		0.0000	0.0000	76.9356	0.0000	76.9356	4.5468	0.0000	190.6047
Water						0.0000	0.0000		0.0000	0.0000	12.2922	417.9539	430.2461	1.2724	0.0319	471.5482
Total	**6.0029**	**7.1850**	**24.9533**	**0.0724**	**4.7541**	**0.8675**	**5.6215**	**1.2738**	**0.8644**	**2.1382**	**174.8403**	**8,567.1810**	**8,742.0213**	**6.4012**	**0.0566**	**8,918.9218**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Burbank De Soto - Phase 1 - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2020	12/28/2020	5	20	
2	Site Preparation	Site Preparation	12/29/2020	1/4/2021	5	5	
3	Grading	Grading	1/5/2021	1/14/2021	5	8	
4	Building Construction	Building Construction	1/15/2021	12/2/2021	5	230	
5	Paving	Paving	12/3/2021	12/28/2021	5	18	
6	Architectural Coating	Architectural Coating	12/29/2021	1/21/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 5.44

Residential Indoor: 871,029; Residential Outdoor: 290,343; Non-Residential Indoor: 92,184; Non-Residential Outdoor: 30,728; Striped Parking Area: 14,568 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Burbank De Soto - Phase 1 - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	920.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	15,849.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	413.00	93.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	83.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0388	0.0000	0.0388	5.8800e-003	0.0000	5.8800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**0.0388**	**0.0166**	**0.0554**	**5.8800e-003**	**0.0154**	**0.0213**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7000e-003	0.1323	0.0275	3.5000e-004	7.9100e-003	4.2000e-004	8.3200e-003	2.1700e-003	4.0000e-004	2.5700e-003	0.0000	34.9016	34.9016	2.5300e-003	0.0000	34.9648
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840
Total	**4.3700e-003**	**0.1328**	**0.0331**	**3.7000e-004**	**9.5600e-003**	**4.3000e-004**	**9.9800e-003**	**2.6100e-003**	**4.1000e-004**	**3.0200e-003**	**0.0000**	**36.3845**	**36.3845**	**2.5700e-003**	**0.0000**	**36.4488**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0388	0.0000	0.0388	5.8800e-003	0.0000	5.8800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**0.0388**	**0.0166**	**0.0554**	**5.8800e-003**	**0.0154**	**0.0213**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7000e-003	0.1323	0.0275	3.5000e-004	7.9100e-003	4.2000e-004	8.3200e-003	2.1700e-003	4.0000e-004	2.5700e-003	0.0000	34.9016	34.9016	2.5300e-003	0.0000	34.9648
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840
Total	**4.3700e-003**	**0.1328**	**0.0331**	**3.7000e-004**	**9.5600e-003**	**4.3000e-004**	**9.9800e-003**	**2.6100e-003**	**4.1000e-004**	**3.0200e-003**	**0.0000**	**36.3845**	**36.3845**	**2.5700e-003**	**0.0000**	**36.4488**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1100e-003	0.0636	0.0323	6.0000e-005		3.3000e-003	3.3000e-003		3.0300e-003	3.0300e-003	0.0000	5.0146	5.0146	1.6200e-003	0.0000	5.0552
Total	**6.1100e-003**	**0.0636**	**0.0323**	**6.0000e-005**	**0.0271**	**3.3000e-003**	**0.0304**	**0.0149**	**3.0300e-003**	**0.0179**	**0.0000**	**5.0146**	**5.0146**	**1.6200e-003**	**0.0000**	**5.0552**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0200e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2669	0.2669	1.0000e-005	0.0000	0.2671
Total	**1.2000e-004**	**9.0000e-005**	**1.0200e-003**	**0.0000**	**3.0000e-004**	**0.0000**	**3.0000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2669**	**0.2669**	**1.0000e-005**	**0.0000**	**0.2671**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1100e-003	0.0636	0.0323	6.0000e-005		3.3000e-003	3.3000e-003		3.0300e-003	3.0300e-003	0.0000	5.0146	5.0146	1.6200e-003	0.0000	5.0551
Total	**6.1100e-003**	**0.0636**	**0.0323**	**6.0000e-005**	**0.0271**	**3.3000e-003**	**0.0304**	**0.0149**	**3.0300e-003**	**0.0179**	**0.0000**	**5.0146**	**5.0146**	**1.6200e-003**	**0.0000**	**5.0551**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0200e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2669	0.2669	1.0000e-005	0.0000	0.2671
Total	**1.2000e-004**	**9.0000e-005**	**1.0200e-003**	**0.0000**	**3.0000e-004**	**0.0000**	**3.0000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2669**	**0.2669**	**1.0000e-005**	**0.0000**	**0.2671**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0181	0.0000	0.0181	9.9300e-003	0.0000	9.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8900e-003	0.0405	0.0212	4.0000e-005		2.0400e-003	2.0400e-003		1.8800e-003	1.8800e-003	0.0000	3.3436	3.3436	1.0800e-003	0.0000	3.3706
Total	**3.8900e-003**	**0.0405**	**0.0212**	**4.0000e-005**	**0.0181**	**2.0400e-003**	**0.0201**	**9.9300e-003**	**1.8800e-003**	**0.0118**	**0.0000**	**3.3436**	**3.3436**	**1.0800e-003**	**0.0000**	**3.3706**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1722	0.1722	0.0000	0.0000	0.1723
Total	**7.0000e-005**	**6.0000e-005**	**6.3000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1722**	**0.1722**	**0.0000**	**0.0000**	**0.1723**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0181	0.0000	0.0181	9.9300e-003	0.0000	9.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8900e-003	0.0405	0.0212	4.0000e-005		2.0400e-003	2.0400e-003		1.8800e-003	1.8800e-003	0.0000	3.3436	3.3436	1.0800e-003	0.0000	3.3706
Total	**3.8900e-003**	**0.0405**	**0.0212**	**4.0000e-005**	**0.0181**	**2.0400e-003**	**0.0201**	**9.9300e-003**	**1.8800e-003**	**0.0118**	**0.0000**	**3.3436**	**3.3436**	**1.0800e-003**	**0.0000**	**3.3706**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1722	0.1722	0.0000	0.0000	0.1723
Total	**7.0000e-005**	**6.0000e-005**	**6.3000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1722**	**0.1722**	**0.0000**	**0.0000**	**0.1723**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0307	0.0000	0.0307	0.0142	0.0000	0.0142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0307**	**4.6400e-003**	**0.0353**	**0.0142**	**4.2700e-003**	**0.0184**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0609	2.1194	0.4669	6.0300e-003	0.1362	6.4500e-003	0.1426	0.0374	6.1700e-003	0.0436	0.0000	594.7121	594.7121	0.0429	0.0000	595.7848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.9000e-004	2.0900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5740	0.5740	2.0000e-005	0.0000	0.5744
Total	**0.0611**	**2.1196**	**0.4690**	**6.0400e-003**	**0.1368**	**6.4500e-003**	**0.1433**	**0.0376**	**6.1700e-003**	**0.0437**	**0.0000**	**595.2861**	**595.2861**	**0.0429**	**0.0000**	**596.3591**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0307	0.0000	0.0307	0.0142	0.0000	0.0142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0307**	**4.6400e-003**	**0.0353**	**0.0142**	**4.2700e-003**	**0.0184**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0609	2.1194	0.4669	6.0300e-003	0.1362	6.4500e-003	0.1426	0.0374	6.1700e-003	0.0436	0.0000	594.7121	594.7121	0.0429	0.0000	595.7848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.9000e-004	2.0900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5740	0.5740	2.0000e-005	0.0000	0.5744
Total	**0.0611**	**2.1196**	**0.4690**	**6.0400e-003**	**0.1368**	**6.4500e-003**	**0.1433**	**0.0376**	**6.1700e-003**	**0.0437**	**0.0000**	**595.2861**	**595.2861**	**0.0429**	**0.0000**	**596.3591**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2186	2.0047	1.9062	3.1000e-003		0.1102	0.1102		0.1037	0.1037	0.0000	266.3829	266.3829	0.0643	0.0000	267.9895
Total	**0.2186**	**2.0047**	**1.9062**	**3.1000e-003**		**0.1102**	**0.1102**		**0.1037**	**0.1037**	**0.0000**	**266.3829**	**266.3829**	**0.0643**	**0.0000**	**267.9895**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0308	1.0403	0.2629	2.6800e-003	0.0674	2.1200e-003	0.0695	0.0195	2.0300e-003	0.0215	0.0000	259.6816	259.6816	0.0167	0.0000	260.1001
Worker	0.1974	0.1465	1.6575	5.0300e-003	0.5211	3.9300e-003	0.5250	0.1384	3.6200e-003	0.1420	0.0000	454.3619	454.3619	0.0122	0.0000	454.6676
Total	**0.2281**	**1.1868**	**1.9205**	**7.7100e-003**	**0.5885**	**6.0500e-003**	**0.5945**	**0.1578**	**5.6500e-003**	**0.1635**	**0.0000**	**714.0435**	**714.0435**	**0.0290**	**0.0000**	**714.7677**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2186	2.0047	1.9062	3.1000e-003		0.1102	0.1102		0.1037	0.1037	0.0000	266.3826	266.3826	0.0643	0.0000	267.9892
Total	**0.2186**	**2.0047**	**1.9062**	**3.1000e-003**		**0.1102**	**0.1102**		**0.1037**	**0.1037**	**0.0000**	**266.3826**	**266.3826**	**0.0643**	**0.0000**	**267.9892**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0308	1.0403	0.2629	2.6800e-003	0.0674	2.1200e-003	0.0695	0.0195	2.0300e-003	0.0215	0.0000	259.6816	259.6816	0.0167	0.0000	260.1001
Worker	0.1974	0.1465	1.6575	5.0300e-003	0.5211	3.9300e-003	0.5250	0.1384	3.6200e-003	0.1420	0.0000	454.3619	454.3619	0.0122	0.0000	454.6676
Total	**0.2281**	**1.1868**	**1.9205**	**7.7100e-003**	**0.5885**	**6.0500e-003**	**0.5945**	**0.1578**	**5.6500e-003**	**0.1635**	**0.0000**	**714.0435**	**714.0435**	**0.0290**	**0.0000**	**714.7677**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7336	14.7336	4.6300e-003	0.0000	14.8493
Paving	2.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0101**	**0.0976**	**0.1103**	**1.7000e-004**		**5.2100e-003**	**5.2100e-003**		**4.8100e-003**	**4.8100e-003**	**0.0000**	**14.7336**	**14.7336**	**4.6300e-003**	**0.0000**	**14.8493**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.6000e-004	6.2800e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7220	1.7220	5.0000e-005	0.0000	1.7231
Total	**7.5000e-004**	**5.6000e-004**	**6.2800e-003**	**2.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7220**	**1.7220**	**5.0000e-005**	**0.0000**	**1.7231**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7335	14.7335	4.6300e-003	0.0000	14.8493
Paving	2.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0101**	**0.0976**	**0.1103**	**1.7000e-004**		**5.2100e-003**	**5.2100e-003**		**4.8100e-003**	**4.8100e-003**	**0.0000**	**14.7335**	**14.7335**	**4.6300e-003**	**0.0000**	**14.8493**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.6000e-004	6.2800e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7220	1.7220	5.0000e-005	0.0000	1.7231
Total	**7.5000e-004**	**5.6000e-004**	**6.2800e-003**	**2.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7220**	**1.7220**	**5.0000e-005**	**0.0000**	**1.7231**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2774					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-004	2.2900e-003	2.7300e-003	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.3830	0.3830	3.0000e-005	0.0000	0.3837
Total	**0.2777**	**2.2900e-003**	**2.7300e-003**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**	**0.0000**	**0.3830**	**0.3830**	**3.0000e-005**	**0.0000**	**0.3837**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.8000e-004	4.3400e-003	1.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1910	1.1910	3.0000e-005	0.0000	1.1918
Total	**5.2000e-004**	**3.8000e-004**	**4.3400e-003**	**1.0000e-005**	**1.3700e-003**	**1.0000e-005**	**1.3800e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.1910**	**1.1910**	**3.0000e-005**	**0.0000**	**1.1918**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2774					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-004	2.2900e-003	2.7300e-003	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.3830	0.3830	3.0000e-005	0.0000	0.3836
Total	**0.2777**	**2.2900e-003**	**2.7300e-003**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**	**0.0000**	**0.3830**	**0.3830**	**3.0000e-005**	**0.0000**	**0.3836**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.8000e-004	4.3400e-003	1.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1910	1.1910	3.0000e-005	0.0000	1.1918
Total	**5.2000e-004**	**3.8000e-004**	**4.3400e-003**	**1.0000e-005**	**1.3700e-003**	**1.0000e-005**	**1.3800e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.1910**	**1.1910**	**3.0000e-005**	**0.0000**	**1.1918**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3870					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0106	0.0136	2.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	1.9149	1.9149	1.2000e-004	0.0000	1.9181
Total	**1.3885**	**0.0106**	**0.0136**	**2.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**1.9149**	**1.9149**	**1.2000e-004**	**0.0000**	**1.9181**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4300e-003	1.7300e-003	0.0201	6.0000e-005	6.8300e-003	5.0000e-005	6.8800e-003	1.8100e-003	5.0000e-005	1.8600e-003	0.0000	5.7419	5.7419	1.4000e-004	0.0000	5.7455
Total	**2.4300e-003**	**1.7300e-003**	**0.0201**	**6.0000e-005**	**6.8300e-003**	**5.0000e-005**	**6.8800e-003**	**1.8100e-003**	**5.0000e-005**	**1.8600e-003**	**0.0000**	**5.7419**	**5.7419**	**1.4000e-004**	**0.0000**	**5.7455**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3870					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0106	0.0136	2.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	1.9149	1.9149	1.2000e-004	0.0000	1.9181
Total	**1.3885**	**0.0106**	**0.0136**	**2.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**1.9149**	**1.9149**	**1.2000e-004**	**0.0000**	**1.9181**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4300e-003	1.7300e-003	0.0201	6.0000e-005	6.8300e-003	5.0000e-005	6.8800e-003	1.8100e-003	5.0000e-005	1.8600e-003	0.0000	5.7419	5.7419	1.4000e-004	0.0000	5.7455
Total	**2.4300e-003**	**1.7300e-003**	**0.0201**	**6.0000e-005**	**6.8300e-003**	**5.0000e-005**	**6.8800e-003**	**1.8100e-003**	**5.0000e-005**	**1.8600e-003**	**0.0000**	**5.7419**	**5.7419**	**1.4000e-004**	**0.0000**	**5.7455**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2359	6.5583	15.4347	0.0568	4.7541	0.0458	4.7998	1.2738	0.0427	1.3165	0.0000	5,247.0262	5,247.0262	0.2575	0.0000	5,253.4645
Unmitigated	1.2359	6.5583	15.4347	0.0568	4.7541	0.0458	4.7998	1.2738	0.0427	1.3165	0.0000	5,247.0262	5,247.0262	0.2575	0.0000	5,253.4645

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,360.75	2,268.45	2080.30	7,885,078	7,885,078
Apartments Mid Rise	319.20	306.72	281.28	1,066,151	1,066,151
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	540.69	120.59	51.47	1,323,336	1,323,336
High Turnover (Sit Down Restaurant)	1,581.75	1,970.12	1640.09	2,242,624	2,242,624
Parking Lot	0.00	0.00	0.00		
Total	4,802.39	4,665.88	4,053.14	12,517,189	12,517,189

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Enclosed Parking Structure	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
General Office Building	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
High Turnover (Sit Down Restaurant)	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Burbank De Soto - Phase 1 - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,314.3786	2,314.3786	0.0547	0.0113	2,319.1152
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,314.3786	2,314.3786	0.0547	0.0113	2,319.1152
NaturalGas Mitigated	0.0421	0.3696	0.2260	2.3000e-003		0.0291	0.0291		0.0291	0.0291	0.0000	416.4990	416.4990	7.9800e-003	7.6400e-003	418.9741
NaturalGas Unmitigated	0.0421	0.3696	0.2260	2.3000e-003		0.0291	0.0291		0.0291	0.0291	0.0000	416.4990	416.4990	7.9800e-003	7.6400e-003	418.9741

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.89725e+006	0.0210	0.1796	0.0764	1.1500e-003		0.0145	0.0145		0.0145	0.0145	0.0000	207.9723	207.9723	3.9900e-003	3.8100e-003	209.2082
Apartments Mid Rise	526953	2.8400e-003	0.0243	0.0103	1.5000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	28.1202	28.1202	5.4000e-004	5.2000e-004	28.2873
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	510267	2.7500e-003	0.0250	0.0210	1.5000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	27.2298	27.2298	5.2000e-004	5.0000e-004	27.3916
High Turnover (Sit Down Restaurant)	2.87042e+006	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	153.1767	153.1767	2.9400e-003	2.8100e-003	154.0870
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0421**	**0.3696**	**0.2260**	**2.2900e-003**		**0.0291**	**0.0291**		**0.0291**	**0.0291**	**0.0000**	**416.4990**	**416.4990**	**7.9900e-003**	**7.6400e-003**	**418.9741**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	526953	2.8400e-003	0.0243	0.0103	1.5000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	28.1202	28.1202	5.4000e-004	5.2000e-004	28.2873
Apartments Mid Rise	3.89725e+006	0.0210	0.1796	0.0764	1.1500e-003		0.0145	0.0145		0.0145	0.0145	0.0000	207.9723	207.9723	3.9900e-003	3.8100e-003	209.2082
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	510267	2.7500e-003	0.0250	0.0210	1.5000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	27.2298	27.2298	5.2000e-004	5.0000e-004	27.3916
High Turnover (Sit Down Restaurant)	2.87042e+006	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	153.1767	153.1767	2.9400e-003	2.8100e-003	154.0870
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0421**	**0.3696**	**0.2260**	**2.2900e-003**		**0.0291**	**0.0291**		**0.0291**	**0.0291**	**0.0000**	**416.4990**	**416.4990**	**7.9900e-003**	**7.6400e-003**	**418.9741**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.43904e+006	801.4892	0.0189	3.9200e-003	803.1295
Apartments Mid Rise	194574	108.3704	2.5600e-003	5.3000e-004	108.5922
Enclosed Parking Structure	1.33358e+006	742.7550	0.0175	3.6300e-003	744.2751
General Office Building	636731	354.6346	8.3800e-003	1.7300e-003	355.3604
High Turnover (Sit Down Restaurant)	549057	305.8039	7.2200e-003	1.4900e-003	306.4297
Parking Lot	2380	1.3256	3.0000e-005	1.0000e-005	1.3283
Total		**2,314.3786**	**0.0547**	**0.0113**	**2,319.1152**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.43904e+006	801.4892	0.0189	3.9200e-003	803.1295
Apartments Mid Rise	194574	108.3704	2.5600e-003	5.3000e-004	108.5922
Enclosed Parking Structure	1.33358e+006	742.7550	0.0175	3.6300e-003	744.2751
General Office Building	636731	354.6346	8.3800e-003	1.7300e-003	355.3604
High Turnover (Sit Down Restaurant)	549057	305.8039	7.2200e-003	1.4900e-003	306.4297
Parking Lot	2380	1.3256	3.0000e-005	1.0000e-005	1.3283
Total		**2,314.3786**	**0.0547**	**0.0113**	**2,319.1152**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.7249	0.2571	9.2927	0.0133		0.7926	0.7926		0.7926	0.7926	85.6126	171.3233	256.9358	0.2619	5.8100e-003	265.2151
Unmitigated	4.7249	0.2571	9.2927	0.0133		0.7926	0.7926		0.7926	0.7926	85.6126	171.3233	256.9358	0.2619	5.8100e-003	265.2151

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1664					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7920					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.6400	0.2090	5.1237	0.0131		0.7696	0.7696		0.7696	0.7696	85.6126	164.5180	250.1305	0.2553	5.8100e-003	258.2450
Landscaping	0.1265	0.0481	4.1690	2.2000e-004		0.0230	0.0230		0.0230	0.0230	0.0000	6.8053	6.8053	6.5900e-003	0.0000	6.9701
Total	**4.7249**	**0.2571**	**9.2927**	**0.0133**		**0.7926**	**0.7926**		**0.7926**	**0.7926**	**85.6126**	**171.3233**	**256.9358**	**0.2619**	**5.8100e-003**	**265.2151**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1664					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7920					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.6400	0.2090	5.1237	0.0131		0.7696	0.7696		0.7696	0.7696	85.6126	164.5180	250.1305	0.2553	5.8100e-003	258.2450
Landscaping	0.1265	0.0481	4.1690	2.2000e-004		0.0230	0.0230		0.0230	0.0230	0.0000	6.8053	6.8053	6.5900e-003	0.0000	6.9701
Total	**4.7249**	**0.2571**	**9.2927**	**0.0133**		**0.7926**	**0.7926**		**0.7926**	**0.7926**	**85.6126**	**171.3233**	**256.9358**	**0.2619**	**5.8100e-003**	**265.2151**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	430.2461	1.2724	0.0319	471.5482
Unmitigated	430.2461	1.2724	0.0319	471.5482

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	26.2571 / 16.5534	301.1813	0.8625	0.0216	329.1906
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	8.71251 / 5.33992	98.9915	0.2862	7.1700e-003	108.2835
High Turnover (Sit Down Restaurant)	3.77596 / 0.241019	30.0733	0.1237	3.0500e-003	34.0742
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**430.2461**	**1.2724**	**0.0319**	**471.5482**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	26.2571 / 16.5534	301.1813	0.8625	0.0216	329.1906
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	8.71251 / 5.33992	98.9915	0.2862	7.1700e-003	108.2835
High Turnover (Sit Down Restaurant)	3.77596 / 0.241019	30.0733	0.1237	3.0500e-003	34.0742
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**430.2461**	**1.2724**	**0.0319**	**471.5482**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	76.9356	4.5468	0.0000	190.6047
Unmitigated	76.9356	4.5468	0.0000	190.6047

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	185.38	37.6305	2.2239	0.0000	93.2279
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	45.59	9.2544	0.5469	0.0000	22.9273
High Turnover (Sit Down Restaurant)	148.04	30.0508	1.7760	0.0000	74.4495
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**76.9356**	**4.5468**	**0.0000**	**190.6047**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	185.38	37.6305	2.2239	0.0000	93.2279
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	45.59	9.2544	0.5469	0.0000	22.9273
High Turnover (Sit Down Restaurant)	148.04	30.0508	1.7760	0.0000	74.4495
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**76.9356**	**4.5468**	**0.0000**	**190.6047**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto - Phase 1

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	49.02	1000sqft	0.31	49,017.00	0
Enclosed Parking Structure	588.00	Space	5.29	235,200.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
High Turnover (Sit Down Restaurant)	12.44	1000sqft	0.08	12,439.00	0
Apartments Mid Rise	355.00	Dwelling Unit	2.48	387,357.00	1015
Apartments Mid Rise	48.00	Dwelling Unit	0.27	42,781.00	137

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types and sizes.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about changes to offroad equipment unit amounts and usage hours.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about Acres of Grading.

Architectural Coating - Consistent with IS/MND's model.

Area Coating - Consistent with IS/MND's model.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	14,520.00	14,568.00
tblAreaCoating	Area_Parking	14520	14568
tblGrading	MaterialExported	0.00	79,241.00
tblLandUse	LandUseSquareFeet	49,020.00	49,017.00
tblLandUse	LandUseSquareFeet	12,440.00	12,439.00
tblLandUse	LandUseSquareFeet	355,000.00	387,357.00
tblLandUse	LandUseSquareFeet	48,000.00	42,781.00
tblLandUse	LotAcreage	1.13	0.31
tblLandUse	LotAcreage	0.29	0.08
tblLandUse	LotAcreage	9.34	2.48
tblLandUse	LotAcreage	1.26	0.27
tblTripsAndVMT	HaulingTripNumber	359.00	920.00
tblTripsAndVMT	HaulingTripNumber	9,905.00	15,849.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1572	46.0625	25.0296	0.0763	18.2675	2.1990	20.4664	9.9840	2.0230	12.0071	0.0000	7,794.3198	7,794.3198	1.3370	0.0000	7,827.7447
2021	185.4940	538.4469	129.8868	1.5509	42.4425	2.7625	45.2050	13.0630	2.6003	15.6633	0.0000	168,117.8898	168,117.8898	12.5675	0.0000	168,432.0765
2022	185.4582	1.6132	4.6955	0.0119	0.9277	0.0884	1.0161	0.2460	0.0879	0.3339	0.0000	1,167.2765	1,167.2765	0.0407	0.0000	1,168.2942
Maximum	**185.4940**	**538.4469**	**129.8868**	**1.5509**	**42.4425**	**2.7625**	**45.2050**	**13.0630**	**2.6003**	**15.6633**	**0.0000**	**168,117.8898**	**168,117.8898**	**12.5675**	**0.0000**	**168,432.0765**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1572	46.0625	25.0296	0.0763	18.2675	2.1990	20.4664	9.9840	2.0230	12.0071	0.0000	7,794.3198	7,794.3198	1.3370	0.0000	7,827.7447
2021	185.4940	538.4469	129.8868	1.5509	42.4425	2.7625	45.2050	13.0630	2.6003	15.6633	0.0000	168,117.8898	168,117.8898	12.5675	0.0000	168,432.0765
2022	185.4582	1.6132	4.6955	0.0119	0.9277	0.0884	1.0161	0.2460	0.0879	0.3339	0.0000	1,167.2765	1,167.2765	0.0407	0.0000	1,168.2942
Maximum	**185.4940**	**538.4469**	**129.8868**	**1.5509**	**42.4425**	**2.7625**	**45.2050**	**13.0630**	**2.6003**	**15.6633**	**0.0000**	**168,117.8898**	**168,117.8898**	**12.5675**	**0.0000**	**168,432.0765**

Burbank De Soto - Phase 1 - South Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	222.9439	17.1076	443.2447	1.0474		61.7531	61.7531		61.7531	61.7531	7,549.7362	14,568.0125	22,117.7487	22.5729	0.5124	22,834.7734
Energy	0.2306	2.0251	1.2381	0.0126		0.1593	0.1593		0.1593	0.1593		2,515.6800	2,515.6800	0.0482	0.0461	2,530.6294
Mobile	8.0204	38.1851	96.2012	0.3528	28.8724	0.2732	29.1456	7.7243	0.2548	7.9790		35,913.6121	35,913.6121	1.7080		35,956.3116
Total	**231.1949**	**57.3178**	**540.6841**	**1.4128**	**28.8724**	**62.1856**	**91.0581**	**7.7243**	**62.1672**	**69.8915**	**7,549.7362**	**52,997.3045**	**60,547.0408**	**24.3291**	**0.5585**	**61,321.7145**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	222.9439	17.1076	443.2447	1.0474		61.7531	61.7531		61.7531	61.7531	7,549.7362	14,568.0125	22,117.7487	22.5729	0.5124	22,834.7734
Energy	0.2306	2.0251	1.2381	0.0126		0.1593	0.1593		0.1593	0.1593		2,515.6800	2,515.6800	0.0482	0.0461	2,530.6294
Mobile	8.0204	38.1851	96.2012	0.3528	28.8724	0.2732	29.1456	7.7243	0.2548	7.9790		35,913.6121	35,913.6121	1.7080		35,956.3116
Total	**231.1949**	**57.3178**	**540.6841**	**1.4128**	**28.8724**	**62.1856**	**91.0581**	**7.7243**	**62.1672**	**69.8915**	**7,549.7362**	**52,997.3045**	**60,547.0408**	**24.3291**	**0.5585**	**61,321.7145**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2020	12/28/2020	5	20	
2	Site Preparation	Site Preparation	12/29/2020	1/4/2021	5	5	
3	Grading	Grading	1/5/2021	1/14/2021	5	8	
4	Building Construction	Building Construction	1/15/2021	12/2/2021	5	230	
5	Paving	Paving	12/3/2021	12/28/2021	5	18	
6	Architectural Coating	Architectural Coating	12/29/2021	1/21/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 5.44

Residential Indoor: 871,029; Residential Outdoor: 290,343; Non-Residential Indoor: 92,184; Non-Residential Outdoor: 30,728; Striped Parking Area: 14,568 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto - Phase 1 - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	920.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	15,849.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	413.00	93.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	83.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8808	0.0000	3.8808	0.5876	0.0000	0.5876			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**3.8808**	**1.6587**	**5.5395**	**0.5876**	**1.5419**	**2.1294**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3661	12.8160	2.6651	0.0357	0.8034	0.0415	0.8449	0.2202	0.0397	0.2598		3,875.0394	3,875.0394	0.2741		3,881.8920
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	**0.4334**	**12.8615**	**3.2764**	**0.0374**	**0.9711**	**0.0428**	**1.0139**	**0.2646**	**0.0409**	**0.3055**		**4,046.6149**	**4,046.6149**	**0.2790**		**4,053.5911**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8808	0.0000	3.8808	0.5876	0.0000	0.5876			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**3.8808**	**1.6587**	**5.5395**	**0.5876**	**1.5419**	**2.1294**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3661	12.8160	2.6651	0.0357	0.8034	0.0415	0.8449	0.2202	0.0397	0.2598		3,875.0394	3,875.0394	0.2741		3,881.8920
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	**0.4334**	**12.8615**	**3.2764**	**0.0374**	**0.9711**	**0.0428**	**1.0139**	**0.2646**	**0.0409**	**0.3055**		**4,046.6149**	**4,046.6149**	**0.2790**		**4,053.5911**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0807	0.0546	0.7336	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.8905	205.8905	5.9300e-003		206.0389
Total	**0.0807**	**0.0546**	**0.7336**	**2.0700e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**205.8905**	**205.8905**	**5.9300e-003**		**206.0389**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0807	0.0546	0.7336	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.8905	205.8905	5.9300e-003		206.0389
Total	**0.0807**	**0.0546**	**0.7336**	**2.0700e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**205.8905**	**205.8905**	**5.9300e-003**		**206.0389**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759
Total	**0.0753**	**0.0491**	**0.6758**	**2.0000e-003**	**0.2012**	**1.4900e-003**	**0.2027**	**0.0534**	**1.3700e-003**	**0.0547**		**199.2417**	**199.2417**	**5.3700e-003**		**199.3759**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0753	0.0491	0.6758	2.0000e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		199.2417	199.2417	5.3700e-003		199.3759
Total	**0.0753**	**0.0491**	**0.6758**	**2.0000e-003**	**0.2012**	**1.4900e-003**	**0.2027**	**0.0534**	**1.3700e-003**	**0.0547**		**199.2417**	**199.2417**	**5.3700e-003**		**199.3759**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6725	0.0000	7.6725	3.5371	0.0000	3.5371			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**7.6725**	**1.1599**	**8.8324**	**3.5371**	**1.0671**	**4.6042**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	15.0566	513.6692	113.4661	1.5196	34.6023	1.6013	36.2037	9.4815	1.5320	11.0135		165,079.9266	165,079.9266	11.6342		165,370.7804
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	**15.1194**	**513.7102**	**114.0293**	**1.5213**	**34.7700**	**1.6026**	**36.3726**	**9.5259**	**1.5332**	**11.0591**		**165,245.9613**	**165,245.9613**	**11.6386**		**165,536.9270**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6725	0.0000	7.6725	3.5371	0.0000	3.5371			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**7.6725**	**1.1599**	**8.8324**	**3.5371**	**1.0671**	**4.6042**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	15.0566	513.6692	113.4661	1.5196	34.6023	1.6013	36.2037	9.4815	1.5320	11.0135		165,079.9266	165,079.9266	11.6342		165,370.7804
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	**15.1194**	**513.7102**	**114.0293**	**1.5213**	**34.7700**	**1.6026**	**36.3726**	**9.5259**	**1.5332**	**11.0591**		**165,245.9613**	**165,245.9613**	**11.6386**		**165,536.9270**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2617	8.9064	2.1626	0.0235	0.5951	0.0182	0.6133	0.1713	0.0174	0.1887		2,517.9169	2,517.9169	0.1557		2,521.8094
Worker	1.7285	1.1274	15.5069	0.0459	4.6164	0.0342	4.6505	1.2243	0.0315	1.2558		4,571.4899	4,571.4899	0.1232		4,574.5702
Total	**1.9901**	**10.0337**	**17.6695**	**0.0694**	**5.2115**	**0.0523**	**5.2638**	**1.3956**	**0.0489**	**1.4445**		**7,089.4068**	**7,089.4068**	**0.2789**		**7,096.3797**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2617	8.9064	2.1626	0.0235	0.5951	0.0182	0.6133	0.1713	0.0174	0.1887		2,517.9169	2,517.9169	0.1557		2,521.8094
Worker	1.7285	1.1274	15.5069	0.0459	4.6164	0.0342	4.6505	1.2243	0.0315	1.2558		4,571.4899	4,571.4899	0.1232		4,574.5702
Total	**1.9901**	**10.0337**	**17.6695**	**0.0694**	**5.2115**	**0.0523**	**5.2638**	**1.3956**	**0.0489**	**1.4445**		**7,089.4068**	**7,089.4068**	**0.2789**		**7,096.3797**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1158**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288
Total	**0.0837**	**0.0546**	**0.7509**	**2.2200e-003**	**0.2236**	**1.6500e-003**	**0.2252**	**0.0593**	**1.5200e-003**	**0.0608**		**221.3797**	**221.3797**	**5.9700e-003**		**221.5288**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1158**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288
Total	**0.0837**	**0.0546**	**0.7509**	**2.2200e-003**	**0.2236**	**1.6500e-003**	**0.2252**	**0.0593**	**1.5200e-003**	**0.0608**		**221.3797**	**221.3797**	**5.9700e-003**		**221.5288**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	184.9278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**185.1467**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3474	0.2266	3.1164	9.2200e-003	0.9277	6.8700e-003	0.9346	0.2460	6.3200e-003	0.2524		918.7256	918.7256	0.0248		919.3446
Total	**0.3474**	**0.2266**	**3.1164**	**9.2200e-003**	**0.9277**	**6.8700e-003**	**0.9346**	**0.2460**	**6.3200e-003**	**0.2524**		**918.7256**	**918.7256**	**0.0248**		**919.3446**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	184.9278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**185.1467**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3474	0.2266	3.1164	9.2200e-003	0.9277	6.8700e-003	0.9346	0.2460	6.3200e-003	0.2524		918.7256	918.7256	0.0248		919.3446
Total	**0.3474**	**0.2266**	**3.1164**	**9.2200e-003**	**0.9277**	**6.8700e-003**	**0.9346**	**0.2460**	**6.3200e-003**	**0.2524**		**918.7256**	**918.7256**	**0.0248**		**919.3446**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	184.9278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**185.1323**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3259	0.2047	2.8819	8.8900e-003	0.9277	6.6700e-003	0.9344	0.2460	6.1400e-003	0.2522		885.8284	885.8284	0.0224		886.3881
Total	**0.3259**	**0.2047**	**2.8819**	**8.8900e-003**	**0.9277**	**6.6700e-003**	**0.9344**	**0.2460**	**6.1400e-003**	**0.2522**		**885.8284**	**885.8284**	**0.0224**		**886.3881**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	184.9278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**185.1323**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3259	0.2047	2.8819	8.8900e-003	0.9277	6.6700e-003	0.9344	0.2460	6.1400e-003	0.2522		885.8284	885.8284	0.0224		886.3881
Total	**0.3259**	**0.2047**	**2.8819**	**8.8900e-003**	**0.9277**	**6.6700e-003**	**0.9344**	**0.2460**	**6.1400e-003**	**0.2522**		**885.8284**	**885.8284**	**0.0224**		**886.3881**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.0204	38.1851	96.2012	0.3528	28.8724	0.2732	29.1456	7.7243	0.2548	7.9790		35,913.6121	35,913.6121	1.7080		35,956.3116
Unmitigated	8.0204	38.1851	96.2012	0.3528	28.8724	0.2732	29.1456	7.7243	0.2548	7.9790		35,913.6121	35,913.6121	1.7080		35,956.3116

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,360.75	2,268.45	2080.30	7,885,078	7,885,078
Apartments Mid Rise	319.20	306.72	281.28	1,066,151	1,066,151
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	540.69	120.59	51.47	1,323,336	1,323,336
High Turnover (Sit Down Restaurant)	1,581.75	1,970.12	1640.09	2,242,624	2,242,624
Parking Lot	0.00	0.00	0.00		
Total	4,802.39	4,665.88	4,053.14	12,517,189	12,517,189

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Enclosed Parking Structure	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
General Office Building	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
High Turnover (Sit Down Restaurant)	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Burbank De Soto - Phase 1 - South Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2306	2.0251	1.2381	0.0126		0.1593	0.1593		0.1593	0.1593		2,515.6800	2,515.6800	0.0482	0.0461	2,530.6294
NaturalGas Unmitigated	0.2306	2.0251	1.2381	0.0126		0.1593	0.1593		0.1593	0.1593		2,515.6800	2,515.6800	0.0482	0.0461	2,530.6294

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	10677.4	0.1152	0.9840	0.4187	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.1656	1,256.1656	0.0241	0.0230	1,263.6304
Apartments Mid Rise	1443.71	0.0156	0.1331	0.0566	8.5000e-004		0.0108	0.0108		0.0108	0.0108		169.8478	169.8478	3.2600e-003	3.1100e-003	170.8571
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1397.99	0.0151	0.1371	0.1151	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.4696	164.4696	3.1500e-003	3.0200e-003	165.4470
High Turnover (Sit Down Restaurant)	7864.17	0.0848	0.7710	0.6476	4.6300e-003		0.0586	0.0586		0.0586	0.0586		925.1970	925.1970	0.0177	0.0170	930.6950
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2306**	**2.0251**	**1.2381**	**0.0126**		**0.1593**	**0.1593**		**0.1593**	**0.1593**		**2,515.6800**	**2,515.6800**	**0.0482**	**0.0461**	**2,530.6294**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1.44371	0.0156	0.1331	0.0566	8.5000e-004		0.0108	0.0108		0.0108	0.0108		169.8478	169.8478	3.2600e-003	3.1100e-003	170.8571
Apartments Mid Rise	10.6774	0.1152	0.9840	0.4187	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.1656	1,256.1656	0.0241	0.0230	1,263.6304
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.39799	0.0151	0.1371	0.1151	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.4696	164.4696	3.1500e-003	3.0200e-003	165.4470
High Turnover (Sit Down Restaurant)	7.86417	0.0848	0.7710	0.6476	4.6300e-003		0.0586	0.0586		0.0586	0.0586		925.1970	925.1970	0.0177	0.0170	930.6950
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2306**	**2.0251**	**1.2381**	**0.0126**		**0.1593**	**0.1593**		**0.1593**	**0.1593**		**2,515.6800**	**2,515.6800**	**0.0482**	**0.0461**	**2,530.6294**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	222.9439	17.1076	443.2447	1.0474		61.7531	61.7531		61.7531	61.7531	7,549.7362	14,568.0125	22,117.7487	22.5729	0.5124	22,834.7734
Unmitigated	222.9439	17.1076	443.2447	1.0474		61.7531	61.7531		61.7531	61.7531	7,549.7362	14,568.0125	22,117.7487	22.5729	0.5124	22,834.7734

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9120					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.8193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	211.2010	16.7232	409.8928	1.0457		61.5690	61.5690		61.5690	61.5690	7,549.7362	14,508.0000	22,057.7362	22.5148	0.5124	22,773.3075
Landscaping	1.0117	0.3845	33.3520	1.7600e-003		0.1841	0.1841		0.1841	0.1841		60.0125	60.0125	0.0581		61.4660
Total	**222.9439**	**17.1076**	**443.2447**	**1.0474**		**61.7531**	**61.7531**		**61.7531**	**61.7531**	**7,549.7362**	**14,568.0125**	**22,117.7487**	**22.5729**	**0.5124**	**22,834.7734**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9120					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.8193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	211.2010	16.7232	409.8928	1.0457		61.5690	61.5690		61.5690	61.5690	7,549.7362	14,508.0000	22,057.7362	22.5148	0.5124	22,773.3075
Landscaping	1.0117	0.3845	33.3520	1.7600e-003		0.1841	0.1841		0.1841	0.1841		60.0125	60.0125	0.0581		61.4660
Total	**222.9439**	**17.1076**	**443.2447**	**1.0474**		**61.7531**	**61.7531**		**61.7531**	**61.7531**	**7,549.7362**	**14,568.0125**	**22,117.7487**	**22.5729**	**0.5124**	**22,834.7734**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto - Phase 1

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	49.02	1000sqft	0.31	49,017.00	0
Enclosed Parking Structure	588.00	Space	5.29	235,200.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
High Turnover (Sit Down Restaurant)	12.44	1000sqft	0.08	12,439.00	0
Apartments Mid Rise	355.00	Dwelling Unit	2.48	387,357.00	1015
Apartments Mid Rise	48.00	Dwelling Unit	0.27	42,781.00	137

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types and sizes.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about changes to offroad equipment unit amounts and usage hours.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about Acres of Grading.

Architectural Coating - Consistent with IS/MND's model.

Area Coating - Consistent with IS/MND's model.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	14,520.00	14,568.00
tblAreaCoating	Area_Parking	14520	14568
tblGrading	MaterialExported	0.00	79,241.00
tblLandUse	LandUseSquareFeet	49,020.00	49,017.00
tblLandUse	LandUseSquareFeet	12,440.00	12,439.00
tblLandUse	LandUseSquareFeet	355,000.00	387,357.00
tblLandUse	LandUseSquareFeet	48,000.00	42,781.00
tblLandUse	LotAcreage	1.13	0.31
tblLandUse	LotAcreage	0.29	0.08
tblLandUse	LotAcreage	9.34	2.48
tblLandUse	LotAcreage	1.26	0.27
tblTripsAndVMT	HaulingTripNumber	359.00	920.00
tblTripsAndVMT	HaulingTripNumber	9,905.00	15,849.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1653	46.2350	25.1540	0.0755	18.2675	2.1990	20.4664	9.9840	2.0230	12.0071	0.0000	7,717.4907	7,717.4907	1.3472	0.0000	7,751.1716
2021	185.5294	544.7831	137.2543	1.5246	42.4425	2.7864	45.2289	13.0630	2.6232	15.6862	0.0000	165,273.1699	165,273.1699	13.0025	0.0000	165,598.2329
2022	185.4923	1.6332	4.4176	0.0113	0.9277	0.0884	1.0161	0.2460	0.0879	0.3339	0.0000	1,112.2605	1,112.2605	0.0393	0.0000	1,113.2419
Maximum	**185.5294**	**544.7831**	**137.2543**	**1.5246**	**42.4425**	**2.7864**	**45.2289**	**13.0630**	**2.6232**	**15.6862**	**0.0000**	**165,273.1699**	**165,273.1699**	**13.0025**	**0.0000**	**165,598.2329**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1653	46.2350	25.1540	0.0755	18.2675	2.1990	20.4664	9.9840	2.0230	12.0071	0.0000	7,717.4907	7,717.4907	1.3472	0.0000	7,751.1716
2021	185.5294	544.7831	137.2543	1.5246	42.4425	2.7864	45.2289	13.0630	2.6232	15.6862	0.0000	165,273.1699	165,273.1699	13.0025	0.0000	165,598.2329
2022	185.4923	1.6332	4.4176	0.0113	0.9277	0.0884	1.0161	0.2460	0.0879	0.3339	0.0000	1,112.2605	1,112.2605	0.0393	0.0000	1,113.2419
Maximum	**185.5294**	**544.7831**	**137.2543**	**1.5246**	**42.4425**	**2.7864**	**45.2289**	**13.0630**	**2.6232**	**15.6862**	**0.0000**	**165,273.1699**	**165,273.1699**	**13.0025**	**0.0000**	**165,598.2329**

Burbank De Soto - Phase 1 - South Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	222.9439	17.1076	443.2447	1.0474		61.7531	61.7531		61.7531	61.7531	7,549.7362	14,568.0125	22,117.7487	22.5729	0.5124	22,834.7734
Energy	0.2306	2.0251	1.2381	0.0126		0.1593	0.1593		0.1593	0.1593		2,515.6800	2,515.6800	0.0482	0.0461	2,530.6294
Mobile	7.6884	38.8195	91.3579	0.3344	28.8724	0.2750	29.1474	7.7243	0.2565	7.9807		34,065.7379	34,065.7379	1.7155		34,108.6242
Total	**230.8629**	**57.9522**	**535.8407**	**1.3944**	**28.8724**	**62.1874**	**91.0599**	**7.7243**	**62.1689**	**69.8932**	**7,549.7362**	**51,149.4303**	**58,699.1666**	**24.3366**	**0.5585**	**59,474.0271**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	222.9439	17.1076	443.2447	1.0474		61.7531	61.7531		61.7531	61.7531	7,549.7362	14,568.0125	22,117.7487	22.5729	0.5124	22,834.7734
Energy	0.2306	2.0251	1.2381	0.0126		0.1593	0.1593		0.1593	0.1593		2,515.6800	2,515.6800	0.0482	0.0461	2,530.6294
Mobile	7.6884	38.8195	91.3579	0.3344	28.8724	0.2750	29.1474	7.7243	0.2565	7.9807		34,065.7379	34,065.7379	1.7155		34,108.6242
Total	**230.8629**	**57.9522**	**535.8407**	**1.3944**	**28.8724**	**62.1874**	**91.0599**	**7.7243**	**62.1689**	**69.8932**	**7,549.7362**	**51,149.4303**	**58,699.1666**	**24.3366**	**0.5585**	**59,474.0271**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2020	12/28/2020	5	20	
2	Site Preparation	Site Preparation	12/29/2020	1/4/2021	5	5	
3	Grading	Grading	1/5/2021	1/14/2021	5	8	
4	Building Construction	Building Construction	1/15/2021	12/2/2021	5	230	
5	Paving	Paving	12/3/2021	12/28/2021	5	18	
6	Architectural Coating	Architectural Coating	12/29/2021	1/21/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 5.44

Residential Indoor: 871,029; Residential Outdoor: 290,343; Non-Residential Indoor: 92,184; Non-Residential Outdoor: 30,728; Striped Parking Area: 14,568 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto - Phase 1 - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	920.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	15,849.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	413.00	93.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	83.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8808	0.0000	3.8808	0.5876	0.0000	0.5876			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**3.8808**	**1.6587**	**5.5395**	**0.5876**	**1.5419**	**2.1294**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3757	12.9840	2.8464	0.0351	0.8034	0.0421	0.8455	0.2202	0.0403	0.2604		3,808.8581	3,808.8581	0.2847		3,815.9745
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	**0.4497**	**13.0340**	**3.4008**	**0.0367**	**0.9711**	**0.0434**	**1.0145**	**0.2646**	**0.0415**	**0.3061**		**3,969.7858**	**3,969.7858**	**0.2893**		**3,977.0180**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8808	0.0000	3.8808	0.5876	0.0000	0.5876			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**3.8808**	**1.6587**	**5.5395**	**0.5876**	**1.5419**	**2.1294**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3757	12.9840	2.8464	0.0351	0.8034	0.0421	0.8455	0.2202	0.0403	0.2604		3,808.8581	3,808.8581	0.2847		3,815.9745
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	**0.4497**	**13.0340**	**3.4008**	**0.0367**	**0.9711**	**0.0434**	**1.0145**	**0.2646**	**0.0415**	**0.3061**		**3,969.7858**	**3,969.7858**	**0.2893**		**3,977.0180**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0600	0.6653	1.9400e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		193.1132	193.1132	5.5600e-003		193.2522
Total	**0.0888**	**0.0600**	**0.6653**	**1.9400e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**193.1132**	**193.1132**	**5.5600e-003**		**193.2522**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0600	0.6653	1.9400e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		193.1132	193.1132	5.5600e-003		193.2522
Total	**0.0888**	**0.0600**	**0.6653**	**1.9400e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**193.1132**	**193.1132**	**5.5600e-003**		**193.2522**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003		186.9929
Total	**0.0830**	**0.0540**	**0.6118**	**1.8800e-003**	**0.2012**	**1.4900e-003**	**0.2027**	**0.0534**	**1.3700e-003**	**0.0547**		**186.8672**	**186.8672**	**5.0300e-003**		**186.9929**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0830	0.0540	0.6118	1.8800e-003	0.2012	1.4900e-003	0.2027	0.0534	1.3700e-003	0.0547		186.8672	186.8672	5.0300e-003		186.9929
Total	**0.0830**	**0.0540**	**0.6118**	**1.8800e-003**	**0.2012**	**1.4900e-003**	**0.2027**	**0.0534**	**1.3700e-003**	**0.0547**		**186.8672**	**186.8672**	**5.0300e-003**		**186.9929**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6725	0.0000	7.6725	3.5371	0.0000	3.5371			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**7.6725**	**1.1599**	**8.8324**	**3.5371**	**1.0671**	**4.6042**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	15.4449	520.0015	120.8870	1.4934	34.6023	1.6253	36.2276	9.4815	1.5549	11.0364		162,245.5187	162,245.5187	12.0695		162,547.2560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	**15.5141**	**520.0464**	**121.3968**	**1.4950**	**34.7700**	**1.6265**	**36.3965**	**9.5259**	**1.5561**	**11.0820**		**162,401.2414**	**162,401.2414**	**12.0737**		**162,703.0834**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6725	0.0000	7.6725	3.5371	0.0000	3.5371			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**7.6725**	**1.1599**	**8.8324**	**3.5371**	**1.0671**	**4.6042**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	15.4449	520.0015	120.8870	1.4934	34.6023	1.6253	36.2276	9.4815	1.5549	11.0364		162,245.5187	162,245.5187	12.0695		162,547.2560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	**15.5141**	**520.0464**	**121.3968**	**1.4950**	**34.7700**	**1.6265**	**36.3965**	**9.5259**	**1.5561**	**11.0820**		**162,401.2414**	**162,401.2414**	**12.0737**		**162,703.0834**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2749	8.8854	2.4039	0.0229	0.5951	0.0188	0.6138	0.1713	0.0179	0.1893		2,449.3762	2,449.3762	0.1664		2,453.5362
Worker	1.9046	1.2381	14.0365	0.0430	4.6164	0.0342	4.6505	1.2243	0.0315	1.2558		4,287.5643	4,287.5643	0.1153		4,290.4472
Total	**2.1795**	**10.1235**	**16.4404**	**0.0659**	**5.2115**	**0.0529**	**5.2644**	**1.3956**	**0.0494**	**1.4450**		**6,736.9404**	**6,736.9404**	**0.2817**		**6,743.9833**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2749	8.8854	2.4039	0.0229	0.5951	0.0188	0.6138	0.1713	0.0179	0.1893		2,449.3762	2,449.3762	0.1664		2,453.5362
Worker	1.9046	1.2381	14.0365	0.0430	4.6164	0.0342	4.6505	1.2243	0.0315	1.2558		4,287.5643	4,287.5643	0.1153		4,290.4472
Total	**2.1795**	**10.1235**	**16.4404**	**0.0659**	**5.2115**	**0.0529**	**5.2644**	**1.3956**	**0.0494**	**1.4450**		**6,736.9404**	**6,736.9404**	**0.2817**		**6,743.9833**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1158**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698
Total	**0.0922**	**0.0600**	**0.6797**	**2.0800e-003**	**0.2236**	**1.6500e-003**	**0.2252**	**0.0593**	**1.5200e-003**	**0.0608**		**207.6302**	**207.6302**	**5.5800e-003**		**207.7698**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1158**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698
Total	**0.0922**	**0.0600**	**0.6797**	**2.0800e-003**	**0.2236**	**1.6500e-003**	**0.2252**	**0.0593**	**1.5200e-003**	**0.0608**		**207.6302**	**207.6302**	**5.5800e-003**		**207.7698**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	184.9278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**185.1467**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3828	0.2488	2.8209	8.6500e-003	0.9277	6.8700e-003	0.9346	0.2460	6.3200e-003	0.2524		861.6655	861.6655	0.0232		862.2448
Total	**0.3828**	**0.2488**	**2.8209**	**8.6500e-003**	**0.9277**	**6.8700e-003**	**0.9346**	**0.2460**	**6.3200e-003**	**0.2524**		**861.6655**	**861.6655**	**0.0232**		**862.2448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	184.9278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**185.1467**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3828	0.2488	2.8209	8.6500e-003	0.9277	6.8700e-003	0.9346	0.2460	6.3200e-003	0.2524		861.6655	861.6655	0.0232		862.2448
Total	**0.3828**	**0.2488**	**2.8209**	**8.6500e-003**	**0.9277**	**6.8700e-003**	**0.9346**	**0.2460**	**6.3200e-003**	**0.2524**		**861.6655**	**861.6655**	**0.0232**		**862.2448**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	184.9278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**185.1323**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3600	0.2247	2.6040	8.3300e-003	0.9277	6.6700e-003	0.9344	0.2460	6.1400e-003	0.2522		830.8124	830.8124	0.0209		831.3357
Total	**0.3600**	**0.2247**	**2.6040**	**8.3300e-003**	**0.9277**	**6.6700e-003**	**0.9344**	**0.2460**	**6.1400e-003**	**0.2522**		**830.8124**	**830.8124**	**0.0209**		**831.3357**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	184.9278					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**185.1323**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3600	0.2247	2.6040	8.3300e-003	0.9277	6.6700e-003	0.9344	0.2460	6.1400e-003	0.2522		830.8124	830.8124	0.0209		831.3357
Total	**0.3600**	**0.2247**	**2.6040**	**8.3300e-003**	**0.9277**	**6.6700e-003**	**0.9344**	**0.2460**	**6.1400e-003**	**0.2522**		**830.8124**	**830.8124**	**0.0209**		**831.3357**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.6884	38.8195	91.3579	0.3344	28.8724	0.2750	29.1474	7.7243	0.2565	7.9807		34,065.7379	34,065.7379	1.7155		34,108.6242
Unmitigated	7.6884	38.8195	91.3579	0.3344	28.8724	0.2750	29.1474	7.7243	0.2565	7.9807		34,065.7379	34,065.7379	1.7155		34,108.6242

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,360.75	2,268.45	2080.30	7,885,078	7,885,078
Apartments Mid Rise	319.20	306.72	281.28	1,066,151	1,066,151
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	540.69	120.59	51.47	1,323,336	1,323,336
High Turnover (Sit Down Restaurant)	1,581.75	1,970.12	1640.09	2,242,624	2,242,624
Parking Lot	0.00	0.00	0.00		
Total	4,802.39	4,665.88	4,053.14	12,517,189	12,517,189

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Enclosed Parking Structure	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
General Office Building	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
High Turnover (Sit Down Restaurant)	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Burbank De Soto - Phase 1 - South Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2306	2.0251	1.2381	0.0126		0.1593	0.1593		0.1593	0.1593		2,515.6800	2,515.6800	0.0482	0.0461	2,530.6294
NaturalGas Unmitigated	0.2306	2.0251	1.2381	0.0126		0.1593	0.1593		0.1593	0.1593		2,515.6800	2,515.6800	0.0482	0.0461	2,530.6294

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	10677.4	0.1152	0.9840	0.4187	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.1656	1,256.1656	0.0241	0.0230	1,263.6304
Apartments Mid Rise	1443.71	0.0156	0.1331	0.0566	8.5000e-004		0.0108	0.0108		0.0108	0.0108		169.8478	169.8478	3.2600e-003	3.1100e-003	170.8571
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1397.99	0.0151	0.1371	0.1151	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.4696	164.4696	3.1500e-003	3.0200e-003	165.4470
High Turnover (Sit Down Restaurant)	7864.17	0.0848	0.7710	0.6476	4.6300e-003		0.0586	0.0586		0.0586	0.0586		925.1970	925.1970	0.0177	0.0170	930.6950
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2306**	**2.0251**	**1.2381**	**0.0126**		**0.1593**	**0.1593**		**0.1593**	**0.1593**		**2,515.6800**	**2,515.6800**	**0.0482**	**0.0461**	**2,530.6294**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1.44371	0.0156	0.1331	0.0566	8.5000e-004		0.0108	0.0108		0.0108	0.0108		169.8478	169.8478	3.2600e-003	3.1100e-003	170.8571
Apartments Mid Rise	10.6774	0.1152	0.9840	0.4187	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.1656	1,256.1656	0.0241	0.0230	1,263.6304
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.39799	0.0151	0.1371	0.1151	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.4696	164.4696	3.1500e-003	3.0200e-003	165.4470
High Turnover (Sit Down Restaurant)	7.86417	0.0848	0.7710	0.6476	4.6300e-003		0.0586	0.0586		0.0586	0.0586		925.1970	925.1970	0.0177	0.0170	930.6950
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2306**	**2.0251**	**1.2381**	**0.0126**		**0.1593**	**0.1593**		**0.1593**	**0.1593**		**2,515.6800**	**2,515.6800**	**0.0482**	**0.0461**	**2,530.6294**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	222.9439	17.1076	443.2447	1.0474		61.7531	61.7531		61.7531	61.7531	7,549.7362	14,568.0125	22,117.7487	22.5729	0.5124	22,834.7734
Unmitigated	222.9439	17.1076	443.2447	1.0474		61.7531	61.7531		61.7531	61.7531	7,549.7362	14,568.0125	22,117.7487	22.5729	0.5124	22,834.7734

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9120					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.8193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	211.2010	16.7232	409.8928	1.0457		61.5690	61.5690		61.5690	61.5690	7,549.7362	14,508.0000	22,057.7362	22.5148	0.5124	22,773.3075
Landscaping	1.0117	0.3845	33.3520	1.7600e-003		0.1841	0.1841		0.1841	0.1841		60.0125	60.0125	0.0581		61.4660
Total	**222.9439**	**17.1076**	**443.2447**	**1.0474**		**61.7531**	**61.7531**		**61.7531**	**61.7531**	**7,549.7362**	**14,568.0125**	**22,117.7487**	**22.5729**	**0.5124**	**22,834.7734**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9120					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.8193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	211.2010	16.7232	409.8928	1.0457		61.5690	61.5690		61.5690	61.5690	7,549.7362	14,508.0000	22,057.7362	22.5148	0.5124	22,773.3075
Landscaping	1.0117	0.3845	33.3520	1.7600e-003		0.1841	0.1841		0.1841	0.1841		60.0125	60.0125	0.0581		61.4660
Total	**222.9439**	**17.1076**	**443.2447**	**1.0474**		**61.7531**	**61.7531**		**61.7531**	**61.7531**	**7,549.7362**	**14,568.0125**	**22,117.7487**	**22.5729**	**0.5124**	**22,834.7734**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase 2 Construction

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.64	1000sqft	0.03	5,639.00	0
Enclosed Parking with Elevator	318.00	Space	2.86	127,200.00	0
Parking Lot	3.00	Space	0.03	1,200.00	0
High Turnover (Sit Down Restaurant)	3.27	1000sqft	0.02	3,265.00	0
Apartments Mid Rise	204.00	Dwelling Unit	1.30	223,892.00	583

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about off-road equipment unit amounts and usage hours.

Grading - See SWAPE comment about Acres of Grading.

Demolition - Consistent with DEIR's model.

Trips and VMT - Consistent with DEIR's model.

Architectural Coating - Consistent with DEIR's model.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation.

Burbank De Soto Phase 2 Construction - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	4,452.00	7,354.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	13,356.00	17,360.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	151,127.00	147,209.00
tblArchitecturalCoating	ConstArea_Residential_Interior	453,381.00	441,628.00
tblConstructionPhase	PhaseEndDate	2/23/2023	3/15/2023
tblConstructionPhase	PhaseEndDate	1/4/2023	1/24/2023
tblConstructionPhase	PhaseEndDate	1/28/2022	2/17/2022
tblConstructionPhase	PhaseEndDate	2/16/2022	3/8/2022
tblConstructionPhase	PhaseEndDate	1/30/2023	2/17/2023
tblConstructionPhase	PhaseEndDate	2/4/2022	2/24/2022
tblConstructionPhase	PhaseStartDate	1/31/2023	2/18/2023
tblConstructionPhase	PhaseStartDate	2/17/2022	3/9/2022
tblConstructionPhase	PhaseStartDate	1/1/2022	1/21/2022
tblConstructionPhase	PhaseStartDate	2/5/2022	2/25/2022
tblConstructionPhase	PhaseStartDate	1/5/2023	1/25/2023
tblConstructionPhase	PhaseStartDate	1/29/2022	2/18/2022
tblGrading	MaterialExported	0.00	40,647.00
tblLandUse	LandUseSquareFeet	5,640.00	5,639.00
tblLandUse	LandUseSquareFeet	3,270.00	3,265.00
tblLandUse	LandUseSquareFeet	204,000.00	223,892.00
tblLandUse	LotAcreage	0.13	0.03
tblLandUse	LotAcreage	0.08	0.02
tblLandUse	LotAcreage	5.37	1.30
tblTripsAndVMT	HaulingTripNumber	214.00	540.00
tblTripsAndVMT	HaulingTripNumber	5,081.00	8,130.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3609	3.7061	3.2202	0.0103	0.4417	0.1123	0.5540	0.1351	0.1053	0.2404	0.0000	950.3116	950.3116	0.1099	0.0000	953.0601
2023	0.7903	0.2459	0.3457	7.5000e-004	0.0274	0.0107	0.0381	7.3200e-003	0.0101	0.0174	0.0000	66.5802	66.5802	0.0105	0.0000	66.8422
Maximum	**0.7903**	**3.7061**	**3.2202**	**0.0103**	**0.4417**	**0.1123**	**0.5540**	**0.1351**	**0.1053**	**0.2404**	**0.0000**	**950.3116**	**950.3116**	**0.1099**	**0.0000**	**953.0601**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3609	3.7061	3.2202	0.0103	0.4417	0.1123	0.5540	0.1351	0.1053	0.2404	0.0000	950.3113	950.3113	0.1099	0.0000	953.0598
2023	0.7903	0.2459	0.3457	7.5000e-004	0.0274	0.0107	0.0381	7.3200e-003	0.0101	0.0174	0.0000	66.5802	66.5802	0.0105	0.0000	66.8422
Maximum	**0.7903**	**3.7061**	**3.2202**	**0.0103**	**0.4417**	**0.1123**	**0.5540**	**0.1351**	**0.1053**	**0.2404**	**0.0000**	**950.3113**	**950.3113**	**0.1099**	**0.0000**	**953.0598**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2022**	**3-31-2022**	1.8663	1.8663
2	**4-1-2022**	**6-30-2022**	0.7433	0.7433
3	**7-1-2022**	**9-30-2022**	0.7515	0.7515
4	**10-1-2022**	**12-31-2022**	0.7564	0.7564
5	**1-1-2023**	**3-31-2023**	1.0584	1.0584
		Highest	1.8663	1.8663

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6573	0.0772	3.4039	3.4200e-003		0.2065	0.2065		0.2065	0.2065	21.6687	45.0845	66.7532	0.0679	1.4700e-003	68.8899
Energy	0.0165	0.1430	0.0774	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	1,159.8775	1,159.8775	0.0267	7.8600e-003	1,162.8857
Mobile	0.4534	2.0956	5.9285	0.0231	2.0011	0.0177	2.0188	0.5363	0.0164	0.5528	0.0000	2,133.3686	2,133.3686	0.1028	0.0000	2,135.9373
Waste						0.0000	0.0000		0.0000	0.0000	28.0128	0.0000	28.0128	1.6555	0.0000	69.4004
Water						0.0000	0.0000		0.0000	0.0000	4.8497	166.9039	171.7536	0.5021	0.0126	188.0528
Total	**2.1272**	**2.3158**	**9.4097**	**0.0274**	**2.0011**	**0.2355**	**2.2366**	**0.5363**	**0.2342**	**0.7706**	**54.5311**	**3,505.2345**	**3,559.7656**	**2.3549**	**0.0219**	**3,625.1661**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6573	0.0772	3.4039	3.4200e-003		0.2065	0.2065		0.2065	0.2065	21.6687	45.0845	66.7532	0.0679	1.4700e-003	68.8899
Energy	0.0165	0.1430	0.0774	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	1,159.8775	1,159.8775	0.0267	7.8600e-003	1,162.8857
Mobile	0.4534	2.0956	5.9285	0.0231	2.0011	0.0177	2.0188	0.5363	0.0164	0.5528	0.0000	2,133.3686	2,133.3686	0.1028	0.0000	2,135.9373
Waste						0.0000	0.0000		0.0000	0.0000	28.0128	0.0000	28.0128	1.6555	0.0000	69.4004
Water						0.0000	0.0000		0.0000	0.0000	4.8497	166.9039	171.7536	0.5021	0.0126	188.0528
Total	**2.1272**	**2.3158**	**9.4097**	**0.0274**	**2.0011**	**0.2355**	**2.2366**	**0.5363**	**0.2342**	**0.7706**	**54.5311**	**3,505.2345**	**3,559.7656**	**2.3549**	**0.0219**	**3,625.1661**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/21/2022	2/17/2022	5	20	
2	Site Preparation	Site Preparation	2/18/2022	2/24/2022	5	5	
3	Grading	Grading	2/25/2022	3/8/2022	5	8	
4	Building Construction	Building Construction	3/9/2022	1/24/2023	5	230	
5	Paving	Paving	1/25/2023	2/17/2023	5	18	
6	Architectural Coating	Architectural Coating	2/18/2023	3/15/2023	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.89

Residential Indoor: 441,628; Residential Outdoor: 147,209; Non-Residential Indoor: 17,360; Non-Residential Outdoor: 7,354; Striped Parking Area: 7,704 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase 2 Construction - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	540.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	8,130.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	204.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0231	0.0000	0.0231	3.5000e-003	0.0000	3.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**0.0231**	**0.0124**	**0.0356**	**3.5000e-003**	**0.0116**	**0.0151**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1600e-003	0.0694	0.0172	2.1000e-004	4.6400e-003	1.9000e-004	4.8400e-003	1.2700e-003	1.9000e-004	1.4600e-003	0.0000	20.3372	20.3372	1.4100e-003	0.0000	20.3724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**2.7700e-003**	**0.0698**	**0.0225**	**2.3000e-004**	**6.2800e-003**	**2.0000e-004**	**6.5000e-003**	**1.7100e-003**	**2.0000e-004**	**1.9100e-003**	**0.0000**	**21.7685**	**21.7685**	**1.4500e-003**	**0.0000**	**21.8046**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0231	0.0000	0.0231	3.5000e-003	0.0000	3.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**0.0231**	**0.0124**	**0.0356**	**3.5000e-003**	**0.0116**	**0.0151**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1600e-003	0.0694	0.0172	2.1000e-004	4.6400e-003	1.9000e-004	4.8400e-003	1.2700e-003	1.9000e-004	1.4600e-003	0.0000	20.3372	20.3372	1.4100e-003	0.0000	20.3724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**2.7700e-003**	**0.0698**	**0.0225**	**2.3000e-004**	**6.2800e-003**	**2.0000e-004**	**6.5000e-003**	**1.7100e-003**	**2.0000e-004**	**1.9100e-003**	**0.0000**	**21.7685**	**21.7685**	**1.4500e-003**	**0.0000**	**21.8046**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274
Total	**7.9300e-003**	**0.0827**	**0.0492**	**1.0000e-004**	**0.0452**	**4.0300e-003**	**0.0492**	**0.0248**	**3.7100e-003**	**0.0285**	**0.0000**	**8.3599**	**8.3599**	**2.7000e-003**	**0.0000**	**8.4274**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.4000e-004	1.5700e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4294	0.4294	1.0000e-005	0.0000	0.4297
Total	**1.8000e-004**	**1.4000e-004**	**1.5700e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4294**	**0.4294**	**1.0000e-005**	**0.0000**	**0.4297**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274
Total	**7.9300e-003**	**0.0827**	**0.0492**	**1.0000e-004**	**0.0452**	**4.0300e-003**	**0.0492**	**0.0248**	**3.7100e-003**	**0.0285**	**0.0000**	**8.3598**	**8.3598**	**2.7000e-003**	**0.0000**	**8.4274**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.4000e-004	1.5700e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4294	0.4294	1.0000e-005	0.0000	0.4297
Total	**1.8000e-004**	**1.4000e-004**	**1.5700e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4294**	**0.4294**	**1.0000e-005**	**0.0000**	**0.4297**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0285	0.0000	0.0285	0.0138	0.0000	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	**7.7900e-003**	**0.0834**	**0.0611**	**1.2000e-004**	**0.0285**	**3.7600e-003**	**0.0323**	**0.0138**	**3.4600e-003**	**0.0173**	**0.0000**	**10.4219**	**10.4219**	**3.3700e-003**	**0.0000**	**10.5062**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0326	1.0444	0.2595	3.1100e-003	0.0699	2.9300e-003	0.0728	0.0192	2.8000e-003	0.0220	0.0000	306.1885	306.1885	0.0212	0.0000	306.7179
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	2.0900e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5725	0.5725	2.0000e-005	0.0000	0.5729
Total	**0.0328**	**1.0446**	**0.2616**	**3.1200e-003**	**0.0705**	**2.9400e-003**	**0.0735**	**0.0194**	**2.8000e-003**	**0.0222**	**0.0000**	**306.7610**	**306.7610**	**0.0212**	**0.0000**	**307.2907**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0285	0.0000	0.0285	0.0138	0.0000	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	**7.7900e-003**	**0.0834**	**0.0611**	**1.2000e-004**	**0.0285**	**3.7600e-003**	**0.0323**	**0.0138**	**3.4600e-003**	**0.0173**	**0.0000**	**10.4219**	**10.4219**	**3.3700e-003**	**0.0000**	**10.5062**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0326	1.0444	0.2595	3.1100e-003	0.0699	2.9300e-003	0.0728	0.0192	2.8000e-003	0.0220	0.0000	306.1885	306.1885	0.0212	0.0000	306.7179
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	2.0900e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5725	0.5725	2.0000e-005	0.0000	0.5729
Total	**0.0328**	**1.0446**	**0.2616**	**3.1200e-003**	**0.0705**	**2.9400e-003**	**0.0735**	**0.0194**	**2.8000e-003**	**0.0222**	**0.0000**	**306.7610**	**306.7610**	**0.0212**	**0.0000**	**307.2907**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1817	1.6631	1.7427	2.8700e-003		0.0862	0.0862		0.0811	0.0811	0.0000	246.7874	246.7874	0.0591	0.0000	248.2655
Total	**0.1817**	**1.6631**	**1.7427**	**2.8700e-003**		**0.0862**	**0.0862**		**0.0811**	**0.0811**	**0.0000**	**246.7874**	**246.7874**	**0.0591**	**0.0000**	**248.2655**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0137	0.4394	0.1186	1.1800e-003	0.0295	8.2000e-004	0.0303	8.5200e-003	7.9000e-004	9.3100e-003	0.0000	114.4938	114.4938	6.8400e-003	0.0000	114.6647
Worker	0.0877	0.0657	0.7570	2.2900e-003	0.2381	1.9000e-003	0.2400	0.0632	1.7500e-003	0.0650	0.0000	207.2997	207.2997	5.7100e-003	0.0000	207.4424
Total	**0.1013**	**0.5051**	**0.8756**	**3.4700e-003**	**0.2676**	**2.7200e-003**	**0.2703**	**0.0718**	**2.5400e-003**	**0.0743**	**0.0000**	**321.7934**	**321.7934**	**0.0126**	**0.0000**	**322.1071**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1817	1.6631	1.7427	2.8700e-003		0.0862	0.0862		0.0811	0.0811	0.0000	246.7871	246.7871	0.0591	0.0000	248.2652
Total	**0.1817**	**1.6631**	**1.7427**	**2.8700e-003**		**0.0862**	**0.0862**		**0.0811**	**0.0811**	**0.0000**	**246.7871**	**246.7871**	**0.0591**	**0.0000**	**248.2652**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0137	0.4394	0.1186	1.1800e-003	0.0295	8.2000e-004	0.0303	8.5200e-003	7.9000e-004	9.3100e-003	0.0000	114.4938	114.4938	6.8400e-003	0.0000	114.6647
Worker	0.0877	0.0657	0.7570	2.2900e-003	0.2381	1.9000e-003	0.2400	0.0632	1.7500e-003	0.0650	0.0000	207.2997	207.2997	5.7100e-003	0.0000	207.4424
Total	**0.1013**	**0.5051**	**0.8756**	**3.4700e-003**	**0.2676**	**2.7200e-003**	**0.2703**	**0.0718**	**2.5400e-003**	**0.0743**	**0.0000**	**321.7934**	**321.7934**	**0.0126**	**0.0000**	**322.1071**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0134	0.1223	0.1381	2.3000e-004		5.9500e-003	5.9500e-003		5.6000e-003	5.6000e-003	0.0000	19.7034	19.7034	4.6900e-003	0.0000	19.8206
Total	**0.0134**	**0.1223**	**0.1381**	**2.3000e-004**		**5.9500e-003**	**5.9500e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**19.7034**	**19.7034**	**4.6900e-003**	**0.0000**	**19.8206**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.1000e-004	0.0265	8.4900e-003	9.0000e-005	2.3600e-003	3.0000e-005	2.3900e-003	6.8000e-004	3.0000e-005	7.1000e-004	0.0000	8.8519	8.8519	4.8000e-004	0.0000	8.8640
Worker	6.5800e-003	4.7500e-003	0.0556	1.8000e-004	0.0190	1.5000e-004	0.0192	5.0500e-003	1.4000e-004	5.1800e-003	0.0000	15.9396	15.9396	4.1000e-004	0.0000	15.9499
Total	**7.3900e-003**	**0.0312**	**0.0641**	**2.7000e-004**	**0.0214**	**1.8000e-004**	**0.0215**	**5.7300e-003**	**1.7000e-004**	**5.8900e-003**	**0.0000**	**24.7915**	**24.7915**	**8.9000e-004**	**0.0000**	**24.8139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0134	0.1223	0.1381	2.3000e-004		5.9500e-003	5.9500e-003		5.6000e-003	5.6000e-003	0.0000	19.7034	19.7034	4.6900e-003	0.0000	19.8206
Total	**0.0134**	**0.1223**	**0.1381**	**2.3000e-004**		**5.9500e-003**	**5.9500e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**19.7034**	**19.7034**	**4.6900e-003**	**0.0000**	**19.8206**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.1000e-004	0.0265	8.4900e-003	9.0000e-005	2.3600e-003	3.0000e-005	2.3900e-003	6.8000e-004	3.0000e-005	7.1000e-004	0.0000	8.8519	8.8519	4.8000e-004	0.0000	8.8640
Worker	6.5800e-003	4.7500e-003	0.0556	1.8000e-004	0.0190	1.5000e-004	0.0192	5.0500e-003	1.4000e-004	5.1800e-003	0.0000	15.9396	15.9396	4.1000e-004	0.0000	15.9499
Total	**7.3900e-003**	**0.0312**	**0.0641**	**2.7000e-004**	**0.0214**	**1.8000e-004**	**0.0215**	**5.7300e-003**	**1.7000e-004**	**5.8900e-003**	**0.0000**	**24.7915**	**24.7915**	**8.9000e-004**	**0.0000**	**24.8139**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	4.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.3000e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.9000e-004	5.7700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.6546	1.6546	4.0000e-005	0.0000	1.6557
Total	**6.8000e-004**	**4.9000e-004**	**5.7700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6546**	**1.6546**	**4.0000e-005**	**0.0000**	**1.6557**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	4.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.3000e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.9000e-004	5.7700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.6546	1.6546	4.0000e-005	0.0000	1.6557
Total	**6.8000e-004**	**4.9000e-004**	**5.7700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6546**	**1.6546**	**4.0000e-005**	**0.0000**	**1.6557**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7574					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	**0.7592**	**0.0117**	**0.0163**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.4000e-004**	**0.0000**	**2.3014**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-003	1.0100e-003	0.0118	4.0000e-005	4.0400e-003	3.0000e-005	4.0700e-003	1.0700e-003	3.0000e-005	1.1000e-003	0.0000	3.3920	3.3920	9.0000e-005	0.0000	3.3942
Total	**1.4000e-003**	**1.0100e-003**	**0.0118**	**4.0000e-005**	**4.0400e-003**	**3.0000e-005**	**4.0700e-003**	**1.0700e-003**	**3.0000e-005**	**1.1000e-003**	**0.0000**	**3.3920**	**3.3920**	**9.0000e-005**	**0.0000**	**3.3942**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7574					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	**0.7592**	**0.0117**	**0.0163**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.4000e-004**	**0.0000**	**2.3014**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-003	1.0100e-003	0.0118	4.0000e-005	4.0400e-003	3.0000e-005	4.0700e-003	1.0700e-003	3.0000e-005	1.1000e-003	0.0000	3.3920	3.3920	9.0000e-005	0.0000	3.3942
Total	**1.4000e-003**	**1.0100e-003**	**0.0118**	**4.0000e-005**	**4.0400e-003**	**3.0000e-005**	**4.0700e-003**	**1.0700e-003**	**3.0000e-005**	**1.1000e-003**	**0.0000**	**3.3920**	**3.3920**	**9.0000e-005**	**0.0000**	**3.3942**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4534	2.0956	5.9285	0.0231	2.0011	0.0177	2.0188	0.5363	0.0164	0.5528	0.0000	2,133.3686	2,133.3686	0.1028	0.0000	2,135.9373
Unmitigated	0.4534	2.0956	5.9285	0.0231	2.0011	0.0177	2.0188	0.5363	0.0164	0.5528	0.0000	2,133.3686	2,133.3686	0.1028	0.0000	2,135.9373

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,356.60	1,303.56	1195.44	4,531,143	4,531,143
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	62.21	13.87	5.92	152,257	152,257
High Turnover (Sit Down Restaurant)	415.78	517.87	431.12	589,500	589,500
Parking Lot	0.00	0.00	0.00		
Total	1,834.59	1,835.30	1,632.48	5,272,900	5,272,900

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
High Turnover (Sit Down Restaurant)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	997.0281	997.0281	0.0236	4.8700e-003	999.0686
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	997.0281	997.0281	0.0236	4.8700e-003	999.0686
NaturalGas Mitigated	0.0165	0.1430	0.0774	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.8494	162.8494	3.1200e-003	2.9900e-003	163.8171
NaturalGas Unmitigated	0.0165	0.1430	0.0774	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.8494	162.8494	3.1200e-003	2.9900e-003	163.8171

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.23955e+006	0.0121	0.1032	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003	0.0000	119.5109	119.5109	2.2900e-003	2.1900e-003	120.2210
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	58702	3.2000e-004	2.8800e-003	2.4200e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1326	3.1326	6.0000e-005	6.0000e-005	3.1512
High Turnover (Sit Down Restaurant)	753431	4.0600e-003	0.0369	0.0310	2.2000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	40.2060	40.2060	7.7000e-004	7.4000e-004	40.4449
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0165**	**0.1430**	**0.0774**	**9.0000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**162.8494**	**162.8494**	**3.1200e-003**	**2.9900e-003**	**163.8171**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.23955e+006	0.0121	0.1032	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003	0.0000	119.5109	119.5109	2.2900e-003	2.1900e-003	120.2210
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	58702	3.2000e-004	2.8800e-003	2.4200e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1326	3.1326	6.0000e-005	6.0000e-005	3.1512
High Turnover (Sit Down Restaurant)	753431	4.0600e-003	0.0369	0.0310	2.2000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	40.2060	40.2060	7.7000e-004	7.4000e-004	40.4449
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0165**	**0.1430**	**0.0774**	**9.0000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**162.8494**	**162.8494**	**3.1200e-003**	**2.9900e-003**	**163.8171**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	826941	460.5741	0.0109	2.2500e-003	461.5167
Enclosed Parking with Elevator	745392	415.1547	9.8100e-003	2.0300e-003	416.0043
General Office Building	73250.6	40.7978	9.6000e-004	2.0000e-004	40.8813
High Turnover (Sit Down Restaurant)	144117	80.2677	1.9000e-003	3.9000e-004	80.4320
Parking Lot	420	0.2339	1.0000e-005	0.0000	0.2344
Total		**997.0281**	**0.0236**	**4.8700e-003**	**999.0686**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	826941	460.5741	0.0109	2.2500e-003	461.5167
Enclosed Parking with Elevator	745392	415.1547	9.8100e-003	2.0300e-003	416.0043
General Office Building	73250.6	40.7978	9.6000e-004	2.0000e-004	40.8813
High Turnover (Sit Down Restaurant)	144117	80.2677	1.9000e-003	3.9000e-004	80.4320
Parking Lot	420	0.2339	1.0000e-005	0.0000	0.2344
Total		**997.0281**	**0.0236**	**4.8700e-003**	**999.0686**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6573	0.0772	3.4039	3.4200e-003		0.2065	0.2065		0.2065	0.2065	21.6687	45.0845	66.7532	0.0679	1.4700e-003	68.8899
Unmitigated	1.6573	0.0772	3.4039	3.4200e-003		0.2065	0.2065		0.2065	0.2065	21.6687	45.0845	66.7532	0.0679	1.4700e-003	68.8899

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0760					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8495					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6682	0.0529	1.2968	3.3100e-003		0.1948	0.1948		0.1948	0.1948	21.6687	41.6398	63.3085	0.0646	1.4700e-003	65.3623
Landscaping	0.0636	0.0243	2.1071	1.1000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	3.4447	3.4447	3.3200e-003	0.0000	3.5277
Total	**1.6573**	**0.0772**	**3.4039**	**3.4200e-003**		**0.2065**	**0.2065**		**0.2065**	**0.2065**	**21.6687**	**45.0845**	**66.7532**	**0.0679**	**1.4700e-003**	**68.8899**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0760					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8495					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6682	0.0529	1.2968	3.3100e-003		0.1948	0.1948		0.1948	0.1948	21.6687	41.6398	63.3085	0.0646	1.4700e-003	65.3623
Landscaping	0.0636	0.0243	2.1071	1.1000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	3.4447	3.4447	3.3200e-003	0.0000	3.5277
Total	**1.6573**	**0.0772**	**3.4039**	**3.4200e-003**		**0.2065**	**0.2065**		**0.2065**	**0.2065**	**21.6687**	**45.0845**	**66.7532**	**0.0679**	**1.4700e-003**	**68.8899**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	171.7536	0.5021	0.0126	188.0528
Unmitigated	171.7536	0.5021	0.0126	188.0528

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.2914 / 8.37937	152.4590	0.4366	0.0110	166.6374
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.00242 / 0.614385	11.3895	0.0329	8.3000e-004	12.4586
High Turnover (Sit Down Restaurant)	0.992555 / 0.0633546	7.9051	0.0325	8.0000e-004	8.9568
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**171.7536**	**0.5021**	**0.0126**	**188.0528**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.2914 / 8.37937	152.4590	0.4366	0.0110	166.6374
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.00242 / 0.614385	11.3895	0.0329	8.3000e-004	12.4586
High Turnover (Sit Down Restaurant)	0.992555 / 0.0633546	7.9051	0.0325	8.0000e-004	8.9568
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**171.7536**	**0.5021**	**0.0126**	**188.0528**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.0128	1.6555	0.0000	69.4004
Unmitigated	28.0128	1.6555	0.0000	69.4004

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	93.84	19.0487	1.1257	0.0000	47.1923
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.25	1.0657	0.0630	0.0000	2.6402
High Turnover (Sit Down Restaurant)	38.91	7.8984	0.4668	0.0000	19.5679
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**28.0128**	**1.6555**	**0.0000**	**69.4004**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	93.84	19.0487	1.1257	0.0000	47.1923
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.25	1.0657	0.0630	0.0000	2.6402
High Turnover (Sit Down Restaurant)	38.91	7.8984	0.4668	0.0000	19.5679
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**28.0128**	**1.6555**	**0.0000**	**69.4004**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase 2 Construction

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.64	1000sqft	0.03	5,639.00	0
Enclosed Parking with Elevator	318.00	Space	2.86	127,200.00	0
Parking Lot	3.00	Space	0.03	1,200.00	0
High Turnover (Sit Down Restaurant)	3.27	1000sqft	0.02	3,265.00	0
Apartments Mid Rise	204.00	Dwelling Unit	1.30	223,892.00	583

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about off-road equipment unit amounts and usage hours.

Grading - See SWAPE comment about Acres of Grading.

Demolition - Consistent with DEIR's model.

Trips and VMT - Consistent with DEIR's model.

Architectural Coating - Consistent with DEIR's model.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation.

Burbank De Soto Phase 2 Construction - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	4,452.00	7,354.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	13,356.00	17,360.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	151,127.00	147,209.00
tblArchitecturalCoating	ConstArea_Residential_Interior	453,381.00	441,628.00
tblConstructionPhase	PhaseEndDate	2/23/2023	3/15/2023
tblConstructionPhase	PhaseEndDate	1/4/2023	1/24/2023
tblConstructionPhase	PhaseEndDate	1/28/2022	2/17/2022
tblConstructionPhase	PhaseEndDate	2/16/2022	3/8/2022
tblConstructionPhase	PhaseEndDate	1/30/2023	2/17/2023
tblConstructionPhase	PhaseEndDate	2/4/2022	2/24/2022
tblConstructionPhase	PhaseStartDate	1/31/2023	2/18/2023
tblConstructionPhase	PhaseStartDate	2/17/2022	3/9/2022
tblConstructionPhase	PhaseStartDate	1/1/2022	1/21/2022
tblConstructionPhase	PhaseStartDate	2/5/2022	2/25/2022
tblConstructionPhase	PhaseStartDate	1/5/2023	1/25/2023
tblConstructionPhase	PhaseStartDate	1/29/2022	2/18/2022
tblGrading	MaterialExported	0.00	40,647.00
tblLandUse	LandUseSquareFeet	5,640.00	5,639.00
tblLandUse	LandUseSquareFeet	3,270.00	3,265.00
tblLandUse	LandUseSquareFeet	204,000.00	223,892.00
tblLandUse	LotAcreage	0.13	0.03
tblLandUse	LotAcreage	0.08	0.02
tblLandUse	LotAcreage	5.37	1.30
tblTripsAndVMT	HaulingTripNumber	214.00	540.00
tblTripsAndVMT	HaulingTripNumber	5,081.00	8,130.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	10.0726	274.1308	79.0979	0.8138	25.0650	1.6692	26.7341	9.9840	1.5623	11.4691	0.0000	88,039.5563	88,039.5563	6.6835	0.0000	88,206.6443
2023	84.5067	17.9586	24.1794	0.0595	2.5620	0.7206	3.2826	0.6858	0.6778	1.3636	0.0000	5,875.7059	5,875.7059	0.7246	0.0000	5,893.8207
Maximum	**84.5067**	**274.1308**	**79.0979**	**0.8138**	**25.0650**	**1.6692**	**26.7341**	**9.9840**	**1.5623**	**11.4691**	**0.0000**	**88,039.5563**	**88,039.5563**	**6.6835**	**0.0000**	**88,206.6443**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	10.0726	274.1308	79.0979	0.8138	25.0650	1.6692	26.7341	9.9840	1.5623	11.4691	0.0000	88,039.5563	88,039.5563	6.6835	0.0000	88,206.6443
2023	84.5067	17.9586	24.1794	0.0595	2.5620	0.7206	3.2826	0.6858	0.6778	1.3636	0.0000	5,875.7059	5,875.7059	0.7246	0.0000	5,893.8207
Maximum	**84.5067**	**274.1308**	**79.0979**	**0.8138**	**25.0650**	**1.6692**	**26.7341**	**9.9840**	**1.5623**	**11.4691**	**0.0000**	**88,039.5563**	**88,039.5563**	**6.6835**	**0.0000**	**88,206.6443**

Burbank De Soto Phase 2 Construction - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	59.0353	4.4268	120.6014	0.2656		15.6766	15.6766		15.6766	15.6766	1,910.8514	3,702.3769	5,613.2282	5.7278	0.1297	5,795.0722
Energy	0.0902	0.7836	0.4239	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6203	983.6203	0.0189	0.0180	989.4655
Mobile	2.8059	11.7776	35.6185	0.1381	11.7835	0.1021	11.8856	3.1531	0.0949	3.2480		14,082.3110	14,082.3110	0.6598		14,098.8060
Total	**61.9314**	**16.9880**	**156.6437**	**0.4086**	**11.7835**	**15.8410**	**27.6245**	**3.1531**	**15.8338**	**18.9869**	**1,910.8514**	**18,768.3082**	**20,679.1595**	**6.4064**	**0.1477**	**20,883.3437**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	59.0353	4.4268	120.6014	0.2656		15.6766	15.6766		15.6766	15.6766	1,910.8514	3,702.3769	5,613.2282	5.7278	0.1297	5,795.0722
Energy	0.0902	0.7836	0.4239	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6203	983.6203	0.0189	0.0180	989.4655
Mobile	2.8059	11.7776	35.6185	0.1381	11.7835	0.1021	11.8856	3.1531	0.0949	3.2480		14,082.3110	14,082.3110	0.6598		14,098.8060
Total	**61.9314**	**16.9880**	**156.6437**	**0.4086**	**11.7835**	**15.8410**	**27.6245**	**3.1531**	**15.8338**	**18.9869**	**1,910.8514**	**18,768.3082**	**20,679.1595**	**6.4064**	**0.1477**	**20,883.3437**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/21/2022	2/17/2022	5	20	
2	Site Preparation	Site Preparation	2/18/2022	2/24/2022	5	5	
3	Grading	Grading	2/25/2022	3/8/2022	5	8	
4	Building Construction	Building Construction	3/9/2022	1/24/2023	5	230	
5	Paving	Paving	1/25/2023	2/17/2023	5	18	
6	Architectural Coating	Architectural Coating	2/18/2023	3/15/2023	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.89

Residential Indoor: 441,628; Residential Outdoor: 147,209; Non-Residential Indoor: 17,360; Non-Residential Outdoor: 7,354; Striped Parking Area: 7,704 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase 2 Construction - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	540.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	8,130.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	204.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3132	0.0000	2.3132	0.3502	0.0000	0.3502			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.3132**	**1.2427**	**3.5559**	**0.3502**	**1.1553**	**1.5055**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2142	6.7280	1.6809	0.0208	0.4721	0.0193	0.4914	0.1294	0.0185	0.1479		2,258.3744	2,258.3744	0.1528		2,262.1937
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.2745**	**6.7680**	**2.2383**	**0.0224**	**0.6398**	**0.0206**	**0.6604**	**0.1739**	**0.0197**	**0.1936**		**2,423.1813**	**2,423.1813**	**0.1573**		**2,427.1142**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3132	0.0000	2.3132	0.3502	0.0000	0.3502			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.3132**	**1.2427**	**3.5559**	**0.3502**	**1.1553**	**1.5055**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2142	6.7280	1.6809	0.0208	0.4721	0.0193	0.4914	0.1294	0.0185	0.1479		2,258.3744	2,258.3744	0.1528		2,262.1937
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.2745**	**6.7680**	**2.2383**	**0.0224**	**0.6398**	**0.0206**	**0.6604**	**0.1739**	**0.0197**	**0.1936**		**2,423.1813**	**2,423.1813**	**0.1573**		**2,427.1142**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
Total	**0.0723**	**0.0479**	**0.6689**	**1.9800e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**197.7682**	**197.7682**	**5.4600e-003**		**197.9047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
Total	**0.0723**	**0.0479**	**0.6689**	**1.9800e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**197.7682**	**197.7682**	**5.4600e-003**		**197.9047**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1269	0.0000	7.1269	3.4545	0.0000	3.4545			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.1269**	**0.9409**	**8.0678**	**3.4545**	**0.8656**	**4.3201**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.0637	253.2358	63.2678	0.7825	17.7704	0.7270	18.4974	4.8712	0.6955	5.5668		85,002.7030	85,002.7030	5.7501		85,146.4553
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**8.1240**	**253.2757**	**63.8252**	**0.7841**	**17.9380**	**0.7283**	**18.6663**	**4.9157**	**0.6967**	**5.6124**		**85,167.5099**	**85,167.5099**	**5.7546**		**85,311.3759**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1269	0.0000	7.1269	3.4545	0.0000	3.4545			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.1269**	**0.9409**	**8.0678**	**3.4545**	**0.8656**	**4.3201**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.0637	253.2358	63.2678	0.7825	17.7704	0.7270	18.4974	4.8712	0.6955	5.5668		85,002.7030	85,002.7030	5.7501		85,146.4553
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**8.1240**	**253.2757**	**63.8252**	**0.7841**	**17.9380**	**0.7283**	**18.6663**	**4.9157**	**0.6967**	**5.6124**		**85,167.5099**	**85,167.5099**	**5.7546**		**85,311.3759**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1255	4.0625	1.0567	0.0112	0.2817	7.6400e-003	0.2893	0.0811	7.3000e-003	0.0884		1,198.9379	1,198.9379	0.0688		1,200.6580
Worker	0.8191	0.5429	7.5807	0.0225	2.2802	0.0179	2.2981	0.6047	0.0164	0.6212		2,241.3731	2,241.3731	0.0619		2,242.9197
Total	**0.9446**	**4.6055**	**8.6374**	**0.0337**	**2.5619**	**0.0255**	**2.5874**	**0.6858**	**0.0237**	**0.7096**		**3,440.3110**	**3,440.3110**	**0.1307**		**3,443.5777**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1255	4.0625	1.0567	0.0112	0.2817	7.6400e-003	0.2893	0.0811	7.3000e-003	0.0884		1,198.9379	1,198.9379	0.0688		1,200.6580
Worker	0.8191	0.5429	7.5807	0.0225	2.2802	0.0179	2.2981	0.6047	0.0164	0.6212		2,241.3731	2,241.3731	0.0619		2,242.9197
Total	**0.9446**	**4.6055**	**8.6374**	**0.0337**	**2.5619**	**0.0255**	**2.5874**	**0.6858**	**0.0237**	**0.7096**		**3,440.3110**	**3,440.3110**	**0.1307**		**3,443.5777**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0931	3.0825	0.9543	0.0108	0.2817	3.5600e-003	0.2853	0.0811	3.4000e-003	0.0845		1,161.1927	1,161.1927	0.0610		1,162.7169
Worker	0.7692	0.4912	6.9812	0.0217	2.2802	0.0173	2.2976	0.6047	0.0160	0.6207		2,159.3033	2,159.3033	0.0558		2,160.6977
Total	**0.8623**	**3.5737**	**7.9354**	**0.0325**	**2.5620**	**0.0209**	**2.5829**	**0.6858**	**0.0194**	**0.7052**		**3,320.4959**	**3,320.4959**	**0.1168**		**3,323.4146**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0931	3.0825	0.9543	0.0108	0.2817	3.5600e-003	0.2853	0.0811	3.4000e-003	0.0845		1,161.1927	1,161.1927	0.0610		1,162.7169
Worker	0.7692	0.4912	6.9812	0.0217	2.2802	0.0173	2.2976	0.6047	0.0160	0.6207		2,159.3033	2,159.3033	0.0558		2,160.6977
Total	**0.8623**	**3.5737**	**7.9354**	**0.0325**	**2.5620**	**0.0209**	**2.5829**	**0.6858**	**0.0194**	**0.7052**		**3,320.4959**	**3,320.4959**	**0.1168**		**3,323.4146**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	4.3700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9225**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331
Total	**0.0754**	**0.0482**	**0.6844**	**2.1200e-003**	**0.2236**	**1.7000e-003**	**0.2253**	**0.0593**	**1.5700e-003**	**0.0609**		**211.6964**	**211.6964**	**5.4700e-003**		**211.8331**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	4.3700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9225**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331
Total	**0.0754**	**0.0482**	**0.6844**	**2.1200e-003**	**0.2236**	**1.7000e-003**	**0.2253**	**0.0593**	**1.5700e-003**	**0.0609**		**211.6964**	**211.6964**	**5.4700e-003**		**211.8331**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	84.1604					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**84.3521**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1546	0.0987	1.4031	4.3500e-003	0.4583	3.4900e-003	0.4618	0.1215	3.2100e-003	0.1248		433.9776	433.9776	0.0112		434.2579
Total	**0.1546**	**0.0987**	**1.4031**	**4.3500e-003**	**0.4583**	**3.4900e-003**	**0.4618**	**0.1215**	**3.2100e-003**	**0.1248**		**433.9776**	**433.9776**	**0.0112**		**434.2579**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	84.1604					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**84.3521**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1546	0.0987	1.4031	4.3500e-003	0.4583	3.4900e-003	0.4618	0.1215	3.2100e-003	0.1248		433.9776	433.9776	0.0112		434.2579
Total	**0.1546**	**0.0987**	**1.4031**	**4.3500e-003**	**0.4583**	**3.4900e-003**	**0.4618**	**0.1215**	**3.2100e-003**	**0.1248**		**433.9776**	**433.9776**	**0.0112**		**434.2579**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8059	11.7776	35.6185	0.1381	11.7835	0.1021	11.8856	3.1531	0.0949	3.2480		14,082.3110	14,082.3110	0.6598		14,098.8060
Unmitigated	2.8059	11.7776	35.6185	0.1381	11.7835	0.1021	11.8856	3.1531	0.0949	3.2480		14,082.3110	14,082.3110	0.6598		14,098.8060

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,356.60	1,303.56	1195.44	4,531,143	4,531,143
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	62.21	13.87	5.92	152,257	152,257
High Turnover (Sit Down Restaurant)	415.78	517.87	431.12	589,500	589,500
Parking Lot	0.00	0.00	0.00		
Total	1,834.59	1,835.30	1,632.48	5,272,900	5,272,900

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
High Turnover (Sit Down Restaurant)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0902	0.7836	0.4239	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6203	983.6203	0.0189	0.0180	989.4655
NaturalGas Unmitigated	0.0902	0.7836	0.4239	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6203	983.6203	0.0189	0.0180	989.4655

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6135.75	0.0662	0.5655	0.2406	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.8529	721.8529	0.0138	0.0132	726.1425
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	160.827	1.7300e-003	0.0158	0.0132	9.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		18.9209	18.9209	3.6000e-004	3.5000e-004	19.0333
High Turnover (Sit Down Restaurant)	2064.2	0.0223	0.2024	0.1700	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.8465	242.8465	4.6500e-003	4.4500e-003	244.2897
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0902**	**0.7836**	**0.4239**	**4.9100e-003**		**0.0623**	**0.0623**		**0.0623**	**0.0623**		**983.6203**	**983.6203**	**0.0189**	**0.0180**	**989.4655**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6.13575	0.0662	0.5655	0.2406	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.8529	721.8529	0.0138	0.0132	726.1425
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.160827	1.7300e-003	0.0158	0.0132	9.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		18.9209	18.9209	3.6000e-004	3.5000e-004	19.0333
High Turnover (Sit Down Restaurant)	2.0642	0.0223	0.2024	0.1700	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.8465	242.8465	4.6500e-003	4.4500e-003	244.2897
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0902**	**0.7836**	**0.4239**	**4.9100e-003**		**0.0623**	**0.0623**		**0.0623**	**0.0623**		**983.6203**	**983.6203**	**0.0189**	**0.0180**	**989.4655**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	59.0353	4.4268	120.6014	0.2656		15.6766	15.6766		15.6766	15.6766	1,910.8514	3,702.3769	5,613.2282	5.7278	0.1297	5,795.0722
Unmitigated	59.0353	4.4268	120.6014	0.2656		15.6766	15.6766		15.6766	15.6766	1,910.8514	3,702.3769	5,613.2282	5.7278	0.1297	5,795.0722

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6548					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	53.4553	4.2327	103.7446	0.2647		15.5832	15.5832		15.5832	15.5832	1,910.8514	3,672.0000	5,582.8514	5.6985	0.1297	5,763.9637
Landscaping	0.5089	0.1941	16.8568	8.9000e-004		0.0934	0.0934		0.0934	0.0934		30.3769	30.3769	0.0293		31.1085
Total	**59.0353**	**4.4268**	**120.6014**	**0.2656**		**15.6766**	**15.6766**		**15.6766**	**15.6766**	**1,910.8514**	**3,702.3769**	**5,613.2282**	**5.7278**	**0.1297**	**5,795.0722**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6548					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	53.4553	4.2327	103.7446	0.2647		15.5832	15.5832		15.5832	15.5832	1,910.8514	3,672.0000	5,582.8514	5.6985	0.1297	5,763.9637
Landscaping	0.5089	0.1941	16.8568	8.9000e-004		0.0934	0.0934		0.0934	0.0934		30.3769	30.3769	0.0293		31.1085
Total	**59.0353**	**4.4268**	**120.6014**	**0.2656**		**15.6766**	**15.6766**		**15.6766**	**15.6766**	**1,910.8514**	**3,702.3769**	**5,613.2282**	**5.7278**	**0.1297**	**5,795.0722**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase 2 Construction

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.64	1000sqft	0.03	5,639.00	0
Enclosed Parking with Elevator	318.00	Space	2.86	127,200.00	0
Parking Lot	3.00	Space	0.03	1,200.00	0
High Turnover (Sit Down Restaurant)	3.27	1000sqft	0.02	3,265.00	0
Apartments Mid Rise	204.00	Dwelling Unit	1.30	223,892.00	583

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about off-road equipment unit amounts and usage hours.

Grading - See SWAPE comment about Acres of Grading.

Demolition - Consistent with DEIR's model.

Trips and VMT - Consistent with DEIR's model.

Architectural Coating - Consistent with DEIR's model.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation.

Burbank De Soto Phase 2 Construction - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	4,452.00	7,354.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	13,356.00	17,360.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	151,127.00	147,209.00
tblArchitecturalCoating	ConstArea_Residential_Interior	453,381.00	441,628.00
tblConstructionPhase	PhaseEndDate	2/23/2023	3/15/2023
tblConstructionPhase	PhaseEndDate	1/4/2023	1/24/2023
tblConstructionPhase	PhaseEndDate	1/28/2022	2/17/2022
tblConstructionPhase	PhaseEndDate	2/16/2022	3/8/2022
tblConstructionPhase	PhaseEndDate	1/30/2023	2/17/2023
tblConstructionPhase	PhaseEndDate	2/4/2022	2/24/2022
tblConstructionPhase	PhaseStartDate	1/31/2023	2/18/2023
tblConstructionPhase	PhaseStartDate	2/17/2022	3/9/2022
tblConstructionPhase	PhaseStartDate	1/1/2022	1/21/2022
tblConstructionPhase	PhaseStartDate	2/5/2022	2/25/2022
tblConstructionPhase	PhaseStartDate	1/5/2023	1/25/2023
tblConstructionPhase	PhaseStartDate	1/29/2022	2/18/2022
tblGrading	MaterialExported	0.00	40,647.00
tblLandUse	LandUseSquareFeet	5,640.00	5,639.00
tblLandUse	LandUseSquareFeet	3,270.00	3,265.00
tblLandUse	LandUseSquareFeet	204,000.00	223,892.00
tblLandUse	LotAcreage	0.13	0.03
tblLandUse	LotAcreage	0.08	0.02
tblLandUse	LotAcreage	5.37	1.30
tblTripsAndVMT	HaulingTripNumber	214.00	540.00
tblTripsAndVMT	HaulingTripNumber	5,081.00	8,130.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	10.2743	277.0274	82.7297	0.8000	25.0650	1.6805	26.7455	9.9840	1.5732	11.4691	0.0000	86,544.3577	86,544.3577	6.8794	0.0000	86,716.3421
2023	84.5250	17.9968	23.6432	0.0579	2.5620	0.7208	3.2828	0.6858	0.6780	1.3638	0.0000	5,718.1817	5,718.1817	0.7247	0.0000	5,736.2986
Maximum	**84.5250**	**277.0274**	**82.7297**	**0.8000**	**25.0650**	**1.6805**	**26.7455**	**9.9840**	**1.5732**	**11.4691**	**0.0000**	**86,544.3577**	**86,544.3577**	**6.8794**	**0.0000**	**86,716.3421**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	10.2743	277.0274	82.7297	0.8000	25.0650	1.6805	26.7455	9.9840	1.5732	11.4691	0.0000	86,544.3577	86,544.3577	6.8794	0.0000	86,716.3420
2023	84.5250	17.9968	23.6432	0.0579	2.5620	0.7208	3.2828	0.6858	0.6780	1.3638	0.0000	5,718.1817	5,718.1817	0.7247	0.0000	5,736.2985
Maximum	**84.5250**	**277.0274**	**82.7297**	**0.8000**	**25.0650**	**1.6805**	**26.7455**	**9.9840**	**1.5732**	**11.4691**	**0.0000**	**86,544.3577**	**86,544.3577**	**6.8794**	**0.0000**	**86,716.3420**

Burbank De Soto Phase 2 Construction - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	59.0353	4.4268	120.6014	0.2656		15.6766	15.6766		15.6766	15.6766	1,910.8514	3,702.3769	5,613.2282	5.7278	0.1297	5,795.0722
Energy	0.0902	0.7836	0.4239	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6203	983.6203	0.0189	0.0180	989.4655
Mobile	2.7160	12.0208	33.8969	0.1314	11.7835	0.1026	11.8860	3.1531	0.0953	3.2484		13,405.2176	13,405.2176	0.6594		13,421.7018
Total	**61.8415**	**17.2312**	**154.9222**	**0.4019**	**11.7835**	**15.8414**	**27.6249**	**3.1531**	**15.8342**	**18.9873**	**1,910.8514**	**18,091.2148**	**20,002.0662**	**6.4060**	**0.1477**	**20,206.2395**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	59.0353	4.4268	120.6014	0.2656		15.6766	15.6766		15.6766	15.6766	1,910.8514	3,702.3769	5,613.2282	5.7278	0.1297	5,795.0722
Energy	0.0902	0.7836	0.4239	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6203	983.6203	0.0189	0.0180	989.4655
Mobile	2.7160	12.0208	33.8969	0.1314	11.7835	0.1026	11.8860	3.1531	0.0953	3.2484		13,405.2176	13,405.2176	0.6594		13,421.7018
Total	**61.8415**	**17.2312**	**154.9222**	**0.4019**	**11.7835**	**15.8414**	**27.6249**	**3.1531**	**15.8342**	**18.9873**	**1,910.8514**	**18,091.2148**	**20,002.0662**	**6.4060**	**0.1477**	**20,206.2395**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/21/2022	2/17/2022	5	20	
2	Site Preparation	Site Preparation	2/18/2022	2/24/2022	5	5	
3	Grading	Grading	2/25/2022	3/8/2022	5	8	
4	Building Construction	Building Construction	3/9/2022	1/24/2023	5	230	
5	Paving	Paving	1/25/2023	2/17/2023	5	18	
6	Architectural Coating	Architectural Coating	2/18/2023	3/15/2023	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.89

Residential Indoor: 441,628; Residential Outdoor: 147,209; Non-Residential Indoor: 17,360; Non-Residential Outdoor: 7,354; Striped Parking Area: 7,704 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase 2 Construction - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	540.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	8,130.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	204.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3132	0.0000	2.3132	0.3502	0.0000	0.3502			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.3132**	**1.2427**	**3.5559**	**0.3502**	**1.1553**	**1.5055**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2194	6.8049	1.7787	0.0204	0.4721	0.0196	0.4917	0.1294	0.0188	0.1482		2,218.9052	2,218.9052	0.1580		2,222.8547
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.2866**	**6.8491**	**2.2875**	**0.0220**	**0.6398**	**0.0209**	**0.6607**	**0.1739**	**0.0200**	**0.1939**		**2,374.0906**	**2,374.0906**	**0.1623**		**2,378.1470**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3132	0.0000	2.3132	0.3502	0.0000	0.3502			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.3132**	**1.2427**	**3.5559**	**0.3502**	**1.1553**	**1.5055**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2194	6.8049	1.7787	0.0204	0.4721	0.0196	0.4917	0.1294	0.0188	0.1482		2,218.9052	2,218.9052	0.1580		2,222.8547
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.2866**	**6.8491**	**2.2875**	**0.0220**	**0.6398**	**0.0209**	**0.6607**	**0.1739**	**0.0200**	**0.1939**		**2,374.0906**	**2,374.0906**	**0.1623**		**2,378.1470**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
Total	**0.0806**	**0.0530**	**0.6105**	**1.8700e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**186.2225**	**186.2225**	**5.1300e-003**		**186.3507**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
Total	**0.0806**	**0.0530**	**0.6105**	**1.8700e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**186.2225**	**186.2225**	**5.1300e-003**		**186.3507**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1269	0.0000	7.1269	3.4545	0.0000	3.4545			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.1269**	**0.9409**	**8.0678**	**3.4545**	**0.8656**	**4.3201**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2584	256.1280	66.9482	0.7688	17.7704	0.7383	18.5087	4.8712	0.7064	5.5776		83,517.1258	83,517.1258	5.9462		83,665.7815
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**8.3256**	**256.1722**	**67.4569**	**0.7703**	**17.9380**	**0.7396**	**18.6777**	**4.9157**	**0.7076**	**5.6233**		**83,672.3113**	**83,672.3113**	**5.9505**		**83,821.0737**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1269	0.0000	7.1269	3.4545	0.0000	3.4545			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.1269**	**0.9409**	**8.0678**	**3.4545**	**0.8656**	**4.3201**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2584	256.1280	66.9482	0.7688	17.7704	0.7383	18.5087	4.8712	0.7064	5.5776		83,517.1258	83,517.1258	5.9462		83,665.7815
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**8.3256**	**256.1722**	**67.4569**	**0.7703**	**17.9380**	**0.7396**	**18.6777**	**4.9157**	**0.7076**	**5.6233**		**83,672.3113**	**83,672.3113**	**5.9505**		**83,821.0737**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1318	4.0515	1.1694	0.0109	0.2817	7.8900e-003	0.2896	0.0811	7.5400e-003	0.0887		1,165.8692	1,165.8692	0.0733		1,167.7010
Worker	0.9136	0.6009	6.9192	0.0212	2.2802	0.0179	2.2981	0.6047	0.0164	0.6212		2,110.5217	2,110.5217	0.0581		2,111.9745
Total	**1.0454**	**4.6524**	**8.0886**	**0.0321**	**2.5619**	**0.0257**	**2.5877**	**0.6858**	**0.0240**	**0.7098**		**3,276.3909**	**3,276.3909**	**0.1314**		**3,279.6755**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1318	4.0515	1.1694	0.0109	0.2817	7.8900e-003	0.2896	0.0811	7.5400e-003	0.0887		1,165.8692	1,165.8692	0.0733		1,167.7010
Worker	0.9136	0.6009	6.9192	0.0212	2.2802	0.0179	2.2981	0.6047	0.0164	0.6212		2,110.5217	2,110.5217	0.0581		2,111.9745
Total	**1.0454**	**4.6524**	**8.0886**	**0.0321**	**2.5619**	**0.0257**	**2.5877**	**0.6858**	**0.0240**	**0.7098**		**3,276.3909**	**3,276.3909**	**0.1314**		**3,279.6755**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0979	3.0685	1.0391	0.0106	0.2817	3.7400e-003	0.2855	0.0811	3.5800e-003	0.0847		1,129.6618	1,129.6618	0.0645		1,131.2744
Worker	0.8607	0.5435	6.3600	0.0204	2.2802	0.0173	2.2976	0.6047	0.0160	0.6207		2,033.3100	2,033.3100	0.0523		2,034.6181
Total	**0.9586**	**3.6120**	**7.3992**	**0.0310**	**2.5620**	**0.0211**	**2.5830**	**0.6858**	**0.0196**	**0.7054**		**3,162.9717**	**3,162.9717**	**0.1168**		**3,165.8925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0979	3.0685	1.0391	0.0106	0.2817	3.7400e-003	0.2855	0.0811	3.5800e-003	0.0847		1,129.6618	1,129.6618	0.0645		1,131.2744
Worker	0.8607	0.5435	6.3600	0.0204	2.2802	0.0173	2.2976	0.6047	0.0160	0.6207		2,033.3100	2,033.3100	0.0523		2,034.6181
Total	**0.9586**	**3.6120**	**7.3992**	**0.0310**	**2.5620**	**0.0211**	**2.5830**	**0.6858**	**0.0196**	**0.7054**		**3,162.9717**	**3,162.9717**	**0.1168**		**3,165.8925**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	4.3700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9225**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
Total	**0.0844**	**0.0533**	**0.6235**	**2.0000e-003**	**0.2236**	**1.7000e-003**	**0.2253**	**0.0593**	**1.5700e-003**	**0.0609**		**199.3441**	**199.3441**	**5.1300e-003**		**199.4724**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	4.3700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9225**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
Total	**0.0844**	**0.0533**	**0.6235**	**2.0000e-003**	**0.2236**	**1.7000e-003**	**0.2253**	**0.0593**	**1.5700e-003**	**0.0609**		**199.3441**	**199.3441**	**5.1300e-003**		**199.4724**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	84.1604					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**84.3521**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1730	0.1092	1.2782	4.1000e-003	0.4583	3.4900e-003	0.4618	0.1215	3.2100e-003	0.1248		408.6554	408.6554	0.0105		408.9184
Total	**0.1730**	**0.1092**	**1.2782**	**4.1000e-003**	**0.4583**	**3.4900e-003**	**0.4618**	**0.1215**	**3.2100e-003**	**0.1248**		**408.6554**	**408.6554**	**0.0105**		**408.9184**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	84.1604					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**84.3521**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1730	0.1092	1.2782	4.1000e-003	0.4583	3.4900e-003	0.4618	0.1215	3.2100e-003	0.1248		408.6554	408.6554	0.0105		408.9184
Total	**0.1730**	**0.1092**	**1.2782**	**4.1000e-003**	**0.4583**	**3.4900e-003**	**0.4618**	**0.1215**	**3.2100e-003**	**0.1248**		**408.6554**	**408.6554**	**0.0105**		**408.9184**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7160	12.0208	33.8969	0.1314	11.7835	0.1026	11.8860	3.1531	0.0953	3.2484		13,405.2176	13,405.2176	0.6594		13,421.7018
Unmitigated	2.7160	12.0208	33.8969	0.1314	11.7835	0.1026	11.8860	3.1531	0.0953	3.2484		13,405.2176	13,405.2176	0.6594		13,421.7018

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,356.60	1,303.56	1195.44	4,531,143	4,531,143
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	62.21	13.87	5.92	152,257	152,257
High Turnover (Sit Down Restaurant)	415.78	517.87	431.12	589,500	589,500
Parking Lot	0.00	0.00	0.00		
Total	1,834.59	1,835.30	1,632.48	5,272,900	5,272,900

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
High Turnover (Sit Down Restaurant)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0902	0.7836	0.4239	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6203	983.6203	0.0189	0.0180	989.4655
NaturalGas Unmitigated	0.0902	0.7836	0.4239	4.9200e-003		0.0623	0.0623		0.0623	0.0623		983.6203	983.6203	0.0189	0.0180	989.4655

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6135.75	0.0662	0.5655	0.2406	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.8529	721.8529	0.0138	0.0132	726.1425
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	160.827	1.7300e-003	0.0158	0.0132	9.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		18.9209	18.9209	3.6000e-004	3.5000e-004	19.0333
High Turnover (Sit Down Restaurant)	2064.2	0.0223	0.2024	0.1700	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.8465	242.8465	4.6500e-003	4.4500e-003	244.2897
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0902**	**0.7836**	**0.4239**	**4.9100e-003**		**0.0623**	**0.0623**		**0.0623**	**0.0623**		**983.6203**	**983.6203**	**0.0189**	**0.0180**	**989.4655**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6.13575	0.0662	0.5655	0.2406	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.8529	721.8529	0.0138	0.0132	726.1425
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.160827	1.7300e-003	0.0158	0.0132	9.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		18.9209	18.9209	3.6000e-004	3.5000e-004	19.0333
High Turnover (Sit Down Restaurant)	2.0642	0.0223	0.2024	0.1700	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.8465	242.8465	4.6500e-003	4.4500e-003	244.2897
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0902**	**0.7836**	**0.4239**	**4.9100e-003**		**0.0623**	**0.0623**		**0.0623**	**0.0623**		**983.6203**	**983.6203**	**0.0189**	**0.0180**	**989.4655**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	59.0353	4.4268	120.6014	0.2656		15.6766	15.6766		15.6766	15.6766	1,910.8514	3,702.3769	5,613.2282	5.7278	0.1297	5,795.0722
Unmitigated	59.0353	4.4268	120.6014	0.2656		15.6766	15.6766		15.6766	15.6766	1,910.8514	3,702.3769	5,613.2282	5.7278	0.1297	5,795.0722

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6548					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	53.4553	4.2327	103.7446	0.2647		15.5832	15.5832		15.5832	15.5832	1,910.8514	3,672.0000	5,582.8514	5.6985	0.1297	5,763.9637
Landscaping	0.5089	0.1941	16.8568	8.9000e-004		0.0934	0.0934		0.0934	0.0934		30.3769	30.3769	0.0293		31.1085
Total	**59.0353**	**4.4268**	**120.6014**	**0.2656**		**15.6766**	**15.6766**		**15.6766**	**15.6766**	**1,910.8514**	**3,702.3769**	**5,613.2282**	**5.7278**	**0.1297**	**5,795.0722**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6548					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	53.4553	4.2327	103.7446	0.2647		15.5832	15.5832		15.5832	15.5832	1,910.8514	3,672.0000	5,582.8514	5.6985	0.1297	5,763.9637
Landscaping	0.5089	0.1941	16.8568	8.9000e-004		0.0934	0.0934		0.0934	0.0934		30.3769	30.3769	0.0293		31.1085
Total	**59.0353**	**4.4268**	**120.6014**	**0.2656**		**15.6766**	**15.6766**		**15.6766**	**15.6766**	**1,910.8514**	**3,702.3769**	**5,613.2282**	**5.7278**	**0.1297**	**5,795.0722**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase 3 Construction

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	236.71	1000sqft	0.70	236,710.00	0
General Office Building	224.56	1000sqft	0.67	224,556.00	0
Enclosed Parking with Elevator	1,427.00	Space	12.84	570,800.00	0
Strip Mall	14.89	1000sqft	0.04	14,892.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about construction equipment list changes.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about material export and acres of grading.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - See SWAPE comment about equipment unit amounts and usage hours.

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	105,000.00
tblLandUse	LandUseSquareFeet	224,560.00	224,556.00
tblLandUse	LandUseSquareFeet	14,890.00	14,892.00
tblLandUse	LotAcreage	5.16	0.67
tblLandUse	LotAcreage	5.43	0.70
tblLandUse	LotAcreage	0.34	0.04
tblTripsAndVMT	HaulingTripNumber	346.00	880.00
tblTripsAndVMT	HaulingTripNumber	13,125.00	17,838.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3894	4.4810	3.6719	0.0164	0.8259	0.0955	0.9214	0.2628	0.0892	0.3519	0.0000	1,547.5156	1,547.5156	0.1504	0.0000	1,551.2765
2024	2.5495	2.1417	2.6133	8.5500e-003	0.4217	0.0559	0.4776	0.1139	0.0525	0.1664	0.0000	785.5287	785.5287	0.0720	0.0000	787.3283
Maximum	**2.5495**	**4.4810**	**3.6719**	**0.0164**	**0.8259**	**0.0955**	**0.9214**	**0.2628**	**0.0892**	**0.3519**	**0.0000**	**1,547.5156**	**1,547.5156**	**0.1504**	**0.0000**	**1,551.2765**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3894	4.4810	3.6719	0.0164	0.8259	0.0955	0.9214	0.2628	0.0892	0.3519	0.0000	1,547.5153	1,547.5153	0.1504	0.0000	1,551.2761
2024	2.5495	2.1417	2.6133	8.5500e-003	0.4217	0.0559	0.4776	0.1139	0.0525	0.1664	0.0000	785.5284	785.5284	0.0720	0.0000	787.3281
Maximum	**2.5495**	**4.4810**	**3.6719**	**0.0164**	**0.8259**	**0.0955**	**0.9214**	**0.2628**	**0.0892**	**0.3519**	**0.0000**	**1,547.5153**	**1,547.5153**	**0.1504**	**0.0000**	**1,551.2761**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
11	**2-18-2023**	**5-17-2023**	1.5060	1.5060
12	**5-18-2023**	**8-17-2023**	1.8218	1.8218
13	**8-18-2023**	**11-17-2023**	1.0159	1.0159
14	**11-18-2023**	**2-17-2024**	0.9979	0.9979
15	**2-18-2024**	**5-17-2024**	0.9528	0.9528
16	**5-18-2024**	**8-17-2024**	0.8554	0.8554
17	**8-18-2024**	**9-30-2024**	2.3465	2.3465
		Highest	2.3465	2.3465

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9884	2.2000e-004	0.0243	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0472	0.0472	1.2000e-004	0.0000	0.0503
Energy	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	5,569.7185	5,569.7185	0.1304	0.0307	5,582.1209
Mobile	1.1429	5.2983	15.1797	0.0593	5.1621	0.0454	5.2074	1.3836	0.0422	1.4257	0.0000	5,489.1809	5,489.1809	0.2633	0.0000	5,495.7642
Waste						0.0000	0.0000		0.0000	0.0000	90.2518	0.0000	90.2518	5.3337	0.0000	223.5950
Water						0.0000	0.0000		0.0000	0.0000	26.3594	917.6657	944.0251	2.7290	0.0684	1,032.6375
Total	**3.1573**	**5.5351**	**15.4027**	**0.0608**	**5.1621**	**0.0634**	**5.2255**	**1.3836**	**0.0602**	**1.4438**	**116.6112**	**11,976.6124**	**12,093.2236**	**8.4566**	**0.0991**	**12,334.1679**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9884	2.2000e-004	0.0243	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0472	0.0472	1.2000e-004	0.0000	0.0503
Energy	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	5,569.7185	5,569.7185	0.1304	0.0307	5,582.1209
Mobile	1.1429	5.2983	15.1797	0.0593	5.1621	0.0454	5.2074	1.3836	0.0422	1.4257	0.0000	5,489.1809	5,489.1809	0.2633	0.0000	5,495.7642
Waste						0.0000	0.0000		0.0000	0.0000	90.2518	0.0000	90.2518	5.3337	0.0000	223.5950
Water						0.0000	0.0000		0.0000	0.0000	26.3594	917.6657	944.0251	2.7290	0.0684	1,032.6375
Total	**3.1573**	**5.5351**	**15.4027**	**0.0608**	**5.1621**	**0.0634**	**5.2255**	**1.3836**	**0.0602**	**1.4438**	**116.6112**	**11,976.6124**	**12,093.2236**	**8.4566**	**0.0991**	**12,334.1679**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Burbank De Soto Phase 3 Construction - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/16/2023	4/12/2023	5	20	
2	Site Preparation	Site Preparation	4/13/2023	4/26/2023	5	10	
3	Grading	Grading	4/27/2023	6/7/2023	5	30	
4	Building Construction	Building Construction	6/8/2023	7/31/2024	5	300	
5	Paving	Paving	8/1/2024	8/28/2024	5	20	
6	Architectural Coating	Architectural Coating	8/29/2024	9/25/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 12.84

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 714,237; Non-Residential Outdoor: 238,079; Striped Parking Area: 34,248 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase 3 Construction - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	0		9	0.56
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0		97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	880.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	17,838.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	392.00	172.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	78.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0374	0.0000	0.0374	5.6600e-003	0.0000	5.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
Total	**0.0227**	**0.2148**	**0.1964**	**3.9000e-004**	**0.0374**	**9.9800e-003**	**0.0474**	**5.6600e-003**	**9.2800e-003**	**0.0149**	**0.0000**	**33.9921**	**33.9921**	**9.5200e-003**	**0.0000**	**34.2301**

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3100e-003	0.0742	0.0255	3.2000e-004	7.5600e-003	1.3000e-004	7.7000e-003	2.0800e-003	1.3000e-004	2.2000e-003	0.0000	31.7619	31.7619	2.1300e-003	0.0000	31.8151
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.1000e-004	4.8100e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3789	1.3789	4.0000e-005	0.0000	1.3798
Total	**2.8800e-003**	**0.0746**	**0.0303**	**3.4000e-004**	**9.2000e-003**	**1.4000e-004**	**9.3600e-003**	**2.5200e-003**	**1.4000e-004**	**2.6500e-003**	**0.0000**	**33.1408**	**33.1408**	**2.1700e-003**	**0.0000**	**33.1948**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0374	0.0000	0.0374	5.6600e-003	0.0000	5.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
Total	**0.0227**	**0.2148**	**0.1964**	**3.9000e-004**	**0.0374**	**9.9800e-003**	**0.0474**	**5.6600e-003**	**9.2800e-003**	**0.0149**	**0.0000**	**33.9920**	**33.9920**	**9.5200e-003**	**0.0000**	**34.2300**

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3100e-003	0.0742	0.0255	3.2000e-004	7.5600e-003	1.3000e-004	7.7000e-003	2.0800e-003	1.3000e-004	2.2000e-003	0.0000	31.7619	31.7619	2.1300e-003	0.0000	31.8151
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.1000e-004	4.8100e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3789	1.3789	4.0000e-005	0.0000	1.3798
Total	**2.8800e-003**	**0.0746**	**0.0303**	**3.4000e-004**	**9.2000e-003**	**1.4000e-004**	**9.3600e-003**	**2.5200e-003**	**1.4000e-004**	**2.6500e-003**	**0.0000**	**33.1408**	**33.1408**	**2.1700e-003**	**0.0000**	**33.1948**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606
Total	**0.0133**	**0.1376**	**0.0912**	**1.9000e-004**	**0.0903**	**6.3300e-003**	**0.0967**	**0.0497**	**5.8200e-003**	**0.0555**	**0.0000**	**16.7254**	**16.7254**	**5.4100e-003**	**0.0000**	**16.8606**

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.5000e-004	2.8800e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8273	0.8273	2.0000e-005	0.0000	0.8279
Total	**3.4000e-004**	**2.5000e-004**	**2.8800e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8273**	**0.8273**	**2.0000e-005**	**0.0000**	**0.8279**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606
Total	**0.0133**	**0.1376**	**0.0912**	**1.9000e-004**	**0.0903**	**6.3300e-003**	**0.0967**	**0.0497**	**5.8200e-003**	**0.0555**	**0.0000**	**16.7253**	**16.7253**	**5.4100e-003**	**0.0000**	**16.8606**

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.5000e-004	2.8800e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8273	0.8273	2.0000e-005	0.0000	0.8279
Total	**3.4000e-004**	**2.5000e-004**	**2.8800e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8273**	**0.8273**	**2.0000e-005**	**0.0000**	**0.8279**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1360	0.0000	0.1360	0.0549	0.0000	0.0549	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642
Total	**0.0498**	**0.5177**	**0.4208**	**9.3000e-004**	**0.1360**	**0.0214**	**0.1574**	**0.0549**	**0.0197**	**0.0745**	**0.0000**	**81.8028**	**81.8028**	**0.0265**	**0.0000**	**82.4642**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0469	1.5035	0.5165	6.5200e-003	0.1533	2.6900e-003	0.1560	0.0421	2.5700e-003	0.0447	0.0000	643.8279	643.8279	0.0431	0.0000	644.9064
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.2000e-004	9.6100e-003	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7577	2.7577	7.0000e-005	0.0000	2.7595
Total	**0.0481**	**1.5043**	**0.5261**	**6.5500e-003**	**0.1566**	**2.7200e-003**	**0.1593**	**0.0430**	**2.5900e-003**	**0.0456**	**0.0000**	**646.5856**	**646.5856**	**0.0432**	**0.0000**	**647.6659**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1360	0.0000	0.1360	0.0549	0.0000	0.0549	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641
Total	**0.0498**	**0.5177**	**0.4208**	**9.3000e-004**	**0.1360**	**0.0214**	**0.1574**	**0.0549**	**0.0197**	**0.0745**	**0.0000**	**81.8027**	**81.8027**	**0.0265**	**0.0000**	**82.4641**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0469	1.5035	0.5165	6.5200e-003	0.1533	2.6900e-003	0.1560	0.0421	2.5700e-003	0.0447	0.0000	643.8279	643.8279	0.0431	0.0000	644.9064
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.2000e-004	9.6100e-003	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7577	2.7577	7.0000e-005	0.0000	2.7595
Total	**0.0481**	**1.5043**	**0.5261**	**6.5500e-003**	**0.1566**	**2.7200e-003**	**0.1593**	**0.0430**	**2.5900e-003**	**0.0456**	**0.0000**	**646.5856**	**646.5856**	**0.0432**	**0.0000**	**647.6659**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1156	1.0573	1.1939	1.9800e-003		0.0514	0.0514		0.0484	0.0484	0.0000	170.3765	170.3765	0.0405	0.0000	171.3897
Total	**0.1156**	**1.0573**	**1.1939**	**1.9800e-003**		**0.0514**	**0.0514**		**0.0484**	**0.0484**	**0.0000**	**170.3765**	**170.3765**	**0.0405**	**0.0000**	**171.3897**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0274	0.8956	0.2871	3.0800e-003	0.0796	1.0500e-003	0.0807	0.0230	1.0000e-003	0.0240	0.0000	299.2139	299.2139	0.0163	0.0000	299.6215
Worker	0.1093	0.0789	0.9232	2.9300e-003	0.3157	2.4500e-003	0.3182	0.0839	2.2600e-003	0.0861	0.0000	264.8513	264.8513	6.8200e-003	0.0000	265.0217
Total	**0.1367**	**0.9744**	**1.2103**	**6.0100e-003**	**0.3954**	**3.5000e-003**	**0.3989**	**0.1068**	**3.2600e-003**	**0.1101**	**0.0000**	**564.0652**	**564.0652**	**0.0231**	**0.0000**	**564.6433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1156	1.0573	1.1939	1.9800e-003		0.0514	0.0514		0.0484	0.0484	0.0000	170.3763	170.3763	0.0405	0.0000	171.3895
Total	**0.1156**	**1.0573**	**1.1939**	**1.9800e-003**		**0.0514**	**0.0514**		**0.0484**	**0.0484**	**0.0000**	**170.3763**	**170.3763**	**0.0405**	**0.0000**	**171.3895**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0274	0.8956	0.2871	3.0800e-003	0.0796	1.0500e-003	0.0807	0.0230	1.0000e-003	0.0240	0.0000	299.2139	299.2139	0.0163	0.0000	299.6215
Worker	0.1093	0.0789	0.9232	2.9300e-003	0.3157	2.4500e-003	0.3182	0.0839	2.2600e-003	0.0861	0.0000	264.8513	264.8513	6.8200e-003	0.0000	265.0217
Total	**0.1367**	**0.9744**	**1.2103**	**6.0100e-003**	**0.3954**	**3.5000e-003**	**0.3989**	**0.1068**	**3.2600e-003**	**0.1101**	**0.0000**	**564.0652**	**564.0652**	**0.0231**	**0.0000**	**564.6433**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1126	1.0285	1.2368	2.0600e-003		0.0469	0.0469		0.0441	0.0441	0.0000	177.3646	177.3646	0.0419	0.0000	178.4131
Total	**0.1126**	**1.0285**	**1.2368**	**2.0600e-003**		**0.0469**	**0.0469**		**0.0441**	**0.0441**	**0.0000**	**177.3646**	**177.3646**	**0.0419**	**0.0000**	**178.4131**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0278	0.9286	0.2897	3.1900e-003	0.0829	1.0700e-003	0.0840	0.0239	1.0200e-003	0.0250	0.0000	310.1861	310.1861	0.0167	0.0000	310.6040
Worker	0.1078	0.0748	0.8948	2.9500e-003	0.3286	2.5100e-003	0.3311	0.0873	2.3100e-003	0.0896	0.0000	267.1144	267.1144	6.5000e-003	0.0000	267.2770
Total	**0.1355**	**1.0034**	**1.1845**	**6.1400e-003**	**0.4115**	**3.5800e-003**	**0.4151**	**0.1112**	**3.3300e-003**	**0.1145**	**0.0000**	**577.3004**	**577.3004**	**0.0232**	**0.0000**	**577.8810**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1126	1.0285	1.2368	2.0600e-003		0.0469	0.0469		0.0441	0.0441	0.0000	177.3644	177.3644	0.0419	0.0000	178.4129
Total	**0.1126**	**1.0285**	**1.2368**	**2.0600e-003**		**0.0469**	**0.0469**		**0.0441**	**0.0441**	**0.0000**	**177.3644**	**177.3644**	**0.0419**	**0.0000**	**178.4129**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0278	0.9286	0.2897	3.1900e-003	0.0829	1.0700e-003	0.0840	0.0239	1.0200e-003	0.0250	0.0000	310.1861	310.1861	0.0167	0.0000	310.6040
Worker	0.1078	0.0748	0.8948	2.9500e-003	0.3286	2.5100e-003	0.3311	0.0873	2.3100e-003	0.0896	0.0000	267.1144	267.1144	6.5000e-003	0.0000	267.2770
Total	**0.1355**	**1.0034**	**1.1845**	**6.1400e-003**	**0.4115**	**3.5800e-003**	**0.4151**	**0.1112**	**3.3300e-003**	**0.1145**	**0.0000**	**577.3004**	**577.3004**	**0.0232**	**0.0000**	**577.8810**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8800e-003**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1885**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.4800e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3361	1.3361	3.0000e-005	0.0000	1.3369
Total	**5.4000e-004**	**3.7000e-004**	**4.4800e-003**	**1.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3361**	**1.3361**	**3.0000e-005**	**0.0000**	**1.3369**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8800e-003**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1884**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	4.4800e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3361	1.3361	3.0000e-005	0.0000	1.3369
Total	**5.4000e-004**	**3.7000e-004**	**4.4800e-003**	**1.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3361**	**1.3361**	**3.0000e-005**	**0.0000**	**1.3369**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2864					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	**2.2882**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5569**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-003	1.9500e-003	0.0233	8.0000e-005	8.5500e-003	7.0000e-005	8.6100e-003	2.2700e-003	6.0000e-005	2.3300e-003	0.0000	6.9478	6.9478	1.7000e-004	0.0000	6.9520
Total	**2.8000e-003**	**1.9500e-003**	**0.0233**	**8.0000e-005**	**8.5500e-003**	**7.0000e-005**	**8.6100e-003**	**2.2700e-003**	**6.0000e-005**	**2.3300e-003**	**0.0000**	**6.9478**	**6.9478**	**1.7000e-004**	**0.0000**	**6.9520**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2864					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	**2.2882**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5568**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-003	1.9500e-003	0.0233	8.0000e-005	8.5500e-003	7.0000e-005	8.6100e-003	2.2700e-003	6.0000e-005	2.3300e-003	0.0000	6.9478	6.9478	1.7000e-004	0.0000	6.9520
Total	**2.8000e-003**	**1.9500e-003**	**0.0233**	**8.0000e-005**	**8.5500e-003**	**7.0000e-005**	**8.6100e-003**	**2.2700e-003**	**6.0000e-005**	**2.3300e-003**	**0.0000**	**6.9478**	**6.9478**	**1.7000e-004**	**0.0000**	**6.9520**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1429	5.2983	15.1797	0.0593	5.1621	0.0454	5.2074	1.3836	0.0422	1.4257	0.0000	5,489.1809	5,489.1809	0.2633	0.0000	5,495.7642
Unmitigated	1.1429	5.2983	15.1797	0.0593	5.1621	0.0454	5.2074	1.3836	0.0422	1.4257	0.0000	5,489.1809	5,489.1809	0.2633	0.0000	5,495.7642

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	2,610.91	582.31	248.55	6,390,186	6,390,186
General Office Building	2,476.90	552.42	235.79	6,062,186	6,062,186
Strip Mall	659.92	625.98	304.20	1,149,657	1,149,657
Total	5,747.73	1,760.70	788.54	13,602,030	13,602,030

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,312.1740	5,312.1740	0.1255	0.0260	5,323.0459
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,312.1740	5,312.1740	0.1255	0.0260	5,323.0459
NaturalGas Mitigated	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	257.5445	257.5445	4.9400e-003	4.7200e-003	259.0750
NaturalGas Unmitigated	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	257.5445	257.5445	4.9400e-003	4.7200e-003	259.0750

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.33763e+006	0.0126	0.1146	0.0963	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003	0.0000	124.7447	124.7447	2.3900e-003	2.2900e-003	125.4860
General Office Building	2.46415e+006	0.0133	0.1208	0.1015	7.2000e-004		9.1800e-003	9.1800e-003		9.1800e-003	9.1800e-003	0.0000	131.4965	131.4965	2.5200e-003	2.4100e-003	132.2779
Strip Mall	24422.9	1.3000e-004	1.2000e-003	1.0100e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3033	1.3033	2.0000e-005	2.0000e-005	1.3110
Total		**0.0260**	**0.2366**	**0.1987**	**1.4200e-003**		**0.0180**	**0.0180**		**0.0180**	**0.0180**	**0.0000**	**257.5445**	**257.5445**	**4.9300e-003**	**4.7200e-003**	**259.0750**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.33763e+006	0.0126	0.1146	0.0963	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003	0.0000	124.7447	124.7447	2.3900e-003	2.2900e-003	125.4860
General Office Building	2.46415e+006	0.0133	0.1208	0.1015	7.2000e-004		9.1800e-003	9.1800e-003		9.1800e-003	9.1800e-003	0.0000	131.4965	131.4965	2.5200e-003	2.4100e-003	132.2779
Strip Mall	24422.9	1.3000e-004	1.2000e-003	1.0100e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3033	1.3033	2.0000e-005	2.0000e-005	1.3110
Total		**0.0260**	**0.2366**	**0.1987**	**1.4200e-003**		**0.0180**	**0.0180**		**0.0180**	**0.0180**	**0.0000**	**257.5445**	**257.5445**	**4.9300e-003**	**4.7200e-003**	**259.0750**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	3.34489e+006	1,862.9740	0.0440	9.1000e-003	1,866.7867
General Office Building	2.91698e+006	1,624.6470	0.0384	7.9400e-003	1,627.9720
General Office Building	3.07486e+006	1,712.5804	0.0405	8.3700e-003	1,716.0853
Strip Mall	201042	111.9727	2.6400e-003	5.5000e-004	112.2018
Total		**5,312.1740**	**0.1255**	**0.0260**	**5,323.0459**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	3.34489e+006	1,862.9740	0.0440	9.1000e-003	1,866.7867
General Office Building	2.91698e+006	1,624.6470	0.0384	7.9400e-003	1,627.9720
General Office Building	3.07486e+006	1,712.5804	0.0405	8.3700e-003	1,716.0853
Strip Mall	201042	111.9727	2.6400e-003	5.5000e-004	112.2018
Total		**5,312.1740**	**0.1255**	**0.0260**	**5,323.0459**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9884	2.2000e-004	0.0243	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0472	0.0472	1.2000e-004	0.0000	0.0503
Unmitigated	1.9884	2.2000e-004	0.0243	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0472	0.0472	1.2000e-004	0.0000	0.0503

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2286					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7575					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2400e-003	2.2000e-004	0.0243	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0472	0.0472	1.2000e-004	0.0000	0.0503
Total	**1.9884**	**2.2000e-004**	**0.0243**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0472**	**0.0472**	**1.2000e-004**	**0.0000**	**0.0503**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2286					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7575					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2400e-003	2.2000e-004	0.0243	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0472	0.0472	1.2000e-004	0.0000	0.0503
Total	**1.9884**	**2.2000e-004**	**0.0243**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0472**	**0.0472**	**1.2000e-004**	**0.0000**	**0.0503**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	944.0251	2.7290	0.0684	1,032.6375
Unmitigated	944.0251	2.7290	0.0684	1,032.6375

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	81.9832 / 50.2478	931.4935	2.6928	0.0675	1,018.9296
Strip Mall	1.10294 / 0.675995	12.5316	0.0362	9.1000e-004	13.7079
Total		**944.0251**	**2.7290**	**0.0684**	**1,032.6375**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	81.9832 / 50.2478	931.4935	2.6928	0.0675	1,018.9296
Strip Mall	1.10294 / 0.675995	12.5316	0.0362	9.1000e-004	13.7079
Total		**944.0251**	**2.7290**	**0.0684**	**1,032.6375**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.2518	5.3337	0.0000	223.5950
Unmitigated	90.2518	5.3337	0.0000	223.5950

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	428.98	87.0791	5.1462	0.0000	215.7347
Strip Mall	15.63	3.1728	0.1875	0.0000	7.8604
Total		**90.2518**	**5.3337**	**0.0000**	**223.5950**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	428.98	87.0791	5.1462	0.0000	215.7347
Strip Mall	15.63	3.1728	0.1875	0.0000	7.8604
Total		**90.2518**	**5.3337**	**0.0000**	**223.5950**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase 3 Construction

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	236.71	1000sqft	0.70	236,710.00	0
General Office Building	224.56	1000sqft	0.67	224,556.00	0
Enclosed Parking with Elevator	1,427.00	Space	12.84	570,800.00	0
Strip Mall	14.89	1000sqft	0.04	14,892.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about construction equipment list changes.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about material export and acres of grading.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - See SWAPE comment about equipment unit amounts and usage hours.

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	105,000.00
tblLandUse	LandUseSquareFeet	224,560.00	224,556.00
tblLandUse	LandUseSquareFeet	14,890.00	14,892.00
tblLandUse	LotAcreage	5.16	0.67
tblLandUse	LotAcreage	5.43	0.70
tblLandUse	LotAcreage	0.34	0.04
tblTripsAndVMT	HaulingTripNumber	346.00	880.00
tblTripsAndVMT	HaulingTripNumber	13,125.00	17,838.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	6.4917	132.3099	62.5261	0.5019	19.6905	1.6033	21.2938	9.9840	1.4815	11.1502	0.0000	53,884.2181	53,884.2181	5.0810	0.0000	54,011.2423
2024	229.0952	26.3084	32.2892	0.1095	5.4829	0.6599	6.1428	1.4791	0.6203	2.0994	0.0000	11,097.1443	11,097.1443	0.9376	0.0000	11,120.5849
Maximum	**229.0952**	**132.3099**	**62.5261**	**0.5019**	**19.6905**	**1.6033**	**21.2938**	**9.9840**	**1.4815**	**11.1502**	**0.0000**	**53,884.2181**	**53,884.2181**	**5.0810**	**0.0000**	**54,011.2423**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	6.4917	132.3099	62.5261	0.5019	19.6905	1.6033	21.2938	9.9840	1.4815	11.1502	0.0000	53,884.2181	53,884.2181	5.0810	0.0000	54,011.2423
2024	229.0952	26.3084	32.2892	0.1095	5.4829	0.6599	6.1428	1.4791	0.6203	2.0994	0.0000	11,097.1443	11,097.1443	0.9376	0.0000	11,120.5849
Maximum	**229.0952**	**132.3099**	**62.5261**	**0.5019**	**19.6905**	**1.6033**	**21.2938**	**9.9840**	**1.4815**	**11.1502**	**0.0000**	**53,884.2181**	**53,884.2181**	**5.0810**	**0.0000**	**54,011.2423**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.9008	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Energy	0.1426	1.2963	1.0889	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.5848	1,555.5848	0.0298	0.0285	1,564.8289
Mobile	8.5781	36.1811	112.2067	0.4379	37.5194	0.3228	37.8422	10.0397	0.3001	10.3397		44,641.6212	44,641.6212	2.0792		44,693.6002
Total	**19.6215**	**37.4792**	**113.4896**	**0.4457**	**37.5194**	**0.4220**	**37.9414**	**10.0397**	**0.3993**	**10.4390**		**46,197.6226**	**46,197.6226**	**2.1101**	**0.0285**	**46,258.8728**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.9008	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Energy	0.1426	1.2963	1.0889	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.5848	1,555.5848	0.0298	0.0285	1,564.8289
Mobile	8.5781	36.1811	112.2067	0.4379	37.5194	0.3228	37.8422	10.0397	0.3001	10.3397		44,641.6212	44,641.6212	2.0792		44,693.6002
Total	**19.6215**	**37.4792**	**113.4896**	**0.4457**	**37.5194**	**0.4220**	**37.9414**	**10.0397**	**0.3993**	**10.4390**		**46,197.6226**	**46,197.6226**	**2.1101**	**0.0285**	**46,258.8728**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/16/2023	4/12/2023	5	20	
2	Site Preparation	Site Preparation	4/13/2023	4/26/2023	5	10	
3	Grading	Grading	4/27/2023	6/7/2023	5	30	
4	Building Construction	Building Construction	6/8/2023	7/31/2024	5	300	
5	Paving	Paving	8/1/2024	8/28/2024	5	20	
6	Architectural Coating	Architectural Coating	8/29/2024	9/25/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 12.84

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 714,237; Non-Residential Outdoor: 238,079; Striped Parking Area: 34,248 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase 3 Construction - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	0		9	0.56
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0		97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	880.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	17,838.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	392.00	172.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	78.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7406	0.0000	3.7406	0.5664	0.0000	0.5664			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**3.7406**	**0.9975**	**4.7381**	**0.5664**	**0.9280**	**1.4943**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2290	7.2332	2.5005	0.0324	0.7694	0.0131	0.7825	0.2109	0.0125	0.2235		3,526.8852	3,526.8852	0.2317		3,532.6780
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
Total	**0.2856**	**7.2693**	**3.0138**	**0.0340**	**0.9371**	**0.0144**	**0.9515**	**0.2554**	**0.0137**	**0.2691**		**3,685.6575**	**3,685.6575**	**0.2358**		**3,691.5528**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7406	0.0000	3.7406	0.5664	0.0000	0.5664			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**3.7406**	**0.9975**	**4.7381**	**0.5664**	**0.9280**	**1.4943**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2290	7.2332	2.5005	0.0324	0.7694	0.0131	0.7825	0.2109	0.0125	0.2235		3,526.8852	3,526.8852	0.2317		3,532.6780
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
Total	**0.2856**	**7.2693**	**3.0138**	**0.0340**	**0.9371**	**0.0144**	**0.9515**	**0.2554**	**0.0137**	**0.2691**		**3,685.6575**	**3,685.6575**	**0.2358**		**3,691.5528**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**18.0663**	**1.2660**	**19.3323**	**9.9307**	**1.1647**	**11.0954**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0433	0.6160	1.9100e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		190.5268	190.5268	4.9200e-003		190.6498
Total	**0.0679**	**0.0433**	**0.6160**	**1.9100e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**190.5268**	**190.5268**	**4.9200e-003**		**190.6498**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**18.0663**	**1.2660**	**19.3323**	**9.9307**	**1.1647**	**11.0954**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0433	0.6160	1.9100e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		190.5268	190.5268	4.9200e-003		190.6498
Total	**0.0679**	**0.0433**	**0.6160**	**1.9100e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**190.5268**	**190.5268**	**4.9200e-003**		**190.6498**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0692	0.0000	9.0692	3.6564	0.0000	3.6564			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**9.0692**	**1.4245**	**10.4936**	**3.6564**	**1.3105**	**4.9670**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0945	97.7461	33.7905	0.4377	10.3978	0.1771	10.5749	2.8503	0.1694	3.0197		47,661.0440	47,661.0440	3.1313		47,739.3256
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331
Total	**3.1699**	**97.7943**	**34.4750**	**0.4398**	**10.6214**	**0.1788**	**10.8002**	**2.9096**	**0.1710**	**3.0806**		**47,872.7404**	**47,872.7404**	**3.1367**		**47,951.1587**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0692	0.0000	9.0692	3.6564	0.0000	3.6564			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**9.0692**	**1.4245**	**10.4936**	**3.6564**	**1.3105**	**4.9670**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0945	97.7461	33.7905	0.4377	10.3978	0.1771	10.5749	2.8503	0.1694	3.0197		47,661.0440	47,661.0440	3.1313		47,739.3256
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331
Total	**3.1699**	**97.7943**	**34.4750**	**0.4398**	**10.6214**	**0.1788**	**10.8002**	**2.9096**	**0.1710**	**3.0806**		**47,872.7404**	**47,872.7404**	**3.1367**		**47,951.1587**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3640	12.0498	3.7304	0.0424	1.1012	0.0139	1.1151	0.3171	0.0133	0.3304		4,539.2078	4,539.2078	0.2383		4,545.1662
Worker	1.4781	0.9439	13.4148	0.0416	4.3816	0.0333	4.4150	1.1620	0.0307	1.1927		4,149.2494	4,149.2494	0.1072		4,151.9289
Total	**1.8421**	**12.9937**	**17.1452**	**0.0840**	**5.4829**	**0.0472**	**5.5301**	**1.4791**	**0.0440**	**1.5231**		**8,688.4572**	**8,688.4572**	**0.3455**		**8,697.0951**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3640	12.0498	3.7304	0.0424	1.1012	0.0139	1.1151	0.3171	0.0133	0.3304		4,539.2078	4,539.2078	0.2383		4,545.1662
Worker	1.4781	0.9439	13.4148	0.0416	4.3816	0.0333	4.4150	1.1620	0.0307	1.1927		4,149.2494	4,149.2494	0.1072		4,151.9289
Total	**1.8421**	**12.9937**	**17.1452**	**0.0840**	**5.4829**	**0.0472**	**5.5301**	**1.4791**	**0.0440**	**1.5231**		**8,688.4572**	**8,688.4572**	**0.3455**		**8,697.0951**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3553	12.0038	3.6168	0.0422	1.1013	0.0137	1.1150	0.3171	0.0131	0.3302		4,520.7866	4,520.7866	0.2349		4,526.6602
Worker	1.3982	0.8608	12.5057	0.0403	4.3816	0.0328	4.4145	1.1620	0.0302	1.1923		4,020.6588	4,020.6588	0.0983		4,023.1170
Total	**1.7535**	**12.8646**	**16.1224**	**0.0825**	**5.4829**	**0.0466**	**5.5295**	**1.4791**	**0.0434**	**1.5225**		**8,541.4454**	**8,541.4454**	**0.3333**		**8,549.7772**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3553	12.0038	3.6168	0.0422	1.1013	0.0137	1.1150	0.3171	0.0131	0.3302		4,520.7866	4,520.7866	0.2349		4,526.6602
Worker	1.3982	0.8608	12.5057	0.0403	4.3816	0.0328	4.4145	1.1620	0.0302	1.1923		4,020.6588	4,020.6588	0.0983		4,023.1170
Total	**1.7535**	**12.8646**	**16.1224**	**0.0825**	**5.4829**	**0.0466**	**5.5295**	**1.4791**	**0.0434**	**1.5225**		**8,541.4454**	**8,541.4454**	**0.3333**		**8,549.7772**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
Total	**0.0535**	**0.0329**	**0.4785**	**1.5400e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**153.8517**	**153.8517**	**3.7600e-003**		**153.9458**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
Total	**0.0535**	**0.0329**	**0.4785**	**1.5400e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**153.8517**	**153.8517**	**3.7600e-003**		**153.9458**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	228.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**228.8170**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2782	0.1713	2.4884	8.0300e-003	0.8719	6.5300e-003	0.8784	0.2312	6.0200e-003	0.2372		800.0291	800.0291	0.0196		800.5182
Total	**0.2782**	**0.1713**	**2.4884**	**8.0300e-003**	**0.8719**	**6.5300e-003**	**0.8784**	**0.2312**	**6.0200e-003**	**0.2372**		**800.0291**	**800.0291**	**0.0196**		**800.5182**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	228.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**228.8170**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2782	0.1713	2.4884	8.0300e-003	0.8719	6.5300e-003	0.8784	0.2312	6.0200e-003	0.2372		800.0291	800.0291	0.0196		800.5182
Total	**0.2782**	**0.1713**	**2.4884**	**8.0300e-003**	**0.8719**	**6.5300e-003**	**0.8784**	**0.2312**	**6.0200e-003**	**0.2372**		**800.0291**	**800.0291**	**0.0196**		**800.5182**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.5781	36.1811	112.2067	0.4379	37.5194	0.3228	37.8422	10.0397	0.3001	10.3397		44,641.6212	44,641.6212	2.0792		44,693.6002
Unmitigated	8.5781	36.1811	112.2067	0.4379	37.5194	0.3228	37.8422	10.0397	0.3001	10.3397		44,641.6212	44,641.6212	2.0792		44,693.6002

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	2,610.91	582.31	248.55	6,390,186	6,390,186
General Office Building	2,476.90	552.42	235.79	6,062,186	6,062,186
Strip Mall	659.92	625.98	304.20	1,149,657	1,149,657
Total	5,747.73	1,760.70	788.54	13,602,030	13,602,030

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1426	1.2963	1.0889	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.5848	1,555.5848	0.0298	0.0285	1,564.8289
NaturalGas Unmitigated	0.1426	1.2963	1.0889	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.5848	1,555.5848	0.0298	0.0285	1,564.8289

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	6404.46	0.0691	0.6279	0.5274	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.4659	753.4659	0.0144	0.0138	757.9434
General Office Building	6751.1	0.0728	0.6619	0.5560	3.9700e-003		0.0503	0.0503		0.0503	0.0503		794.2469	794.2469	0.0152	0.0146	798.9667
Strip Mall	66.912	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.8720	7.8720	1.5000e-004	1.4000e-004	7.9188
Total		**0.1426**	**1.2963**	**1.0889**	**7.7800e-003**		**0.0985**	**0.0985**		**0.0985**	**0.0985**		**1,555.5848**	**1,555.5848**	**0.0298**	**0.0285**	**1,564.8289**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	6.40446	0.0691	0.6279	0.5274	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.4659	753.4659	0.0144	0.0138	757.9434
General Office Building	6.7511	0.0728	0.6619	0.5560	3.9700e-003		0.0503	0.0503		0.0503	0.0503		794.2469	794.2469	0.0152	0.0146	798.9667
Strip Mall	0.066912	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.8720	7.8720	1.5000e-004	1.4000e-004	7.9188
Total		**0.1426**	**1.2963**	**1.0889**	**7.7800e-003**		**0.0985**	**0.0985**		**0.0985**	**0.0985**		**1,555.5848**	**1,555.5848**	**0.0298**	**0.0285**	**1,564.8289**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.9008	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Unmitigated	10.9008	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0179	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Total	**10.9008**	**1.7600e-003**	**0.1940**	**1.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**		**0.4165**	**0.4165**	**1.0900e-003**		**0.4437**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0179	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Total	**10.9008**	**1.7600e-003**	**0.1940**	**1.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**		**0.4165**	**0.4165**	**1.0900e-003**		**0.4437**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto Phase 3 Construction

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	236.71	1000sqft	0.70	236,710.00	0
General Office Building	224.56	1000sqft	0.67	224,556.00	0
Enclosed Parking with Elevator	1,427.00	Space	12.84	570,800.00	0
Strip Mall	14.89	1000sqft	0.04	14,892.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about parking land use types.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE comment about construction equipment list changes.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about material export and acres of grading.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - See SWAPE comment about equipment unit amounts and usage hours.

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	105,000.00
tblLandUse	LandUseSquareFeet	224,560.00	224,556.00
tblLandUse	LandUseSquareFeet	14,890.00	14,892.00
tblLandUse	LotAcreage	5.16	0.67
tblLandUse	LotAcreage	5.43	0.70
tblLandUse	LotAcreage	0.34	0.04
tblTripsAndVMT	HaulingTripNumber	346.00	880.00
tblTripsAndVMT	HaulingTripNumber	13,125.00	17,838.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	6.5782	133.0020	63.9096	0.4941	19.6905	1.6082	21.2987	9.9840	1.4862	11.1502	0.0000	53,043.7900	53,043.7900	5.1702	0.0000	53,173.0458
2024	229.1293	26.3479	31.4832	0.1060	5.4829	0.6605	6.1434	1.4791	0.6209	2.1000	0.0000	10,740.4735	10,740.4735	0.9448	0.0000	10,764.0938
Maximum	**229.1293**	**133.0020**	**63.9096**	**0.4941**	**19.6905**	**1.6082**	**21.2987**	**9.9840**	**1.4862**	**11.1502**	**0.0000**	**53,043.7900**	**53,043.7900**	**5.1702**	**0.0000**	**53,173.0458**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	6.5782	133.0020	63.9096	0.4941	19.6905	1.6082	21.2987	9.9840	1.4862	11.1502	0.0000	53,043.7900	53,043.7900	5.1702	0.0000	53,173.0458
2024	229.1293	26.3479	31.4832	0.1060	5.4829	0.6605	6.1434	1.4791	0.6209	2.1000	0.0000	10,740.4735	10,740.4735	0.9448	0.0000	10,764.0938
Maximum	**229.1293**	**133.0020**	**63.9096**	**0.4941**	**19.6905**	**1.6082**	**21.2987**	**9.9840**	**1.4862**	**11.1502**	**0.0000**	**53,043.7900**	**53,043.7900**	**5.1702**	**0.0000**	**53,173.0458**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.9008	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Energy	0.1426	1.2963	1.0889	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.5848	1,555.5848	0.0298	0.0285	1,564.8289
Mobile	8.3055	36.9794	106.4888	0.4167	37.5194	0.3242	37.8436	10.0397	0.3014	10.3411		42,504.4783	42,504.4783	2.0750		42,556.3528
Total	**19.3489**	**38.2774**	**107.7717**	**0.4245**	**37.5194**	**0.4234**	**37.9428**	**10.0397**	**0.4006**	**10.4403**		**44,060.4796**	**44,060.4796**	**2.1059**	**0.0285**	**44,121.6254**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.9008	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Energy	0.1426	1.2963	1.0889	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.5848	1,555.5848	0.0298	0.0285	1,564.8289
Mobile	8.3055	36.9794	106.4888	0.4167	37.5194	0.3242	37.8436	10.0397	0.3014	10.3411		42,504.4783	42,504.4783	2.0750		42,556.3528
Total	**19.3489**	**38.2774**	**107.7717**	**0.4245**	**37.5194**	**0.4234**	**37.9428**	**10.0397**	**0.4006**	**10.4403**		**44,060.4796**	**44,060.4796**	**2.1059**	**0.0285**	**44,121.6254**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/16/2023	4/12/2023	5	20	
2	Site Preparation	Site Preparation	4/13/2023	4/26/2023	5	10	
3	Grading	Grading	4/27/2023	6/7/2023	5	30	
4	Building Construction	Building Construction	6/8/2023	7/31/2024	5	300	
5	Paving	Paving	8/1/2024	8/28/2024	5	20	
6	Architectural Coating	Architectural Coating	8/29/2024	9/25/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 12.84

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 714,237; Non-Residential Outdoor: 238,079; Striped Parking Area: 34,248 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto Phase 3 Construction - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	0		9	0.56
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0		97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	880.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	17,838.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	392.00	172.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	78.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7406	0.0000	3.7406	0.5664	0.0000	0.5664			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**3.7406**	**0.9975**	**4.7381**	**0.5664**	**0.9280**	**1.4943**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2347	7.2840	2.6074	0.0318	0.7694	0.0135	0.7829	0.2109	0.0129	0.2238		3,465.6081	3,465.6081	0.2383		3,471.5667
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
Total	**0.2980**	**7.3239**	**3.0750**	**0.0333**	**0.9371**	**0.0148**	**0.9518**	**0.2554**	**0.0141**	**0.2695**		**3,615.1162**	**3,615.1162**	**0.2422**		**3,621.1710**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7406	0.0000	3.7406	0.5664	0.0000	0.5664			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**3.7406**	**0.9975**	**4.7381**	**0.5664**	**0.9280**	**1.4943**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2347	7.2840	2.6074	0.0318	0.7694	0.0135	0.7829	0.2109	0.0129	0.2238		3,465.6081	3,465.6081	0.2383		3,471.5667
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
Total	**0.2980**	**7.3239**	**3.0750**	**0.0333**	**0.9371**	**0.0148**	**0.9518**	**0.2554**	**0.0141**	**0.2695**		**3,615.1162**	**3,615.1162**	**0.2422**		**3,621.1710**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**18.0663**	**1.2660**	**19.3323**	**9.9307**	**1.1647**	**11.0954**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0759	0.0480	0.5612	1.8000e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		179.4097	179.4097	4.6200e-003		179.5251
Total	**0.0759**	**0.0480**	**0.5612**	**1.8000e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**179.4097**	**179.4097**	**4.6200e-003**		**179.5251**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**18.0663**	**1.2660**	**19.3323**	**9.9307**	**1.1647**	**11.0954**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0759	0.0480	0.5612	1.8000e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		179.4097	179.4097	4.6200e-003		179.5251
Total	**0.0759**	**0.0480**	**0.5612**	**1.8000e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**179.4097**	**179.4097**	**4.6200e-003**		**179.5251**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0692	0.0000	9.0692	3.6564	0.0000	3.6564			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**9.0692**	**1.4245**	**10.4936**	**3.6564**	**1.3105**	**4.9670**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1721	98.4331	35.2349	0.4301	10.3978	0.1820	10.5799	2.8503	0.1741	3.0245		46,832.9682	46,832.9682	3.2209		46,913.4899
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
Total	**3.2565**	**98.4864**	**35.8585**	**0.4321**	**10.6214**	**0.1837**	**10.8051**	**2.9096**	**0.1757**	**3.0853**		**47,032.3123**	**47,032.3123**	**3.2260**		**47,112.9623**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0692	0.0000	9.0692	3.6564	0.0000	3.6564			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**9.0692**	**1.4245**	**10.4936**	**3.6564**	**1.3105**	**4.9670**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1721	98.4331	35.2349	0.4301	10.3978	0.1820	10.5799	2.8503	0.1741	3.0245		46,832.9682	46,832.9682	3.2209		46,913.4899
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
Total	**3.2565**	**98.4864**	**35.8585**	**0.4321**	**10.6214**	**0.1837**	**10.8051**	**2.9096**	**0.1757**	**3.0853**		**47,032.3123**	**47,032.3123**	**3.2260**		**47,112.9623**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3828	11.9951	4.0620	0.0412	1.1012	0.0146	1.1159	0.3171	0.0140	0.3311		4,415.9505	4,415.9505	0.2522		4,422.2543
Worker	1.6539	1.0443	12.2213	0.0392	4.3816	0.0333	4.4150	1.1620	0.0307	1.1927		3,907.1447	3,907.1447	0.1006		3,909.6584
Total	**2.0367**	**13.0393**	**16.2832**	**0.0804**	**5.4829**	**0.0480**	**5.5308**	**1.4791**	**0.0447**	**1.5238**		**8,323.0952**	**8,323.0952**	**0.3527**		**8,331.9127**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3828	11.9951	4.0620	0.0412	1.1012	0.0146	1.1159	0.3171	0.0140	0.3311		4,415.9505	4,415.9505	0.2522		4,422.2543
Worker	1.6539	1.0443	12.2213	0.0392	4.3816	0.0333	4.4150	1.1620	0.0307	1.1927		3,907.1447	3,907.1447	0.1006		3,909.6584
Total	**2.0367**	**13.0393**	**16.2832**	**0.0804**	**5.4829**	**0.0480**	**5.5308**	**1.4791**	**0.0447**	**1.5238**		**8,323.0952**	**8,323.0952**	**0.3527**		**8,331.9127**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3734	11.9520	3.9388	0.0411	1.1013	0.0144	1.1156	0.3171	0.0138	0.3308		4,398.8238	4,398.8238	0.2483		4,405.0320
Worker	1.5694	0.9521	11.3775	0.0380	4.3816	0.0328	4.4145	1.1620	0.0302	1.1923		3,785.9508	3,785.9508	0.0921		3,788.2541
Total	**1.9428**	**12.9041**	**15.3163**	**0.0790**	**5.4829**	**0.0472**	**5.5301**	**1.4791**	**0.0440**	**1.5231**		**8,184.7746**	**8,184.7746**	**0.3405**		**8,193.2861**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3734	11.9520	3.9388	0.0411	1.1013	0.0144	1.1156	0.3171	0.0138	0.3308		4,398.8238	4,398.8238	0.2483		4,405.0320
Worker	1.5694	0.9521	11.3775	0.0380	4.3816	0.0328	4.4145	1.1620	0.0302	1.1923		3,785.9508	3,785.9508	0.0921		3,788.2541
Total	**1.9428**	**12.9041**	**15.3163**	**0.0790**	**5.4829**	**0.0472**	**5.5301**	**1.4791**	**0.0440**	**1.5231**		**8,184.7746**	**8,184.7746**	**0.3405**		**8,193.2861**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
Total	**0.0601**	**0.0364**	**0.4354**	**1.4500e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**144.8706**	**144.8706**	**3.5300e-003**		**144.9587**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
Total	**0.0601**	**0.0364**	**0.4354**	**1.4500e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**144.8706**	**144.8706**	**3.5300e-003**		**144.9587**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	228.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**228.8170**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3123	0.1894	2.2639	7.5600e-003	0.8719	6.5300e-003	0.8784	0.2312	6.0200e-003	0.2372		753.3270	753.3270	0.0183		753.7853
Total	**0.3123**	**0.1894**	**2.2639**	**7.5600e-003**	**0.8719**	**6.5300e-003**	**0.8784**	**0.2312**	**6.0200e-003**	**0.2372**		**753.3270**	**753.3270**	**0.0183**		**753.7853**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	228.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**228.8170**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3123	0.1894	2.2639	7.5600e-003	0.8719	6.5300e-003	0.8784	0.2312	6.0200e-003	0.2372		753.3270	753.3270	0.0183		753.7853
Total	**0.3123**	**0.1894**	**2.2639**	**7.5600e-003**	**0.8719**	**6.5300e-003**	**0.8784**	**0.2312**	**6.0200e-003**	**0.2372**		**753.3270**	**753.3270**	**0.0183**		**753.7853**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3055	36.9794	106.4888	0.4167	37.5194	0.3242	37.8436	10.0397	0.3014	10.3411		42,504.4783	42,504.4783	2.0750		42,556.3528
Unmitigated	8.3055	36.9794	106.4888	0.4167	37.5194	0.3242	37.8436	10.0397	0.3014	10.3411		42,504.4783	42,504.4783	2.0750		42,556.3528

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	2,610.91	582.31	248.55	6,390,186	6,390,186
General Office Building	2,476.90	552.42	235.79	6,062,186	6,062,186
Strip Mall	659.92	625.98	304.20	1,149,657	1,149,657
Total	5,747.73	1,760.70	788.54	13,602,030	13,602,030

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1426	1.2963	1.0889	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.5848	1,555.5848	0.0298	0.0285	1,564.8289
NaturalGas Unmitigated	0.1426	1.2963	1.0889	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.5848	1,555.5848	0.0298	0.0285	1,564.8289

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	6404.46	0.0691	0.6279	0.5274	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.4659	753.4659	0.0144	0.0138	757.9434
General Office Building	6751.1	0.0728	0.6619	0.5560	3.9700e-003		0.0503	0.0503		0.0503	0.0503		794.2469	794.2469	0.0152	0.0146	798.9667
Strip Mall	66.912	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.8720	7.8720	1.5000e-004	1.4000e-004	7.9188
Total		**0.1426**	**1.2963**	**1.0889**	**7.7800e-003**		**0.0985**	**0.0985**		**0.0985**	**0.0985**		**1,555.5848**	**1,555.5848**	**0.0298**	**0.0285**	**1,564.8289**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	6.40446	0.0691	0.6279	0.5274	3.7700e-003		0.0477	0.0477		0.0477	0.0477		753.4659	753.4659	0.0144	0.0138	757.9434
General Office Building	6.7511	0.0728	0.6619	0.5560	3.9700e-003		0.0503	0.0503		0.0503	0.0503		794.2469	794.2469	0.0152	0.0146	798.9667
Strip Mall	0.066912	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.8720	7.8720	1.5000e-004	1.4000e-004	7.9188
Total		**0.1426**	**1.2963**	**1.0889**	**7.7800e-003**		**0.0985**	**0.0985**		**0.0985**	**0.0985**		**1,555.5848**	**1,555.5848**	**0.0298**	**0.0285**	**1,564.8289**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.9008	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Unmitigated	10.9008	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0179	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Total	**10.9008**	**1.7600e-003**	**0.1940**	**1.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**		**0.4165**	**0.4165**	**1.0900e-003**		**0.4437**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0179	1.7600e-003	0.1940	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		0.4165	0.4165	1.0900e-003		0.4437
Total	**10.9008**	**1.7600e-003**	**0.1940**	**1.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**		**0.4165**	**0.4165**	**1.0900e-003**		**0.4437**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto - Phase 4

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	193.00	Space	1.74	77,200.00	0
Parking Lot	2.00	Space	0.02	800.00	0
High Turnover (Sit Down Restaurant)	4.47	1000sqft	0.10	4,466.00	0
Hotel	228.00	Room	2.40	157,535.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2029
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about land use types and sizes.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE commetn about off-road equipment unit amounts.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about material export and acres of grading.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	6/3/2024	1/28/2028
tblConstructionPhase	PhaseEndDate	6/10/2024	2/4/2028
tblConstructionPhase	PhaseEndDate	6/20/2024	2/16/2028
tblConstructionPhase	PhaseEndDate	5/8/2025	1/3/2029
tblConstructionPhase	PhaseEndDate	6/3/2025	1/29/2029
tblConstructionPhase	PhaseEndDate	6/27/2025	2/22/2029
tblConstructionPhase	PhaseStartDate	5/7/2024	1/3/2028
tblConstructionPhase	PhaseStartDate	6/4/2024	1/29/2028
tblConstructionPhase	PhaseStartDate	6/11/2024	2/5/2028
tblConstructionPhase	PhaseStartDate	6/21/2024	2/17/2028
tblConstructionPhase	PhaseStartDate	5/9/2025	1/4/2029
tblConstructionPhase	PhaseStartDate	6/4/2025	1/30/2029
tblGrading	MaterialExported	0.00	38,000.00
tblLandUse	LandUseSquareFeet	4,470.00	4,466.00
tblLandUse	LandUseSquareFeet	331,056.00	157,535.00
tblLandUse	LotAcreage	7.60	2.40
tblTripsAndVMT	HaulingTripNumber	2,868.00	332.00
tblTripsAndVMT	HaulingTripNumber	4,750.00	5,575.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.2439	2.4831	2.6159	7.7300e-003	0.5911	0.0755	0.6666	0.1417	0.0708	0.2125	0.0000	709.4686	709.4686	0.0988	0.0000	711.9383
2029	0.7742	0.1015	0.1613	2.9000e-004	5.9800e-003	4.4600e-003	0.0104	1.6000e-003	4.1700e-003	5.7700e-003	0.0000	25.5639	25.5639	5.7100e-003	0.0000	25.7066
Maximum	**0.7742**	**2.4831**	**2.6159**	**7.7300e-003**	**0.5911**	**0.0755**	**0.6666**	**0.1417**	**0.0708**	**0.2125**	**0.0000**	**709.4686**	**709.4686**	**0.0988**	**0.0000**	**711.9383**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.2439	2.4831	2.6159	7.7300e-003	0.5911	0.0755	0.6666	0.1417	0.0708	0.2125	0.0000	709.4682	709.4682	0.0988	0.0000	711.9379
2029	0.7742	0.1015	0.1613	2.9000e-004	5.9800e-003	4.4600e-003	0.0104	1.6000e-003	4.1700e-003	5.7700e-003	0.0000	25.5639	25.5639	5.7100e-003	0.0000	25.7066
Maximum	**0.7742**	**2.4831**	**2.6159**	**7.7300e-003**	**0.5911**	**0.0755**	**0.6666**	**0.1417**	**0.0708**	**0.2125**	**0.0000**	**709.4682**	**709.4682**	**0.0988**	**0.0000**	**711.9379**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
15	**11-7-2027**	**2-6-2028**	0.3779	0.3779
16	**2-7-2028**	**5-6-2028**	0.9183	0.9183
17	**5-7-2028**	**8-6-2028**	0.5559	0.5559
18	**8-7-2028**	**11-6-2028**	0.5564	0.5564
19	**11-7-2028**	**2-6-2029**	0.6755	0.6755
20	**2-7-2029**	**5-6-2029**	0.4917	0.4917
		Highest	0.9183	0.9183

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6671	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0106	0.0106	3.0000e-005	0.0000	0.0113
Energy	0.0259	0.2357	0.1980	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	1,283.5778	1,283.5778	0.0292	9.7200e-003	1,287.2045
Mobile	0.3961	2.1238	4.4278	0.0196	1.9286	0.0128	1.9414	0.5166	0.0119	0.5284	0.0000	1,819.1746	1,819.1746	0.0782	0.0000	1,821.1301
Waste						0.0000	0.0000		0.0000	0.0000	36.1365	0.0000	36.1365	2.1356	0.0000	89.5265
Water						0.0000	0.0000		0.0000	0.0000	2.2653	56.2961	58.5614	0.2340	5.7700e-003	66.1306
Total	**1.0892**	**2.3596**	**4.6312**	**0.0210**	**1.9286**	**0.0307**	**1.9594**	**0.5166**	**0.0298**	**0.5464**	**38.4018**	**3,159.0591**	**3,197.4609**	**2.4770**	**0.0155**	**3,264.0030**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6671	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0106	0.0106	3.0000e-005	0.0000	0.0113
Energy	0.0259	0.2357	0.1980	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	1,283.5778	1,283.5778	0.0292	9.7200e-003	1,287.2045
Mobile	0.3961	2.1238	4.4278	0.0196	1.9286	0.0128	1.9414	0.5166	0.0119	0.5284	0.0000	1,819.1746	1,819.1746	0.0782	0.0000	1,821.1301
Waste						0.0000	0.0000		0.0000	0.0000	36.1365	0.0000	36.1365	2.1356	0.0000	89.5265
Water						0.0000	0.0000		0.0000	0.0000	2.2653	56.2961	58.5614	0.2340	5.7700e-003	66.1306
Total	**1.0892**	**2.3596**	**4.6312**	**0.0210**	**1.9286**	**0.0307**	**1.9594**	**0.5166**	**0.0298**	**0.5464**	**38.4018**	**3,159.0591**	**3,197.4609**	**2.4770**	**0.0155**	**3,264.0030**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Burbank De Soto - Phase 4 - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/28/2028	5	20	
2	Site Preparation	Site Preparation	1/29/2028	2/4/2028	5	5	
3	Grading	Grading	2/5/2028	2/16/2028	5	8	
4	Building Construction	Building Construction	2/17/2028	1/3/2029	5	230	
5	Paving	Paving	1/4/2029	1/29/2029	5	18	
6	Architectural Coating	Architectural Coating	1/30/2029	2/22/2029	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.76

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 243,002; Non-Residential Outdoor: 81,001; Striped Parking Area: 4,680 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto - Phase 4 - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	332.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	5,575.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	101.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3103	0.0000	0.3103	0.0470	0.0000	0.0470	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350
Total	**0.0209**	**0.1920**	**0.1942**	**3.9000e-004**	**0.3103**	**8.5300e-003**	**0.3189**	**0.0470**	**7.9200e-003**	**0.0549**	**0.0000**	**33.9977**	**33.9977**	**9.4900e-003**	**0.0000**	**34.2350**

3.2 Demolition - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0246	9.0600e-003	1.2000e-004	2.8500e-003	4.0000e-005	2.9000e-003	7.8000e-004	4.0000e-005	8.3000e-004	0.0000	11.5240	11.5240	8.0000e-004	0.0000	11.5441
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.5000e-004	3.1900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.1208	1.1208	2.0000e-005	0.0000	1.1213
Total	**1.2100e-003**	**0.0248**	**0.0123**	**1.3000e-004**	**4.5000e-003**	**5.0000e-005**	**4.5600e-003**	**1.2200e-003**	**5.0000e-005**	**1.2800e-003**	**0.0000**	**12.6448**	**12.6448**	**8.2000e-004**	**0.0000**	**12.6654**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3103	0.0000	0.3103	0.0470	0.0000	0.0470	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349
Total	**0.0209**	**0.1920**	**0.1942**	**3.9000e-004**	**0.3103**	**8.5300e-003**	**0.3189**	**0.0470**	**7.9200e-003**	**0.0549**	**0.0000**	**33.9976**	**33.9976**	**9.4900e-003**	**0.0000**	**34.2349**

3.2 Demolition - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0246	9.0600e-003	1.2000e-004	2.8500e-003	4.0000e-005	2.9000e-003	7.8000e-004	4.0000e-005	8.3000e-004	0.0000	11.5240	11.5240	8.0000e-004	0.0000	11.5441
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.5000e-004	3.1900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.1208	1.1208	2.0000e-005	0.0000	1.1213
Total	**1.2100e-003**	**0.0248**	**0.0123**	**1.3000e-004**	**4.5000e-003**	**5.0000e-005**	**4.5600e-003**	**1.2200e-003**	**5.0000e-005**	**1.2800e-003**	**0.0000**	**12.6448**	**12.6448**	**8.2000e-004**	**0.0000**	**12.6654**

3.3 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1800e-003	0.0631	0.0448	1.0000e-004		2.7200e-003	2.7200e-003		2.5000e-003	2.5000e-003	0.0000	8.3668	8.3668	2.7100e-003	0.0000	8.4344
Total	**6.1800e-003**	**0.0631**	**0.0448**	**1.0000e-004**	**0.0452**	**2.7200e-003**	**0.0479**	**0.0248**	**2.5000e-003**	**0.0273**	**0.0000**	**8.3668**	**8.3668**	**2.7100e-003**	**0.0000**	**8.4344**

3.3 Site Preparation - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	9.6000e-004	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3362	0.3362	1.0000e-005	0.0000	0.3364
Total	**1.3000e-004**	**7.0000e-005**	**9.6000e-004**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3362**	**0.3362**	**1.0000e-005**	**0.0000**	**0.3364**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1800e-003	0.0631	0.0448	1.0000e-004		2.7200e-003	2.7200e-003		2.5000e-003	2.5000e-003	0.0000	8.3667	8.3667	2.7100e-003	0.0000	8.4344
Total	**6.1800e-003**	**0.0631**	**0.0448**	**1.0000e-004**	**0.0452**	**2.7200e-003**	**0.0479**	**0.0248**	**2.5000e-003**	**0.0273**	**0.0000**	**8.3667**	**8.3667**	**2.7100e-003**	**0.0000**	**8.4344**

3.3 Site Preparation - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	9.6000e-004	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3362	0.3362	1.0000e-005	0.0000	0.3364
Total	**1.3000e-004**	**7.0000e-005**	**9.6000e-004**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3362**	**0.3362**	**1.0000e-005**	**0.0000**	**0.3364**

3.4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0284	0.0000	0.0284	0.0138	0.0000	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0613	0.0582	1.2000e-004		2.4900e-003	2.4900e-003		2.2900e-003	2.2900e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122
Total	**6.0900e-003**	**0.0613**	**0.0582**	**1.2000e-004**	**0.0284**	**2.4900e-003**	**0.0309**	**0.0138**	**2.2900e-003**	**0.0161**	**0.0000**	**10.4279**	**10.4279**	**3.3700e-003**	**0.0000**	**10.5122**

3.4 Grading - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0131	0.4126	0.1522	1.9500e-003	0.0479	7.5000e-004	0.0487	0.0132	7.2000e-004	0.0139	0.0000	193.5131	193.5131	0.0135	0.0000	193.8503
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.0000e-004	1.2700e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4483	0.4483	1.0000e-005	0.0000	0.4485
Total	**0.0133**	**0.4127**	**0.1535**	**1.9500e-003**	**0.0486**	**7.5000e-004**	**0.0493**	**0.0133**	**7.2000e-004**	**0.0141**	**0.0000**	**193.9614**	**193.9614**	**0.0135**	**0.0000**	**194.2988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0284	0.0000	0.0284	0.0138	0.0000	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0613	0.0582	1.2000e-004		2.4900e-003	2.4900e-003		2.2900e-003	2.2900e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122
Total	**6.0900e-003**	**0.0613**	**0.0582**	**1.2000e-004**	**0.0284**	**2.4900e-003**	**0.0309**	**0.0138**	**2.2900e-003**	**0.0161**	**0.0000**	**10.4279**	**10.4279**	**3.3700e-003**	**0.0000**	**10.5122**

3.4 Grading - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0131	0.4126	0.1522	1.9500e-003	0.0479	7.5000e-004	0.0487	0.0132	7.2000e-004	0.0139	0.0000	193.5131	193.5131	0.0135	0.0000	193.8503
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.0000e-004	1.2700e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4483	0.4483	1.0000e-005	0.0000	0.4485
Total	**0.0133**	**0.4127**	**0.1535**	**1.9500e-003**	**0.0486**	**7.5000e-004**	**0.0493**	**0.0133**	**7.2000e-004**	**0.0141**	**0.0000**	**193.9614**	**193.9614**	**0.0135**	**0.0000**	**194.2988**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1552	1.4153	1.8256	3.0600e-003		0.0599	0.0599		0.0563	0.0563	0.0000	263.2286	263.2286	0.0619	0.0000	264.7755
Total	**0.1552**	**1.4153**	**1.8256**	**3.0600e-003**		**0.0599**	**0.0599**		**0.0563**	**0.0563**	**0.0000**	**263.2286**	**263.2286**	**0.0619**	**0.0000**	**264.7755**

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9500e-003	0.2950	0.0831	1.0300e-003	0.0279	3.3000e-004	0.0282	8.0500e-003	3.1000e-004	8.3600e-003	0.0000	100.8505	100.8505	5.4600e-003	0.0000	100.9871
Worker	0.0329	0.0189	0.2434	9.5000e-004	0.1258	7.4000e-004	0.1265	0.0334	6.8000e-004	0.0341	0.0000	85.6547	85.6547	1.5500e-003	0.0000	85.6935
Total	**0.0409**	**0.3139**	**0.3265**	**1.9800e-003**	**0.1537**	**1.0700e-003**	**0.1547**	**0.0415**	**9.9000e-004**	**0.0424**	**0.0000**	**186.5052**	**186.5052**	**7.0100e-003**	**0.0000**	**186.6806**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1552	1.4153	1.8256	3.0600e-003		0.0599	0.0599		0.0563	0.0563	0.0000	263.2283	263.2283	0.0619	0.0000	264.7752
Total	**0.1552**	**1.4153**	**1.8256**	**3.0600e-003**		**0.0599**	**0.0599**		**0.0563**	**0.0563**	**0.0000**	**263.2283**	**263.2283**	**0.0619**	**0.0000**	**264.7752**

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9500e-003	0.2950	0.0831	1.0300e-003	0.0279	3.3000e-004	0.0282	8.0500e-003	3.1000e-004	8.3600e-003	0.0000	100.8505	100.8505	5.4600e-003	0.0000	100.9871
Worker	0.0329	0.0189	0.2434	9.5000e-004	0.1258	7.4000e-004	0.1265	0.0334	6.8000e-004	0.0341	0.0000	85.6547	85.6547	1.5500e-003	0.0000	85.6935
Total	**0.0409**	**0.3139**	**0.3265**	**1.9800e-003**	**0.1537**	**1.0700e-003**	**0.1547**	**0.0415**	**9.9000e-004**	**0.0424**	**0.0000**	**186.5052**	**186.5052**	**7.0100e-003**	**0.0000**	**186.6806**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0500e-003	0.0187	0.0241	4.0000e-005		7.9000e-004	7.9000e-004		7.4000e-004	7.4000e-004	0.0000	3.4788	3.4788	8.2000e-004	0.0000	3.4992
Total	**2.0500e-003**	**0.0187**	**0.0241**	**4.0000e-005**		**7.9000e-004**	**7.9000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**3.4788**	**3.4788**	**8.2000e-004**	**0.0000**	**3.4992**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.8700e-003	1.0800e-003	1.0000e-005	3.7000e-004	0.0000	3.7000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3279	1.3279	7.0000e-005	0.0000	1.3296
Worker	4.1000e-004	2.3000e-004	3.0200e-003	1.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.1015	1.1015	2.0000e-005	0.0000	1.1020
Total	**5.1000e-004**	**4.1000e-003**	**4.1000e-003**	**2.0000e-005**	**2.0300e-003**	**1.0000e-005**	**2.0400e-003**	**5.5000e-004**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**2.4293**	**2.4293**	**9.0000e-005**	**0.0000**	**2.4316**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0500e-003	0.0187	0.0241	4.0000e-005		7.9000e-004	7.9000e-004		7.4000e-004	7.4000e-004	0.0000	3.4788	3.4788	8.2000e-004	0.0000	3.4992
Total	**2.0500e-003**	**0.0187**	**0.0241**	**4.0000e-005**		**7.9000e-004**	**7.9000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**3.4788**	**3.4788**	**8.2000e-004**	**0.0000**	**3.4992**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.8700e-003	1.0800e-003	1.0000e-005	3.7000e-004	0.0000	3.7000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3279	1.3279	7.0000e-005	0.0000	1.3296
Worker	4.1000e-004	2.3000e-004	3.0200e-003	1.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.1015	1.1015	2.0000e-005	0.0000	1.1020
Total	**5.1000e-004**	**4.1000e-003**	**4.1000e-003**	**2.0000e-005**	**2.0300e-003**	**1.0000e-005**	**2.0400e-003**	**5.5000e-004**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**2.4293**	**2.4293**	**9.0000e-005**	**0.0000**	**2.4316**

3.6 Paving - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3800e-003	0.0678	0.1096	1.7000e-004		3.1700e-003	3.1700e-003		2.9300e-003	2.9300e-003	0.0000	14.7404	14.7404	4.6300e-003	0.0000	14.8562
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.4100e-003**	**0.0678**	**0.1096**	**1.7000e-004**		**3.1700e-003**	**3.1700e-003**		**2.9300e-003**	**2.9300e-003**	**0.0000**	**14.7404**	**14.7404**	**4.6300e-003**	**0.0000**	**14.8562**

3.6 Paving - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	2.7000e-004	3.5900e-003	1.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.3087	1.3087	2.0000e-005	0.0000	1.3093
Total	**4.9000e-004**	**2.7000e-004**	**3.5900e-003**	**1.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.3087**	**1.3087**	**2.0000e-005**	**0.0000**	**1.3093**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3800e-003	0.0678	0.1096	1.7000e-004		3.1700e-003	3.1700e-003		2.9300e-003	2.9300e-003	0.0000	14.7404	14.7404	4.6300e-003	0.0000	14.8562
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.4100e-003**	**0.0678**	**0.1096**	**1.7000e-004**		**3.1700e-003**	**3.1700e-003**		**2.9300e-003**	**2.9300e-003**	**0.0000**	**14.7404**	**14.7404**	**4.6300e-003**	**0.0000**	**14.8562**

3.6 Paving - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	2.7000e-004	3.5900e-003	1.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.3087	1.3087	2.0000e-005	0.0000	1.3093
Total	**4.9000e-004**	**2.7000e-004**	**3.5900e-003**	**1.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.3087**	**1.3087**	**2.0000e-005**	**0.0000**	**1.3093**

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011
Total	**0.7633**	**0.0103**	**0.0163**	**3.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3011**

3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	2.7000e-004	3.5900e-003	1.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.3087	1.3087	2.0000e-005	0.0000	1.3093
Total	**4.9000e-004**	**2.7000e-004**	**3.5900e-003**	**1.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.3087**	**1.3087**	**2.0000e-005**	**0.0000**	**1.3093**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011
Total	**0.7633**	**0.0103**	**0.0163**	**3.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3011**

3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	2.7000e-004	3.5900e-003	1.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.3087	1.3087	2.0000e-005	0.0000	1.3093
Total	**4.9000e-004**	**2.7000e-004**	**3.5900e-003**	**1.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.3087**	**1.3087**	**2.0000e-005**	**0.0000**	**1.3093**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3961	2.1238	4.4278	0.0196	1.9286	0.0128	1.9414	0.5166	0.0119	0.5284	0.0000	1,819.1746	1,819.1746	0.0782	0.0000	1,821.1301
Unmitigated	0.3961	2.1238	4.4278	0.0196	1.9286	0.0128	1.9414	0.5166	0.0119	0.5284	0.0000	1,819.1746	1,819.1746	0.0782	0.0000	1,821.1301

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	568.36	707.91	589.32	805,830	805,830
Hotel	1,862.76	1,867.32	1356.60	4,273,878	4,273,878
Parking Lot	0.00	0.00	0.00		
Total	2,431.12	2,575.23	1,945.92	5,079,708	5,079,708

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
High Turnover (Sit Down Restaurant)	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
Hotel	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
Parking Lot	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,026.9906	1,026.9906	0.0243	5.0200e-003	1,029.0924
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,026.9906	1,026.9906	0.0243	5.0200e-003	1,029.0924
NaturalGas Mitigated	0.0259	0.2357	0.1980	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	256.5873	256.5873	4.9200e-003	4.7000e-003	258.1120
NaturalGas Unmitigated	0.0259	0.2357	0.1980	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	256.5873	256.5873	4.9200e-003	4.7000e-003	258.1120

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.03057e+006	5.5600e-003	0.0505	0.0424	3.0000e-004		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	54.9954	54.9954	1.0500e-003	1.0100e-003	55.3222
Hotel	3.77769e+006	0.0204	0.1852	0.1556	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.5919	201.5919	3.8600e-003	3.7000e-003	202.7899
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0259**	**0.2357**	**0.1980**	**1.4100e-003**		**0.0179**	**0.0179**		**0.0179**	**0.0179**	**0.0000**	**256.5873**	**256.5873**	**4.9100e-003**	**4.7100e-003**	**258.1120**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.03057e+006	5.5600e-003	0.0505	0.0424	3.0000e-004		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	54.9954	54.9954	1.0500e-003	1.0100e-003	55.3222
Hotel	3.77769e+006	0.0204	0.1852	0.1556	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.5919	201.5919	3.8600e-003	3.7000e-003	202.7899
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0259**	**0.2357**	**0.1980**	**1.4100e-003**		**0.0179**	**0.0179**		**0.0179**	**0.0179**	**0.0000**	**256.5873**	**256.5873**	**4.9100e-003**	**4.7100e-003**	**258.1120**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	452392	251.9649	5.9500e-003	1.2300e-003	252.4806
High Turnover (Sit Down Restaurant)	197129	109.7934	2.5900e-003	5.4000e-004	110.0181
Hotel	1.19412e+006	665.0763	0.0157	3.2500e-003	666.4374
Parking Lot	280	0.1560	0.0000	0.0000	0.1563
Total		**1,026.9906**	**0.0243**	**5.0200e-003**	**1,029.0924**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	452392	251.9649	5.9500e-003	1.2300e-003	252.4806
High Turnover (Sit Down Restaurant)	197129	109.7934	2.5900e-003	5.4000e-004	110.0181
Hotel	1.19412e+006	665.0763	0.0157	3.2500e-003	666.4374
Parking Lot	280	0.1560	0.0000	0.0000	0.1563
Total		**1,026.9906**	**0.0243**	**5.0200e-003**	**1,029.0924**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6671	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0106	0.0106	3.0000e-005	0.0000	0.0113
Unmitigated	0.6671	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0106	0.0106	3.0000e-005	0.0000	0.0113

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5904					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0106	0.0106	3.0000e-005	0.0000	0.0113
Total	**0.6671**	**5.0000e-005**	**5.4400e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0106**	**0.0106**	**3.0000e-005**	**0.0000**	**0.0113**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5904					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.4400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0106	0.0106	3.0000e-005	0.0000	0.0113
Total	**0.6671**	**5.0000e-005**	**5.4400e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0106**	**0.0106**	**3.0000e-005**	**0.0000**	**0.0113**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	58.5614	0.2340	5.7700e-003	66.1306
Unmitigated	58.5614	0.2340	5.7700e-003	66.1306

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.3568 / 0.086604	10.8061	0.0445	1.0900e-003	12.2437
Hotel	5.78362 / 0.642625	47.7553	0.1895	4.6700e-003	53.8869
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**58.5614**	**0.2340**	**5.7600e-003**	**66.1306**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.3568 / 0.086604	10.8061	0.0445	1.0900e-003	12.2437
Hotel	5.78362 / 0.642625	47.7553	0.1895	4.6700e-003	53.8869
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**58.5614**	**0.2340**	**5.7600e-003**	**66.1306**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	36.1365	2.1356	0.0000	89.5265
Unmitigated	36.1365	2.1356	0.0000	89.5265

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	53.19	10.7971	0.6381	0.0000	26.7493
Hotel	124.83	25.3394	1.4975	0.0000	62.7772
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**36.1365**	**2.1356**	**0.0000**	**89.5265**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	53.19	10.7971	0.6381	0.0000	26.7493
Hotel	124.83	25.3394	1.4975	0.0000	62.7772
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**36.1365**	**2.1356**	**0.0000**	**89.5265**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto - Phase 4

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	193.00	Space	1.74	77,200.00	0
Parking Lot	2.00	Space	0.02	800.00	0
High Turnover (Sit Down Restaurant)	4.47	1000sqft	0.10	4,466.00	0
Hotel	228.00	Room	2.40	157,535.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2029
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about land use types and sizes.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE commetn about off-road equipment unit amounts.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about material export and acres of grading.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	6/3/2024	1/28/2028
tblConstructionPhase	PhaseEndDate	6/10/2024	2/4/2028
tblConstructionPhase	PhaseEndDate	6/20/2024	2/16/2028
tblConstructionPhase	PhaseEndDate	5/8/2025	1/3/2029
tblConstructionPhase	PhaseEndDate	6/3/2025	1/29/2029
tblConstructionPhase	PhaseEndDate	6/27/2025	2/22/2029
tblConstructionPhase	PhaseStartDate	5/7/2024	1/3/2028
tblConstructionPhase	PhaseStartDate	6/4/2024	1/29/2028
tblConstructionPhase	PhaseStartDate	6/11/2024	2/5/2028
tblConstructionPhase	PhaseStartDate	6/21/2024	2/17/2028
tblConstructionPhase	PhaseStartDate	5/9/2025	1/4/2029
tblConstructionPhase	PhaseStartDate	6/4/2025	1/30/2029
tblGrading	MaterialExported	0.00	38,000.00
tblLandUse	LandUseSquareFeet	4,470.00	4,466.00
tblLandUse	LandUseSquareFeet	331,056.00	157,535.00
tblLandUse	LotAcreage	7.60	2.40
tblTripsAndVMT	HaulingTripNumber	2,868.00	332.00
tblTripsAndVMT	HaulingTripNumber	4,750.00	5,575.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	4.8049	116.1163	52.2320	0.5214	31.4894	1.0880	32.3476	9.9840	1.0009	10.9850	0.0000	56,707.9505	56,707.9505	4.6063	0.0000	56,823.1089
2029	84.8606	15.1608	18.9593	0.0447	1.3785	0.5364	1.9149	0.3712	0.5045	0.8757	0.0000	4,393.0924	4,393.0924	0.6667	0.0000	4,409.7597
Maximum	**84.8606**	**116.1163**	**52.2320**	**0.5214**	**31.4894**	**1.0880**	**32.3476**	**9.9840**	**1.0009**	**10.9850**	**0.0000**	**56,707.9505**	**56,707.9505**	**4.6063**	**0.0000**	**56,823.1089**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	4.8049	116.1163	52.2320	0.5214	31.4894	1.0880	32.3476	9.9840	1.0009	10.9850	0.0000	56,707.9505	56,707.9505	4.6063	0.0000	56,823.1089
2029	84.8606	15.1608	18.9593	0.0447	1.3785	0.5364	1.9149	0.3712	0.5045	0.8757	0.0000	4,393.0924	4,393.0924	0.6667	0.0000	4,409.7597
Maximum	**84.8606**	**116.1163**	**52.2320**	**0.5214**	**31.4894**	**1.0880**	**32.3476**	**9.9840**	**1.0009**	**10.9850**	**0.0000**	**56,707.9505**	**56,707.9505**	**4.6063**	**0.0000**	**56,823.1089**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6566	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Energy	0.1421	1.2915	1.0849	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,549.8029	1,549.8029	0.0297	0.0284	1,559.0126
Mobile	2.5397	12.2998	26.9495	0.1193	11.5168	0.0752	11.5920	3.0800	0.0698	3.1497		12,219.4700	12,219.4700	0.5060		12,232.1199
Total	**6.3384**	**13.5917**	**28.0779**	**0.1270**	**11.5168**	**0.1735**	**11.6903**	**3.0800**	**0.1681**	**3.2480**		**13,769.3665**	**13,769.3665**	**0.5359**	**0.0284**	**13,791.2322**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6566	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Energy	0.1421	1.2915	1.0849	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,549.8029	1,549.8029	0.0297	0.0284	1,559.0126
Mobile	2.5397	12.2998	26.9495	0.1193	11.5168	0.0752	11.5920	3.0800	0.0698	3.1497		12,219.4700	12,219.4700	0.5060		12,232.1199
Total	**6.3384**	**13.5917**	**28.0779**	**0.1270**	**11.5168**	**0.1735**	**11.6903**	**3.0800**	**0.1681**	**3.2480**		**13,769.3665**	**13,769.3665**	**0.5359**	**0.0284**	**13,791.2322**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/28/2028	5	20	
2	Site Preparation	Site Preparation	1/29/2028	2/4/2028	5	5	
3	Grading	Grading	2/5/2028	2/16/2028	5	8	
4	Building Construction	Building Construction	2/17/2028	1/3/2029	5	230	
5	Paving	Paving	1/4/2029	1/29/2029	5	18	
6	Architectural Coating	Architectural Coating	1/30/2029	2/22/2029	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.76

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 243,002; Non-Residential Outdoor: 81,001; Striped Parking Area: 4,680 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto - Phase 4 - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	332.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	5,575.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	101.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					31.0318	0.0000	31.0318	4.6985	0.0000	4.6985			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	**2.0926**	**19.1966**	**19.4184**	**0.0388**	**31.0318**	**0.8528**	**31.8845**	**4.6985**	**0.7920**	**5.4905**		**3,747.5996**	**3,747.5996**	**1.0464**		**3,773.7606**

3.2 Demolition - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0772	2.4006	0.8896	0.0117	0.2900	4.4500e-003	0.2944	0.0795	4.2500e-003	0.0837		1,279.2755	1,279.2755	0.0875		1,281.4638
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787
Total	**0.1202**	**2.4225**	**1.2350**	**0.0130**	**0.4576**	**5.4100e-003**	**0.4630**	**0.1239**	**5.1400e-003**	**0.1291**		**1,408.9950**	**1,408.9950**	**0.0899**		**1,411.2425**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					31.0318	0.0000	31.0318	4.6985	0.0000	4.6985			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	**2.0926**	**19.1966**	**19.4184**	**0.0388**	**31.0318**	**0.8528**	**31.8845**	**4.6985**	**0.7920**	**5.4905**	**0.0000**	**3,747.5996**	**3,747.5996**	**1.0464**		**3,773.7606**

3.2 Demolition - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0772	2.4006	0.8896	0.0117	0.2900	4.4500e-003	0.2944	0.0795	4.2500e-003	0.0837		1,279.2755	1,279.2755	0.0875		1,281.4638
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787
Total	**0.1202**	**2.4225**	**1.2350**	**0.0130**	**0.4576**	**5.4100e-003**	**0.4630**	**0.1239**	**5.1400e-003**	**0.1291**		**1,408.9950**	**1,408.9950**	**0.0899**		**1,411.2425**

3.3 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**		**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

3.3 Site Preparation - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0516	0.0263	0.4144	1.5600e-003	0.2012	1.1500e-003	0.2024	0.0534	1.0600e-003	0.0544		155.6634	155.6634	2.8400e-003		155.7345
Total	**0.0516**	**0.0263**	**0.4144**	**1.5600e-003**	**0.2012**	**1.1500e-003**	**0.2024**	**0.0534**	**1.0600e-003**	**0.0544**		**155.6634**	**155.6634**	**2.8400e-003**		**155.7345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**	**0.0000**	**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

3.3 Site Preparation - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0516	0.0263	0.4144	1.5600e-003	0.2012	1.1500e-003	0.2024	0.0534	1.0600e-003	0.0544		155.6634	155.6634	2.8400e-003		155.7345
Total	**0.0516**	**0.0263**	**0.4144**	**1.5600e-003**	**0.2012**	**1.1500e-003**	**0.2024**	**0.0534**	**1.0600e-003**	**0.0544**		**155.6634**	**155.6634**	**2.8400e-003**		**155.7345**

3.4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0895	0.0000	7.0895	3.4488	0.0000	3.4488			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**7.0895**	**0.6236**	**7.7131**	**3.4488**	**0.5737**	**4.0225**		**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

3.4 Grading - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.2393	100.7796	37.3465	0.4905	12.1725	0.1867	12.3591	3.3355	0.1786	3.5140		53,704.5258	53,704.5258	3.6746		53,796.3896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787
Total	**3.2823**	**100.8015**	**37.6919**	**0.4918**	**12.3401**	**0.1876**	**12.5277**	**3.3799**	**0.1795**	**3.5594**		**53,834.2453**	**53,834.2453**	**3.6769**		**53,926.1683**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0895	0.0000	7.0895	3.4488	0.0000	3.4488			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**7.0895**	**0.6236**	**7.7131**	**3.4488**	**0.5737**	**4.0225**	**0.0000**	**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

3.4 Grading - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.2393	100.7796	37.3465	0.4905	12.1725	0.1867	12.3591	3.3355	0.1786	3.5140		53,704.5258	53,704.5258	3.6746		53,796.3896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0430	0.0219	0.3453	1.3000e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		129.7195	129.7195	2.3700e-003		129.7787
Total	**3.2823**	**100.8015**	**37.6919**	**0.4918**	**12.3401**	**0.1876**	**12.5277**	**3.3799**	**0.1795**	**3.5594**		**53,834.2453**	**53,834.2453**	**3.6769**		**53,926.1683**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0686	2.5752	0.6980	9.2100e-003	0.2496	2.8300e-003	0.2524	0.0718	2.7100e-003	0.0746		990.3669	990.3669	0.0518		991.6611
Worker	0.2895	0.1475	2.3252	8.7500e-003	1.1289	6.4800e-003	1.1354	0.2994	5.9600e-003	0.3054		873.4448	873.4448	0.0159		873.8433
Total	**0.3581**	**2.7227**	**3.0232**	**0.0180**	**1.3785**	**9.3100e-003**	**1.3878**	**0.3712**	**8.6700e-003**	**0.3799**		**1,863.8117**	**1,863.8117**	**0.0677**		**1,865.5044**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0686	2.5752	0.6980	9.2100e-003	0.2496	2.8300e-003	0.2524	0.0718	2.7100e-003	0.0746		990.3669	990.3669	0.0518		991.6611
Worker	0.2895	0.1475	2.3252	8.7500e-003	1.1289	6.4800e-003	1.1354	0.2994	5.9600e-003	0.3054		873.4448	873.4448	0.0159		873.8433
Total	**0.3581**	**2.7227**	**3.0232**	**0.0180**	**1.3785**	**9.3100e-003**	**1.3878**	**0.3712**	**8.6700e-003**	**0.3799**		**1,863.8117**	**1,863.8117**	**0.0677**		**1,865.5044**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0675	2.5552	0.6893	9.1700e-003	0.2496	2.7900e-003	0.2524	0.0718	2.6600e-003	0.0745		986.6331	986.6331	0.0511		987.9107
Worker	0.2723	0.1359	2.1854	8.5200e-003	1.1289	6.0200e-003	1.1350	0.2994	5.5400e-003	0.3049		849.9850	849.9850	0.0146		850.3509
Total	**0.3398**	**2.6912**	**2.8746**	**0.0177**	**1.3785**	**8.8100e-003**	**1.3873**	**0.3712**	**8.2000e-003**	**0.3795**		**1,836.6181**	**1,836.6181**	**0.0658**		**1,838.2616**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0675	2.5552	0.6893	9.1700e-003	0.2496	2.7900e-003	0.2524	0.0718	2.6600e-003	0.0745		986.6331	986.6331	0.0511		987.9107
Worker	0.2723	0.1359	2.1854	8.5200e-003	1.1289	6.0200e-003	1.1350	0.2994	5.5400e-003	0.3049		849.9850	849.9850	0.0146		850.3509
Total	**0.3398**	**2.6912**	**2.8746**	**0.0177**	**1.3785**	**8.8100e-003**	**1.3873**	**0.3712**	**8.2000e-003**	**0.3795**		**1,836.6181**	**1,836.6181**	**0.0658**		**1,838.2616**

3.6 Paving - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	2.9100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8226**	**7.5321**	**12.1778**	**0.0189**		**0.3524**	**0.3524**		**0.3259**	**0.3259**		**1,805.3926**	**1,805.3926**	**0.5673**		**1,819.5741**

3.6 Paving - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0539	0.0269	0.4327	1.6900e-003	0.2236	1.1900e-003	0.2247	0.0593	1.1000e-003	0.0604		168.3139	168.3139	2.9000e-003		168.3863
Total	**0.0539**	**0.0269**	**0.4327**	**1.6900e-003**	**0.2236**	**1.1900e-003**	**0.2247**	**0.0593**	**1.1000e-003**	**0.0604**		**168.3139**	**168.3139**	**2.9000e-003**		**168.3863**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	2.9100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8226**	**7.5321**	**12.1778**	**0.0189**		**0.3524**	**0.3524**		**0.3259**	**0.3259**	**0.0000**	**1,805.3926**	**1,805.3926**	**0.5673**		**1,819.5741**

3.6 Paving - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0539	0.0269	0.4327	1.6900e-003	0.2236	1.1900e-003	0.2247	0.0593	1.1000e-003	0.0604		168.3139	168.3139	2.9000e-003		168.3863
Total	**0.0539**	**0.0269**	**0.4327**	**1.6900e-003**	**0.2236**	**1.1900e-003**	**0.2247**	**0.0593**	**1.1000e-003**	**0.0604**		**168.3139**	**168.3139**	**2.9000e-003**		**168.3863**

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	84.6359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**84.8067**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0539	0.0269	0.4327	1.6900e-003	0.2236	1.1900e-003	0.2247	0.0593	1.1000e-003	0.0604		168.3139	168.3139	2.9000e-003		168.3863
Total	**0.0539**	**0.0269**	**0.4327**	**1.6900e-003**	**0.2236**	**1.1900e-003**	**0.2247**	**0.0593**	**1.1000e-003**	**0.0604**		**168.3139**	**168.3139**	**2.9000e-003**		**168.3863**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	84.6359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**84.8067**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0539	0.0269	0.4327	1.6900e-003	0.2236	1.1900e-003	0.2247	0.0593	1.1000e-003	0.0604		168.3139	168.3139	2.9000e-003		168.3863
Total	**0.0539**	**0.0269**	**0.4327**	**1.6900e-003**	**0.2236**	**1.1900e-003**	**0.2247**	**0.0593**	**1.1000e-003**	**0.0604**		**168.3139**	**168.3139**	**2.9000e-003**		**168.3863**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.5397	12.2998	26.9495	0.1193	11.5168	0.0752	11.5920	3.0800	0.0698	3.1497		12,219.4700	12,219.4700	0.5060		12,232.1199
Unmitigated	2.5397	12.2998	26.9495	0.1193	11.5168	0.0752	11.5920	3.0800	0.0698	3.1497		12,219.4700	12,219.4700	0.5060		12,232.1199

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	568.36	707.91	589.32	805,830	805,830
Hotel	1,862.76	1,867.32	1356.60	4,273,878	4,273,878
Parking Lot	0.00	0.00	0.00		
Total	2,431.12	2,575.23	1,945.92	5,079,708	5,079,708

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
High Turnover (Sit Down Restaurant)	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
Hotel	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
Parking Lot	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1421	1.2915	1.0849	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,549.8029	1,549.8029	0.0297	0.0284	1,559.0126
NaturalGas Unmitigated	0.1421	1.2915	1.0849	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,549.8029	1,549.8029	0.0297	0.0284	1,559.0126

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2823.49	0.0305	0.2768	0.2325	1.6600e-003		0.0210	0.0210		0.0210	0.0210		332.1754	332.1754	6.3700e-003	6.0900e-003	334.1494
Hotel	10349.8	0.1116	1.0147	0.8523	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.6275	1,217.6275	0.0233	0.0223	1,224.8633
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1421**	**1.2915**	**1.0849**	**7.7500e-003**		**0.0982**	**0.0982**		**0.0982**	**0.0982**		**1,549.8029**	**1,549.8029**	**0.0297**	**0.0284**	**1,559.0126**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.82349	0.0305	0.2768	0.2325	1.6600e-003		0.0210	0.0210		0.0210	0.0210		332.1754	332.1754	6.3700e-003	6.0900e-003	334.1494
Hotel	10.3498	0.1116	1.0147	0.8523	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.6275	1,217.6275	0.0233	0.0223	1,224.8633
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1421**	**1.2915**	**1.0849**	**7.7500e-003**		**0.0982**	**0.0982**		**0.0982**	**0.0982**		**1,549.8029**	**1,549.8029**	**0.0297**	**0.0284**	**1,559.0126**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.6566	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Unmitigated	3.6566	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4174					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2353					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Total	**3.6566**	**3.9000e-004**	**0.0435**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0936**	**0.0936**	**2.4000e-004**		**0.0996**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4174					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2353					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Total	**3.6566**	**3.9000e-004**	**0.0435**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0936**	**0.0936**	**2.4000e-004**		**0.0996**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Burbank De Soto - Phase 4

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	193.00	Space	1.74	77,200.00	0
Parking Lot	2.00	Space	0.02	800.00	0
High Turnover (Sit Down Restaurant)	4.47	1000sqft	0.10	4,466.00	0
Hotel	228.00	Room	2.40	157,535.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2029
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See SWAPE comment about land use types and sizes.

Construction Phase - See SWAPE comment about construction schedule changes.

Off-road Equipment - See SWAPE commetn about off-road equipment unit amounts.

Trips and VMT - Consistent with IS/MND's model.

Demolition - Consistent with IS/MND's model.

Grading - See SWAPE comment about material export and acres of grading.

Construction Off-road Equipment Mitigation - See SWAPE comment about Tier 4 and construction dust mitigation measures.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	6/3/2024	1/28/2028
tblConstructionPhase	PhaseEndDate	6/10/2024	2/4/2028
tblConstructionPhase	PhaseEndDate	6/20/2024	2/16/2028
tblConstructionPhase	PhaseEndDate	5/8/2025	1/3/2029
tblConstructionPhase	PhaseEndDate	6/3/2025	1/29/2029
tblConstructionPhase	PhaseEndDate	6/27/2025	2/22/2029
tblConstructionPhase	PhaseStartDate	5/7/2024	1/3/2028
tblConstructionPhase	PhaseStartDate	6/4/2024	1/29/2028
tblConstructionPhase	PhaseStartDate	6/11/2024	2/5/2028
tblConstructionPhase	PhaseStartDate	6/21/2024	2/17/2028
tblConstructionPhase	PhaseStartDate	5/9/2025	1/4/2029
tblConstructionPhase	PhaseStartDate	6/4/2025	1/30/2029
tblGrading	MaterialExported	0.00	38,000.00
tblLandUse	LandUseSquareFeet	4,470.00	4,466.00
tblLandUse	LandUseSquareFeet	331,056.00	157,535.00
tblLandUse	LotAcreage	7.60	2.40
tblTripsAndVMT	HaulingTripNumber	2,868.00	332.00
tblTripsAndVMT	HaulingTripNumber	4,750.00	5,575.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	4.8914	116.7215	53.7435	0.5132	31.4894	1.0880	32.3476	9.9840	1.0009	10.9850	0.0000	55,803.1925	55,803.1925	4.7029	0.0000	55,920.7642
2029	84.8674	15.1606	18.7942	0.0439	1.3785	0.5364	1.9149	0.3712	0.5045	0.8758	0.0000	4,314.2136	4,314.2136	0.6685	0.0000	4,330.9250
Maximum	**84.8674**	**116.7215**	**53.7435**	**0.5132**	**31.4894**	**1.0880**	**32.3476**	**9.9840**	**1.0009**	**10.9850**	**0.0000**	**55,803.1925**	**55,803.1925**	**4.7029**	**0.0000**	**55,920.7642**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	4.8914	116.7215	53.7435	0.5132	31.4894	1.0880	32.3476	9.9840	1.0009	10.9850	0.0000	55,803.1925	55,803.1925	4.7029	0.0000	55,920.7642
2029	84.8674	15.1606	18.7942	0.0439	1.3785	0.5364	1.9149	0.3712	0.5045	0.8758	0.0000	4,314.2136	4,314.2136	0.6685	0.0000	4,330.9250
Maximum	**84.8674**	**116.7215**	**53.7435**	**0.5132**	**31.4894**	**1.0880**	**32.3476**	**9.9840**	**1.0009**	**10.9850**	**0.0000**	**55,803.1925**	**55,803.1925**	**4.7029**	**0.0000**	**55,920.7642**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6566	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Energy	0.1421	1.2915	1.0849	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,549.8029	1,549.8029	0.0297	0.0284	1,559.0126
Mobile	2.4170	12.3699	25.7831	0.1131	11.5168	0.0755	11.5924	3.0800	0.0701	3.1501		11,599.5750	11,599.5750	0.5132		11,612.4057
Total	**6.2157**	**13.6618**	**26.9115**	**0.1209**	**11.5168**	**0.1738**	**11.6907**	**3.0800**	**0.1684**	**3.2484**		**13,149.4715**	**13,149.4715**	**0.5432**	**0.0284**	**13,171.5179**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6566	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Energy	0.1421	1.2915	1.0849	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,549.8029	1,549.8029	0.0297	0.0284	1,559.0126
Mobile	2.4170	12.3699	25.7831	0.1131	11.5168	0.0755	11.5924	3.0800	0.0701	3.1501		11,599.5750	11,599.5750	0.5132		11,612.4057
Total	**6.2157**	**13.6618**	**26.9115**	**0.1209**	**11.5168**	**0.1738**	**11.6907**	**3.0800**	**0.1684**	**3.2484**		**13,149.4715**	**13,149.4715**	**0.5432**	**0.0284**	**13,171.5179**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/28/2028	5	20	
2	Site Preparation	Site Preparation	1/29/2028	2/4/2028	5	5	
3	Grading	Grading	2/5/2028	2/16/2028	5	8	
4	Building Construction	Building Construction	2/17/2028	1/3/2029	5	230	
5	Paving	Paving	1/4/2029	1/29/2029	5	18	
6	Architectural Coating	Architectural Coating	1/30/2029	2/22/2029	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.76

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 243,002; Non-Residential Outdoor: 81,001; Striped Parking Area: 4,680 (Architectural Coating – sqft)

OffRoad Equipment

Burbank De Soto - Phase 4 - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	332.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	5,575.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	101.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					31.0318	0.0000	31.0318	4.6985	0.0000	4.6985			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	**2.0926**	**19.1966**	**19.4184**	**0.0388**	**31.0318**	**0.8528**	**31.8845**	**4.6985**	**0.7920**	**5.4905**		**3,747.5996**	**3,747.5996**	**1.0464**		**3,773.7606**

3.2 Demolition - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0791	2.4150	0.9265	0.0115	0.2900	4.5200e-003	0.2945	0.0795	4.3200e-003	0.0838		1,257.9163	1,257.9163	0.0898		1,260.1622
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845
Total	**0.1274**	**2.4390**	**1.2361**	**0.0127**	**0.4576**	**5.4800e-003**	**0.4631**	**0.1239**	**5.2100e-003**	**0.1291**		**1,379.5458**	**1,379.5458**	**0.0920**		**1,381.8467**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					31.0318	0.0000	31.0318	4.6985	0.0000	4.6985			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	**2.0926**	**19.1966**	**19.4184**	**0.0388**	**31.0318**	**0.8528**	**31.8845**	**4.6985**	**0.7920**	**5.4905**	**0.0000**	**3,747.5996**	**3,747.5996**	**1.0464**		**3,773.7606**

3.2 Demolition - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0791	2.4150	0.9265	0.0115	0.2900	4.5200e-003	0.2945	0.0795	4.3200e-003	0.0838		1,257.9163	1,257.9163	0.0898		1,260.1622
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845
Total	**0.1274**	**2.4390**	**1.2361**	**0.0127**	**0.4576**	**5.4800e-003**	**0.4631**	**0.1239**	**5.2100e-003**	**0.1291**		**1,379.5458**	**1,379.5458**	**0.0920**		**1,381.8467**

3.3 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**		**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

3.3 Site Preparation - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0580	0.0288	0.3715	1.4600e-003	0.2012	1.1500e-003	0.2024	0.0534	1.0600e-003	0.0544		145.9553	145.9553	2.6400e-003		146.0214
Total	**0.0580**	**0.0288**	**0.3715**	**1.4600e-003**	**0.2012**	**1.1500e-003**	**0.2024**	**0.0534**	**1.0600e-003**	**0.0544**		**145.9553**	**145.9553**	**2.6400e-003**		**146.0214**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**	**0.0000**	**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

3.3 Site Preparation - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0580	0.0288	0.3715	1.4600e-003	0.2012	1.1500e-003	0.2024	0.0534	1.0600e-003	0.0544		145.9553	145.9553	2.6400e-003		146.0214
Total	**0.0580**	**0.0288**	**0.3715**	**1.4600e-003**	**0.2012**	**1.1500e-003**	**0.2024**	**0.0534**	**1.0600e-003**	**0.0544**		**145.9553**	**145.9553**	**2.6400e-003**		**146.0214**

3.4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0895	0.0000	7.0895	3.4488	0.0000	3.4488			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**7.0895**	**0.6236**	**7.7131**	**3.4488**	**0.5737**	**4.0225**		**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

3.4 Grading - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3205	101.3827	38.8937	0.4823	12.1725	0.1898	12.3622	3.3355	0.1815	3.5170		52,807.8579	52,807.8579	3.7713		52,902.1392
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845
Total	**3.3688**	**101.4068**	**39.2033**	**0.4835**	**12.3401**	**0.1907**	**12.5308**	**3.3799**	**0.1824**	**3.5623**		**52,929.4874**	**52,929.4874**	**3.7735**		**53,023.8237**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0895	0.0000	7.0895	3.4488	0.0000	3.4488			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**7.0895**	**0.6236**	**7.7131**	**3.4488**	**0.5737**	**4.0225**	**0.0000**	**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

3.4 Grading - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3205	101.3827	38.8937	0.4823	12.1725	0.1898	12.3622	3.3355	0.1815	3.5170		52,807.8579	52,807.8579	3.7713		52,902.1392
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0483	0.0240	0.3096	1.2200e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		121.6294	121.6294	2.2000e-003		121.6845
Total	**3.3688**	**101.4068**	**39.2033**	**0.4835**	**12.3401**	**0.1907**	**12.5308**	**3.3799**	**0.1824**	**3.5623**		**52,929.4874**	**52,929.4874**	**3.7735**		**53,023.8237**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0720	2.5619	0.7623	8.9700e-003	0.2496	2.9200e-003	0.2525	0.0718	2.7900e-003	0.0746		964.3964	964.3964	0.0547		965.7626
Worker	0.3253	0.1617	2.0847	8.2100e-003	1.1289	6.4800e-003	1.1354	0.2994	5.9600e-003	0.3054		818.9714	818.9714	0.0148		819.3422
Total	**0.3973**	**2.7236**	**2.8470**	**0.0172**	**1.3785**	**9.4000e-003**	**1.3879**	**0.3712**	**8.7500e-003**	**0.3800**		**1,783.3678**	**1,783.3678**	**0.0695**		**1,785.1048**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0720	2.5619	0.7623	8.9700e-003	0.2496	2.9200e-003	0.2525	0.0718	2.7900e-003	0.0746		964.3964	964.3964	0.0547		965.7626
Worker	0.3253	0.1617	2.0847	8.2100e-003	1.1289	6.4800e-003	1.1354	0.2994	5.9600e-003	0.3054		818.9714	818.9714	0.0148		819.3422
Total	**0.3973**	**2.7236**	**2.8470**	**0.0172**	**1.3785**	**9.4000e-003**	**1.3879**	**0.3712**	**8.7500e-003**	**0.3800**		**1,783.3678**	**1,783.3678**	**0.0695**		**1,785.1048**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0709	2.5420	0.7528	8.9300e-003	0.2496	2.8600e-003	0.2524	0.0718	2.7400e-003	0.0746		960.8503	960.8503	0.0539		962.1979
Worker	0.3065	0.1489	1.9568	7.9800e-003	1.1289	6.0200e-003	1.1350	0.2994	5.5400e-003	0.3049		796.8889	796.8889	0.0136		797.2290
Total	**0.3774**	**2.6909**	**2.7096**	**0.0169**	**1.3785**	**8.8800e-003**	**1.3874**	**0.3712**	**8.2800e-003**	**0.3795**		**1,757.7392**	**1,757.7392**	**0.0675**		**1,759.4270**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0709	2.5420	0.7528	8.9300e-003	0.2496	2.8600e-003	0.2524	0.0718	2.7400e-003	0.0746		960.8503	960.8503	0.0539		962.1979
Worker	0.3065	0.1489	1.9568	7.9800e-003	1.1289	6.0200e-003	1.1350	0.2994	5.5400e-003	0.3049		796.8889	796.8889	0.0136		797.2290
Total	**0.3774**	**2.6909**	**2.7096**	**0.0169**	**1.3785**	**8.8800e-003**	**1.3874**	**0.3712**	**8.2800e-003**	**0.3795**		**1,757.7392**	**1,757.7392**	**0.0675**		**1,759.4270**

3.6 Paving - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	2.9100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8226**	**7.5321**	**12.1778**	**0.0189**		**0.3524**	**0.3524**		**0.3259**	**0.3259**		**1,805.3926**	**1,805.3926**	**0.5673**		**1,819.5741**

3.6 Paving - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0295	0.3875	1.5800e-003	0.2236	1.1900e-003	0.2247	0.0593	1.1000e-003	0.0604		157.7998	157.7998	2.6900e-003		157.8671
Total	**0.0607**	**0.0295**	**0.3875**	**1.5800e-003**	**0.2236**	**1.1900e-003**	**0.2247**	**0.0593**	**1.1000e-003**	**0.0604**		**157.7998**	**157.7998**	**2.6900e-003**		**157.8671**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	2.9100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8226**	**7.5321**	**12.1778**	**0.0189**		**0.3524**	**0.3524**		**0.3259**	**0.3259**	**0.0000**	**1,805.3926**	**1,805.3926**	**0.5673**		**1,819.5741**

3.6 Paving - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0295	0.3875	1.5800e-003	0.2236	1.1900e-003	0.2247	0.0593	1.1000e-003	0.0604		157.7998	157.7998	2.6900e-003		157.8671
Total	**0.0607**	**0.0295**	**0.3875**	**1.5800e-003**	**0.2236**	**1.1900e-003**	**0.2247**	**0.0593**	**1.1000e-003**	**0.0604**		**157.7998**	**157.7998**	**2.6900e-003**		**157.8671**

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	84.6359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**84.8067**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0295	0.3875	1.5800e-003	0.2236	1.1900e-003	0.2247	0.0593	1.1000e-003	0.0604		157.7998	157.7998	2.6900e-003		157.8671
Total	**0.0607**	**0.0295**	**0.3875**	**1.5800e-003**	**0.2236**	**1.1900e-003**	**0.2247**	**0.0593**	**1.1000e-003**	**0.0604**		**157.7998**	**157.7998**	**2.6900e-003**		**157.8671**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	84.6359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**84.8067**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0295	0.3875	1.5800e-003	0.2236	1.1900e-003	0.2247	0.0593	1.1000e-003	0.0604		157.7998	157.7998	2.6900e-003		157.8671
Total	**0.0607**	**0.0295**	**0.3875**	**1.5800e-003**	**0.2236**	**1.1900e-003**	**0.2247**	**0.0593**	**1.1000e-003**	**0.0604**		**157.7998**	**157.7998**	**2.6900e-003**		**157.8671**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4170	12.3699	25.7831	0.1131	11.5168	0.0755	11.5924	3.0800	0.0701	3.1501		11,599.5750	11,599.5750	0.5132		11,612.4057
Unmitigated	2.4170	12.3699	25.7831	0.1131	11.5168	0.0755	11.5924	3.0800	0.0701	3.1501		11,599.5750	11,599.5750	0.5132		11,612.4057

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	568.36	707.91	589.32	805,830	805,830
Hotel	1,862.76	1,867.32	1356.60	4,273,878	4,273,878
Parking Lot	0.00	0.00	0.00		
Total	2,431.12	2,575.23	1,945.92	5,079,708	5,079,708

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
High Turnover (Sit Down Restaurant)	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
Hotel	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770
Parking Lot	0.554577	0.041789	0.206455	0.111677	0.013024	0.005776	0.022231	0.034458	0.002161	0.001509	0.004856	0.000717	0.000770

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1421	1.2915	1.0849	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,549.8029	1,549.8029	0.0297	0.0284	1,559.0126
NaturalGas Unmitigated	0.1421	1.2915	1.0849	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,549.8029	1,549.8029	0.0297	0.0284	1,559.0126

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2823.49	0.0305	0.2768	0.2325	1.6600e-003		0.0210	0.0210		0.0210	0.0210		332.1754	332.1754	6.3700e-003	6.0900e-003	334.1494
Hotel	10349.8	0.1116	1.0147	0.8523	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.6275	1,217.6275	0.0233	0.0223	1,224.8633
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1421**	**1.2915**	**1.0849**	**7.7500e-003**		**0.0982**	**0.0982**		**0.0982**	**0.0982**		**1,549.8029**	**1,549.8029**	**0.0297**	**0.0284**	**1,559.0126**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.82349	0.0305	0.2768	0.2325	1.6600e-003		0.0210	0.0210		0.0210	0.0210		332.1754	332.1754	6.3700e-003	6.0900e-003	334.1494
Hotel	10.3498	0.1116	1.0147	0.8523	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.6275	1,217.6275	0.0233	0.0223	1,224.8633
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1421**	**1.2915**	**1.0849**	**7.7500e-003**		**0.0982**	**0.0982**		**0.0982**	**0.0982**		**1,549.8029**	**1,549.8029**	**0.0297**	**0.0284**	**1,559.0126**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.6566	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Unmitigated	3.6566	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4174					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2353					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Total	**3.6566**	**3.9000e-004**	**0.0435**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0936**	**0.0936**	**2.4000e-004**		**0.0996**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4174					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2353					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0435	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0936	0.0936	2.4000e-004		0.0996
Total	**3.6566**	**3.9000e-004**	**0.0435**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0936**	**0.0936**	**2.4000e-004**		**0.0996**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 5

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	16.20	1000sqft	0.07	16,205.00	0
Enclosed Parking with Elevator	403.00	Space	3.63	161,200.00	0
Parking Lot	9.00	Space	0.08	3,600.00	0
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.04	8,933.00	0
Apartments Mid Rise	15.00	Dwelling Unit	0.07	16,205.00	43
Condo/Townhouse	153.00	Dwelling Unit	1.08	253,351.00	438

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2030
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND's model. See SWAPE comment about parking.

Grading - Consistent with IS/MND's model.

Demolition - Consistent with the IS/MND's model.

Trips and VMT - Consistent with the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	51,537.00
tblLandUse	LandUseSquareFeet	16,200.00	16,205.00
tblLandUse	LandUseSquareFeet	8,930.00	8,933.00
tblLandUse	LandUseSquareFeet	15,000.00	16,205.00
tblLandUse	LandUseSquareFeet	153,000.00	253,351.00
tblLandUse	LotAcreage	0.37	0.07
tblLandUse	LotAcreage	0.21	0.04
tblLandUse	LotAcreage	0.39	0.07
tblLandUse	LotAcreage	9.56	1.08
tblTripsAndVMT	HaulingTripNumber	232.00	587.00
tblTripsAndVMT	HaulingTripNumber	5,096.00	10,308.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2029	0.2475	2.6248	2.5811	9.5500e-003	0.4284	0.0665	0.4949	0.1318	0.0624	0.1941	0.0000	892.3072	892.3072	0.1013	0.0000	894.8399
2030	1.0347	0.2988	0.5702	1.4600e-003	0.0570	5.8200e-003	0.0628	0.0153	5.8000e-003	0.0211	0.0000	129.2573	129.2573	4.8300e-003	0.0000	129.3782
Maximum	**1.0347**	**2.6248**	**2.5811**	**9.5500e-003**	**0.4284**	**0.0665**	**0.4949**	**0.1318**	**0.0624**	**0.1941**	**0.0000**	**892.3072**	**892.3072**	**0.1013**	**0.0000**	**894.8399**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2029	0.2475	2.6248	2.5811	9.5500e-003	0.4284	0.0665	0.4949	0.1318	0.0624	0.1941	0.0000	892.3068	892.3068	0.1013	0.0000	894.8395
2030	1.0347	0.2988	0.5702	1.4600e-003	0.0570	5.8200e-003	0.0628	0.0153	5.8000e-003	0.0211	0.0000	129.2573	129.2573	4.8300e-003	0.0000	129.3781
Maximum	**1.0347**	**2.6248**	**2.5811**	**9.5500e-003**	**0.4284**	**0.0665**	**0.4949**	**0.1318**	**0.0624**	**0.1941**	**0.0000**	**892.3068**	**892.3068**	**0.1013**	**0.0000**	**894.8395**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**2-23-2029**	**5-22-2029**	1.4820	1.4820
2	**5-23-2029**	**8-22-2029**	0.5893	0.5893
3	**8-23-2029**	**11-22-2029**	0.5909	0.5909
4	**11-23-2029**	**2-22-2030**	0.5034	0.5034
5	**2-23-2030**	**5-22-2030**	1.1078	1.1078
		Highest	1.4820	1.4820

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7763	0.0635	2.8015	2.8200e-003		0.1700	0.1700		0.1700	0.1700	17.8448	37.1325	54.9773	0.0559	1.2100e-003	56.7367
Energy	0.0262	0.2301	0.1432	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	1,584.6857	1,584.6857	0.0363	0.0112	1,588.9376
Mobile	0.3757	2.0742	4.3667	0.0200	2.0256	0.0125	2.0381	0.5425	0.0116	0.5541	0.0000	1,864.4134	1,864.4134	0.0779	0.0000	1,866.3607
Waste						0.0000	0.0000		0.0000	0.0000	40.3181	0.0000	40.3181	2.3827	0.0000	99.8863
Water						0.0000	0.0000		0.0000	0.0000	5.2460	174.6109	179.8569	0.5429	0.0136	197.4760
Total	**2.1781**	**2.3678**	**7.3113**	**0.0243**	**2.0256**	**0.2006**	**2.2262**	**0.5425**	**0.1997**	**0.7423**	**63.4089**	**3,660.8424**	**3,724.2513**	**3.0958**	**0.0260**	**3,809.3973**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7763	0.0635	2.8015	2.8200e-003		0.1700	0.1700		0.1700	0.1700	17.8448	37.1325	54.9773	0.0559	1.2100e-003	56.7367
Energy	0.0262	0.2301	0.1432	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	1,584.6857	1,584.6857	0.0363	0.0112	1,588.9376
Mobile	0.3757	2.0742	4.3667	0.0200	2.0256	0.0125	2.0381	0.5425	0.0116	0.5541	0.0000	1,864.4134	1,864.4134	0.0779	0.0000	1,866.3607
Waste						0.0000	0.0000		0.0000	0.0000	40.3181	0.0000	40.3181	2.3827	0.0000	99.8863
Water						0.0000	0.0000		0.0000	0.0000	5.2460	174.6109	179.8569	0.5429	0.0136	197.4760
Total	**2.1781**	**2.3678**	**7.3113**	**0.0243**	**2.0256**	**0.2006**	**2.2262**	**0.5425**	**0.1997**	**0.7423**	**63.4089**	**3,660.8424**	**3,724.2513**	**3.0958**	**0.0260**	**3,809.3973**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/23/2029	3/22/2029	5	20	
2	Site Preparation	Site Preparation	3/23/2029	3/29/2029	5	5	
3	Grading	Grading	3/30/2029	4/10/2029	5	8	
4	Building Construction	Building Construction	4/11/2029	2/26/2030	5	230	
5	Paving	Paving	2/27/2030	3/22/2030	5	18	
6	Architectural Coating	Architectural Coating	3/23/2030	4/17/2030	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 3.71

Residential Indoor: 545,851; Residential Outdoor: 181,950; Non-Residential Indoor: 37,707; Non-Residential Outdoor: 12,569; Striped Parking Area: 9,888 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Warner Center Phase 5 - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	587.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10,308.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	199.00	49.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0251	0.0000	0.0251	3.8000e-003	0.0000	3.8000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350
Total	**0.0209**	**0.1920**	**0.1942**	**3.9000e-004**	**0.0251**	**8.5300e-003**	**0.0336**	**3.8000e-003**	**7.9200e-003**	**0.0117**	**0.0000**	**33.9977**	**33.9977**	**9.4900e-003**	**0.0000**	**34.2350**

3.2 Demolition - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3700e-003	0.0428	0.0161	2.0000e-004	5.0400e-003	8.0000e-005	5.1200e-003	1.3800e-003	7.0000e-005	1.4600e-003	0.0000	20.2940	20.2940	1.4100e-003	0.0000	20.3293
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.3000e-004	2.9900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.0906	1.0906	2.0000e-005	0.0000	1.0911
Total	**1.7800e-003**	**0.0431**	**0.0191**	**2.1000e-004**	**6.6900e-003**	**9.0000e-005**	**6.7700e-003**	**1.8200e-003**	**8.0000e-005**	**1.9100e-003**	**0.0000**	**21.3846**	**21.3846**	**1.4300e-003**	**0.0000**	**21.4203**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0251	0.0000	0.0251	3.8000e-003	0.0000	3.8000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349
Total	**0.0209**	**0.1920**	**0.1942**	**3.9000e-004**	**0.0251**	**8.5300e-003**	**0.0336**	**3.8000e-003**	**7.9200e-003**	**0.0117**	**0.0000**	**33.9976**	**33.9976**	**9.4900e-003**	**0.0000**	**34.2349**

3.2 Demolition - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3700e-003	0.0428	0.0161	2.0000e-004	5.0400e-003	8.0000e-005	5.1200e-003	1.3800e-003	7.0000e-005	1.4600e-003	0.0000	20.2940	20.2940	1.4100e-003	0.0000	20.3293
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.3000e-004	2.9900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.0906	1.0906	2.0000e-005	0.0000	1.0911
Total	**1.7800e-003**	**0.0431**	**0.0191**	**2.1000e-004**	**6.6900e-003**	**9.0000e-005**	**6.7700e-003**	**1.8200e-003**	**8.0000e-005**	**1.9100e-003**	**0.0000**	**21.3846**	**21.3846**	**1.4300e-003**	**0.0000**	**21.4203**

3.3 Site Preparation - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1800e-003	0.0631	0.0448	1.0000e-004		2.7200e-003	2.7200e-003		2.5000e-003	2.5000e-003	0.0000	8.3668	8.3668	2.7100e-003	0.0000	8.4344
Total	**6.1800e-003**	**0.0631**	**0.0448**	**1.0000e-004**	**0.0452**	**2.7200e-003**	**0.0479**	**0.0248**	**2.5000e-003**	**0.0273**	**0.0000**	**8.3668**	**8.3668**	**2.7100e-003**	**0.0000**	**8.4344**

3.3 Site Preparation - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	7.0000e-005	9.0000e-004	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3272	0.3272	1.0000e-005	0.0000	0.3273
Total	**1.2000e-004**	**7.0000e-005**	**9.0000e-004**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3272**	**0.3272**	**1.0000e-005**	**0.0000**	**0.3273**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1800e-003	0.0631	0.0448	1.0000e-004		2.7200e-003	2.7200e-003		2.5000e-003	2.5000e-003	0.0000	8.3667	8.3667	2.7100e-003	0.0000	8.4344
Total	**6.1800e-003**	**0.0631**	**0.0448**	**1.0000e-004**	**0.0452**	**2.7200e-003**	**0.0479**	**0.0248**	**2.5000e-003**	**0.0273**	**0.0000**	**8.3667**	**8.3667**	**2.7100e-003**	**0.0000**	**8.4344**

3.3 Site Preparation - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	7.0000e-005	9.0000e-004	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3272	0.3272	1.0000e-005	0.0000	0.3273
Total	**1.2000e-004**	**7.0000e-005**	**9.0000e-004**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3272**	**0.3272**	**1.0000e-005**	**0.0000**	**0.3273**

3.4 Grading - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0613	0.0582	1.2000e-004		2.4900e-003	2.4900e-003		2.2900e-003	2.2900e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122
Total	**6.0900e-003**	**0.0613**	**0.0582**	**1.2000e-004**	**0.0262**	**2.4900e-003**	**0.0287**	**0.0135**	**2.2900e-003**	**0.0158**	**0.0000**	**10.4279**	**10.4279**	**3.3700e-003**	**0.0000**	**10.5122**

3.4 Grading - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0240	0.7522	0.2821	3.5900e-003	0.0886	1.3700e-003	0.0900	0.0243	1.3100e-003	0.0256	0.0000	356.3718	356.3718	0.0248	0.0000	356.9917
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	9.0000e-005	1.2000e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4362	0.4362	1.0000e-005	0.0000	0.4364
Total	**0.0242**	**0.7523**	**0.2833**	**3.5900e-003**	**0.0892**	**1.3700e-003**	**0.0906**	**0.0245**	**1.3100e-003**	**0.0258**	**0.0000**	**356.8080**	**356.8080**	**0.0248**	**0.0000**	**357.4281**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0613	0.0582	1.2000e-004		2.4900e-003	2.4900e-003		2.2900e-003	2.2900e-003	0.0000	10.4279	10.4279	3.3700e-003	0.0000	10.5122
Total	**6.0900e-003**	**0.0613**	**0.0582**	**1.2000e-004**	**0.0262**	**2.4900e-003**	**0.0287**	**0.0135**	**2.2900e-003**	**0.0158**	**0.0000**	**10.4279**	**10.4279**	**3.3700e-003**	**0.0000**	**10.5122**

3.4 Grading - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0240	0.7522	0.2821	3.5900e-003	0.0886	1.3700e-003	0.0900	0.0243	1.3100e-003	0.0256	0.0000	356.3718	356.3718	0.0248	0.0000	356.9917
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	9.0000e-005	1.2000e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4362	0.4362	1.0000e-005	0.0000	0.4364
Total	**0.0242**	**0.7523**	**0.2833**	**3.5900e-003**	**0.0892**	**1.3700e-003**	**0.0906**	**0.0245**	**1.3100e-003**	**0.0258**	**0.0000**	**356.8080**	**356.8080**	**0.0248**	**0.0000**	**357.4281**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	1.1784	1.5200	2.5500e-003		0.0499	0.0499		0.0469	0.0469	0.0000	219.1639	219.1639	0.0515	0.0000	220.4519
Total	**0.1292**	**1.1784**	**1.5200**	**2.5500e-003**		**0.0499**	**0.0499**		**0.0469**	**0.0469**	**0.0000**	**219.1639**	**219.1639**	**0.0515**	**0.0000**	**220.4519**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.1900e-003	0.3061	0.0858	1.0800e-003	0.0292	3.3000e-004	0.0295	8.4200e-003	3.2000e-004	8.7400e-003	0.0000	105.1046	105.1046	5.6400e-003	0.0000	105.2456
Worker	0.0508	0.0286	0.3749	1.5100e-003	0.2063	1.1200e-003	0.2074	0.0548	1.0300e-003	0.0558	0.0000	136.7266	136.7266	2.3400e-003	0.0000	136.7850
Total	**0.0590**	**0.3347**	**0.4607**	**2.5900e-003**	**0.2355**	**1.4500e-003**	**0.2370**	**0.0632**	**1.3500e-003**	**0.0646**	**0.0000**	**241.8312**	**241.8312**	**7.9800e-003**	**0.0000**	**242.0306**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	1.1784	1.5200	2.5500e-003		0.0499	0.0499		0.0469	0.0469	0.0000	219.1636	219.1636	0.0515	0.0000	220.4516
Total	**0.1292**	**1.1784**	**1.5200**	**2.5500e-003**		**0.0499**	**0.0499**		**0.0469**	**0.0469**	**0.0000**	**219.1636**	**219.1636**	**0.0515**	**0.0000**	**220.4516**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.1900e-003	0.3061	0.0858	1.0800e-003	0.0292	3.3000e-004	0.0295	8.4200e-003	3.2000e-004	8.7400e-003	0.0000	105.1046	105.1046	5.6400e-003	0.0000	105.2456
Worker	0.0508	0.0286	0.3749	1.5100e-003	0.2063	1.1200e-003	0.2074	0.0548	1.0300e-003	0.0558	0.0000	136.7266	136.7266	2.3400e-003	0.0000	136.7850
Total	**0.0590**	**0.3347**	**0.4607**	**2.5900e-003**	**0.2355**	**1.4500e-003**	**0.2370**	**0.0632**	**1.3500e-003**	**0.0646**	**0.0000**	**241.8312**	**241.8312**	**7.9800e-003**	**0.0000**	**242.0306**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0268	0.1627	0.3312	6.3000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	53.8865	53.8865	2.1600e-003	0.0000	53.9406
Total	**0.0268**	**0.1627**	**0.3312**	**6.3000e-004**		**3.0400e-003**	**3.0400e-003**		**3.0400e-003**	**3.0400e-003**	**0.0000**	**53.8865**	**53.8865**	**2.1600e-003**	**0.0000**	**53.9406**

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7500e-003	0.0659	0.0184	2.3000e-004	6.3300e-003	7.0000e-005	6.4000e-003	1.8300e-003	7.0000e-005	1.8900e-003	0.0000	22.7233	22.7233	1.2100e-003	0.0000	22.7535
Worker	0.0103	5.6900e-003	0.0764	3.2000e-004	0.0448	2.3000e-004	0.0450	0.0119	2.1000e-004	0.0121	0.0000	28.9312	28.9312	4.7000e-004	0.0000	28.9429
Total	**0.0121**	**0.0716**	**0.0949**	**5.5000e-004**	**0.0511**	**3.0000e-004**	**0.0514**	**0.0137**	**2.8000e-004**	**0.0140**	**0.0000**	**51.6545**	**51.6545**	**1.6800e-003**	**0.0000**	**51.6963**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0268	0.1627	0.3312	6.3000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	53.8864	53.8864	2.1600e-003	0.0000	53.9405
Total	**0.0268**	**0.1627**	**0.3312**	**6.3000e-004**		**3.0400e-003**	**3.0400e-003**		**3.0400e-003**	**3.0400e-003**	**0.0000**	**53.8864**	**53.8864**	**2.1600e-003**	**0.0000**	**53.9405**

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7500e-003	0.0659	0.0184	2.3000e-004	6.3300e-003	7.0000e-005	6.4000e-003	1.8300e-003	7.0000e-005	1.8900e-003	0.0000	22.7233	22.7233	1.2100e-003	0.0000	22.7535
Worker	0.0103	5.6900e-003	0.0764	3.2000e-004	0.0448	2.3000e-004	0.0450	0.0119	2.1000e-004	0.0121	0.0000	28.9312	28.9312	4.7000e-004	0.0000	28.9429
Total	**0.0121**	**0.0716**	**0.0949**	**5.5000e-004**	**0.0511**	**3.0000e-004**	**0.0514**	**0.0137**	**2.8000e-004**	**0.0140**	**0.0000**	**51.6545**	**51.6545**	**1.6800e-003**	**0.0000**	**51.6963**

3.6 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.0561	0.1178	2.1000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	17.5888	17.5888	8.4000e-004	0.0000	17.6099
Paving	1.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0105**	**0.0561**	**0.1178**	**2.1000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**17.5888**	**17.5888**	**8.4000e-004**	**0.0000**	**17.6099**

3.6 Paving - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	2.5000e-004	3.3700e-003	1.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.2765	1.2765	2.0000e-005	0.0000	1.2771
Total	**4.6000e-004**	**2.5000e-004**	**3.3700e-003**	**1.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9800e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.2765**	**1.2765**	**2.0000e-005**	**0.0000**	**1.2771**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.0561	0.1178	2.1000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	17.5888	17.5888	8.4000e-004	0.0000	17.6099
Paving	1.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0105**	**0.0561**	**0.1178**	**2.1000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**17.5888**	**17.5888**	**8.4000e-004**	**0.0000**	**17.6099**

3.6 Paving - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	2.5000e-004	3.3700e-003	1.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.2765	1.2765	2.0000e-005	0.0000	1.2771
Total	**4.6000e-004**	**2.5000e-004**	**3.3700e-003**	**1.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9800e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.2765**	**1.2765**	**2.0000e-005**	**0.0000**	**1.2771**

3.7 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9828					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1800e-003	7.7100e-003	0.0162	3.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.2979	2.2979	9.0000e-005	0.0000	2.3003
Total	**0.9840**	**7.7100e-003**	**0.0162**	**3.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**2.2979**	**2.2979**	**9.0000e-005**	**0.0000**	**2.3003**

3.7 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	5.0000e-004	6.7400e-003	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	2.5531	2.5531	4.0000e-005	0.0000	2.5541
Total	**9.1000e-004**	**5.0000e-004**	**6.7400e-003**	**3.0000e-005**	**3.9500e-003**	**2.0000e-005**	**3.9700e-003**	**1.0500e-003**	**2.0000e-005**	**1.0700e-003**	**0.0000**	**2.5531**	**2.5531**	**4.0000e-005**	**0.0000**	**2.5541**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9828					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1800e-003	7.7100e-003	0.0162	3.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.2979	2.2979	9.0000e-005	0.0000	2.3003
Total	**0.9840**	**7.7100e-003**	**0.0162**	**3.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**2.2979**	**2.2979**	**9.0000e-005**	**0.0000**	**2.3003**

3.7 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	5.0000e-004	6.7400e-003	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	2.5531	2.5531	4.0000e-005	0.0000	2.5541
Total	**9.1000e-004**	**5.0000e-004**	**6.7400e-003**	**3.0000e-005**	**3.9500e-003**	**2.0000e-005**	**3.9700e-003**	**1.0500e-003**	**2.0000e-005**	**1.0700e-003**	**0.0000**	**2.5531**	**2.5531**	**4.0000e-005**	**0.0000**	**2.5541**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3757	2.0742	4.3667	0.0200	2.0256	0.0125	2.0381	0.5425	0.0116	0.5541	0.0000	1,864.4134	1,864.4134	0.0779	0.0000	1,866.3607
Unmitigated	0.3757	2.0742	4.3667	0.0200	2.0256	0.0125	2.0381	0.5425	0.0116	0.5541	0.0000	1,864.4134	1,864.4134	0.0779	0.0000	1,866.3607

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	99.75	95.85	87.90	333,172	333,172
Condo/Townhouse	888.93	867.51	740.52	2,954,704	2,954,704
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	178.69	39.85	17.01	437,333	437,333
High Turnover (Sit Down Restaurant)	1,135.45	1,414.24	1177.33	1,609,858	1,609,858
Parking Lot	0.00	0.00	0.00		
Total	2,302.82	2,417.46	2,022.76	5,335,067	5,335,067

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Condo/Townhouse	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Enclosed Parking with Elevator	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
General Office Building	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
High Turnover (Sit Down Restaurant)	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Parking Lot	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Warner Center Phase 5 - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,325.7813	1,325.7813	0.0313	6.4800e-003	1,328.4946
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,325.7813	1,325.7813	0.0313	6.4800e-003	1,328.4946
NaturalGas Mitigated	0.0262	0.2301	0.1432	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	258.9044	258.9044	4.9600e-003	4.7500e-003	260.4430
NaturalGas Unmitigated	0.0262	0.2301	0.1432	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	258.9044	258.9044	4.9600e-003	4.7500e-003	260.4430

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	164673	8.9000e-004	7.5900e-003	3.2300e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7876	8.7876	1.7000e-004	1.6000e-004	8.8398
Condo/Townhouse	2.45694e+006	0.0133	0.1132	0.0482	7.2000e-004		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003	0.0000	131.1117	131.1117	2.5100e-003	2.4000e-003	131.8908
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	168694	9.1000e-004	8.2700e-003	6.9500e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	9.0022	9.0022	1.7000e-004	1.7000e-004	9.0557
High Turnover (Sit Down Restaurant)	2.06138e+006	0.0111	0.1011	0.0849	6.1000e-004		7.6800e-003	7.6800e-003		7.6800e-003	7.6800e-003	0.0000	110.0030	110.0030	2.1100e-003	2.0200e-003	110.6567
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0262**	**0.2301**	**0.1432**	**1.4300e-003**		**0.0181**	**0.0181**		**0.0181**	**0.0181**	**0.0000**	**258.9044**	**258.9044**	**4.9600e-003**	**4.7500e-003**	**260.4430**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	164673	8.9000e-004	7.5900e-003	3.2300e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7876	8.7876	1.7000e-004	1.6000e-004	8.8398
Condo/Townhouse	2.45694e+006	0.0133	0.1132	0.0482	7.2000e-004		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003	0.0000	131.1117	131.1117	2.5100e-003	2.4000e-003	131.8908
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	168694	9.1000e-004	8.2700e-003	6.9500e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	9.0022	9.0022	1.7000e-004	1.7000e-004	9.0557
High Turnover (Sit Down Restaurant)	2.06138e+006	0.0111	0.1011	0.0849	6.1000e-004		7.6800e-003	7.6800e-003		7.6800e-003	7.6800e-003	0.0000	110.0030	110.0030	2.1100e-003	2.0200e-003	110.6567
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0262**	**0.2301**	**0.1432**	**1.4300e-003**		**0.0181**	**0.0181**		**0.0181**	**0.0181**	**0.0000**	**258.9044**	**258.9044**	**4.9600e-003**	**4.7500e-003**	**260.4430**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	60804.5	33.8657	8.0000e-004	1.7000e-004	33.9351
Condo/Townhouse	768880	428.2366	0.0101	2.0900e-003	429.1131
Enclosed Parking with Elevator	944632	526.1237	0.0124	2.5700e-003	527.2005
General Office Building	210503	117.2421	2.7700e-003	5.7000e-004	117.4820
High Turnover (Sit Down Restaurant)	394303	219.6114	5.1900e-003	1.0700e-003	220.0609
Parking Lot	1260	0.7018	2.0000e-005	0.0000	0.7032
Total		**1,325.7813**	**0.0313**	**6.4700e-003**	**1,328.4946**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	60804.5	33.8657	8.0000e-004	1.7000e-004	33.9351
Condo/Townhouse	768880	428.2366	0.0101	2.0900e-003	429.1131
Enclosed Parking with Elevator	944632	526.1237	0.0124	2.5700e-003	527.2005
General Office Building	210503	117.2421	2.7700e-003	5.7000e-004	117.4820
High Turnover (Sit Down Restaurant)	394303	219.6114	5.1900e-003	1.0700e-003	220.0609
Parking Lot	1260	0.7018	2.0000e-005	0.0000	0.7032
Total		**1,325.7813**	**0.0313**	**6.4700e-003**	**1,328.4946**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7763	0.0635	2.8015	2.8200e-003		0.1700	0.1700		0.1700	0.1700	17.8448	37.1325	54.9773	0.0559	1.2100e-003	56.7367
Unmitigated	1.7763	0.0635	2.8015	2.8200e-003		0.1700	0.1700		0.1700	0.1700	17.8448	37.1325	54.9773	0.0559	1.2100e-003	56.7367

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.5503	0.0436	1.0680	2.7200e-003		0.1604	0.1604		0.1604	0.1604	17.8448	34.2916	52.1364	0.0532	1.2100e-003	53.8277
Landscaping	0.0522	0.0200	1.7335	9.0000e-005		9.6300e-003	9.6300e-003		9.6300e-003	9.6300e-003	0.0000	2.8409	2.8409	2.7200e-003	0.0000	2.9090
Total	**1.7763**	**0.0635**	**2.8015**	**2.8100e-003**		**0.1701**	**0.1701**		**0.1701**	**0.1701**	**17.8448**	**37.1325**	**54.9773**	**0.0559**	**1.2100e-003**	**56.7367**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.5503	0.0436	1.0680	2.7200e-003		0.1604	0.1604		0.1604	0.1604	17.8448	34.2916	52.1364	0.0532	1.2100e-003	53.8277
Landscaping	0.0522	0.0200	1.7335	9.0000e-005		9.6300e-003	9.6300e-003		9.6300e-003	9.6300e-003	0.0000	2.8409	2.8409	2.7200e-003	0.0000	2.9090
Total	**1.7763**	**0.0635**	**2.8015**	**2.8100e-003**		**0.1701**	**0.1701**		**0.1701**	**0.1701**	**17.8448**	**37.1325**	**54.9773**	**0.0559**	**1.2100e-003**	**56.7367**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	179.8569	0.5429	0.0136	197.4760
Unmitigated	179.8569	0.5429	0.0136	197.4760

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.97731 / 0.61613	11.2102	0.0321	8.1000e-004	12.2528
Condo/Townhouse	9.96857 / 6.28453	114.3443	0.3275	8.2100e-003	124.9781
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.87929 / 1.76472	32.7145	0.0946	2.3700e-003	35.7852
High Turnover (Sit Down Restaurant)	2.71056 / 0.173014	21.5880	0.0888	2.1900e-003	24.4600
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**179.8569**	**0.5429**	**0.0136**	**197.4760**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.97731 / 0.61613	11.2102	0.0321	8.1000e-004	12.2528
Condo/Townhouse	9.96857 / 6.28453	114.3443	0.3275	8.2100e-003	124.9781
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.87929 / 1.76472	32.7145	0.0946	2.3700e-003	35.7852
High Turnover (Sit Down Restaurant)	2.71056 / 0.173014	21.5880	0.0888	2.1900e-003	24.4600
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**179.8569**	**0.5429**	**0.0136**	**197.4760**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	40.3181	2.3827	0.0000	99.8863
Unmitigated	40.3181	2.3827	0.0000	99.8863

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	6.9	1.4006	0.0828	0.0000	3.4700
Condo/Townhouse	70.38	14.2865	0.8443	0.0000	35.3942
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	15.07	3.0591	0.1808	0.0000	7.5787
High Turnover (Sit Down Restaurant)	106.27	21.5719	1.2749	0.0000	53.4433
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**40.3181**	**2.3827**	**0.0000**	**99.8863**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	6.9	1.4006	0.0828	0.0000	3.4700
Condo/Townhouse	70.38	14.2865	0.8443	0.0000	35.3942
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	15.07	3.0591	0.1808	0.0000	7.5787
High Turnover (Sit Down Restaurant)	106.27	21.5719	1.2749	0.0000	53.4433
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**40.3181**	**2.3827**	**0.0000**	**99.8863**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 5

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	16.20	1000sqft	0.07	16,205.00	0
Enclosed Parking with Elevator	403.00	Space	3.63	161,200.00	0
Parking Lot	9.00	Space	0.08	3,600.00	0
High Turnover (Sit Down Restaurant)	8.93	1000sqft	0.04	8,933.00	0
Apartments Mid Rise	15.00	Dwelling Unit	0.07	16,205.00	43
Condo/Townhouse	153.00	Dwelling Unit	1.08	253,351.00	438

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2030
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND's model. See SWAPE comment about parking.

Grading - Consistent with IS/MND's model.

Demolition - Consistent with the IS/MND's model.

Trips and VMT - Consistent with the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	51,537.00
tblLandUse	LandUseSquareFeet	16,200.00	16,205.00
tblLandUse	LandUseSquareFeet	8,930.00	8,933.00
tblLandUse	LandUseSquareFeet	15,000.00	16,205.00
tblLandUse	LandUseSquareFeet	153,000.00	253,351.00
tblLandUse	LotAcreage	0.37	0.07
tblLandUse	LotAcreage	0.21	0.04
tblLandUse	LotAcreage	0.39	0.07
tblLandUse	LotAcreage	9.56	1.08
tblTripsAndVMT	HaulingTripNumber	232.00	587.00
tblTripsAndVMT	HaulingTripNumber	5,096.00	10,308.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2029	7.5107	199.1109	84.1055	0.9337	29.2269	1.0879	30.1906	9.9840	1.0008	10.9849	0.0000	101,899.1341	101,899.1341	7.6898	0.0000	102,091.3794
2030	109.4282	11.3670	21.0659	0.0588	2.5379	0.2539	2.7005	0.6802	0.2538	0.8418	0.0000	5,766.6704	5,766.6704	0.2062	0.0000	5,771.8242
Maximum	**109.4282**	**199.1109**	**84.1055**	**0.9337**	**29.2269**	**1.0879**	**30.1906**	**9.9840**	**1.0008**	**10.9849**	**0.0000**	**101,899.1341**	**101,899.1341**	**7.6898**	**0.0000**	**102,091.3794**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2029	7.5107	199.1109	84.1055	0.9337	29.2269	1.0879	30.1906	9.9840	1.0008	10.9849	0.0000	101,899.1341	101,899.1341	7.6898	0.0000	102,091.3794
2030	109.4282	11.3670	21.0659	0.0588	2.5379	0.2539	2.7005	0.6802	0.2538	0.8418	0.0000	5,766.6704	5,766.6704	0.2062	0.0000	5,771.8242
Maximum	**109.4282**	**199.1109**	**84.1055**	**0.9337**	**29.2269**	**1.0879**	**30.1906**	**9.9840**	**1.0008**	**10.9849**	**0.0000**	**101,899.1341**	**101,899.1341**	**7.6898**	**0.0000**	**102,091.3794**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	50.8714	3.6455	99.3047	0.2187		12.9103	12.9103		12.9103	12.9103	1,573.6423	3,049.0525	4,622.6947	4.7169	0.1068	4,772.4467
Energy	0.1434	1.2609	0.7848	7.8200e-003		0.0990	0.0990		0.0990	0.0990		1,563.7988	1,563.7988	0.0300	0.0287	1,573.0916
Mobile	2.5047	12.5166	27.6176	0.1263	12.4964	0.0760	12.5724	3.3419	0.0706	3.4125		12,950.3985	12,950.3985	0.5225		12,963.4604
Total	**53.5195**	**17.4230**	**127.7071**	**0.3529**	**12.4964**	**13.0853**	**25.5817**	**3.3419**	**13.0799**	**16.4218**	**1,573.6423**	**17,563.2497**	**19,136.8920**	**5.2694**	**0.1355**	**19,308.9987**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	50.8714	3.6455	99.3047	0.2187		12.9103	12.9103		12.9103	12.9103	1,573.6423	3,049.0525	4,622.6947	4.7169	0.1068	4,772.4467
Energy	0.1434	1.2609	0.7848	7.8200e-003		0.0990	0.0990		0.0990	0.0990		1,563.7988	1,563.7988	0.0300	0.0287	1,573.0916
Mobile	2.5047	12.5166	27.6176	0.1263	12.4964	0.0760	12.5724	3.3419	0.0706	3.4125		12,950.3985	12,950.3985	0.5225		12,963.4604
Total	**53.5195**	**17.4230**	**127.7071**	**0.3529**	**12.4964**	**13.0853**	**25.5817**	**3.3419**	**13.0799**	**16.4218**	**1,573.6423**	**17,563.2497**	**19,136.8920**	**5.2694**	**0.1355**	**19,308.9987**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/23/2029	3/22/2029	5	20	
2	Site Preparation	Site Preparation	3/23/2029	3/29/2029	5	5	
3	Grading	Grading	3/30/2029	4/10/2029	5	8	
4	Building Construction	Building Construction	4/11/2029	2/26/2030	5	230	
5	Paving	Paving	2/27/2030	3/22/2030	5	18	
6	Architectural Coating	Architectural Coating	3/23/2030	4/17/2030	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 3.71

Residential Indoor: 545,851; Residential Outdoor: 181,950; Non-Residential Indoor: 37,707; Non-Residential Outdoor: 12,569; Striped Parking Area: 9,888 (Architectural Coating – sqft)

OffRoad Equipment

Warner Center Phase 5 - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	587.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10,308.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	199.00	49.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5101	0.0000	2.5101	0.3801	0.0000	0.3801			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	**2.0926**	**19.1966**	**19.4184**	**0.0388**	**2.5101**	**0.8528**	**3.3629**	**0.3801**	**0.7920**	**1.1720**		**3,747.5996**	**3,747.5996**	**1.0464**		**3,773.7606**

3.2 Demolition - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1355	4.1861	1.5772	0.0206	0.5127	7.7300e-003	0.5204	0.1405	7.3900e-003	0.1479		2,252.7678	2,252.7678	0.1539		2,256.6164
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0404	0.0202	0.3246	1.2700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		126.2354	126.2354	2.1700e-003		126.2897
Total	**0.1759**	**4.2063**	**1.9018**	**0.0218**	**0.6803**	**8.6200e-003**	**0.6890**	**0.1850**	**8.2100e-003**	**0.1932**		**2,379.0032**	**2,379.0032**	**0.1561**		**2,382.9061**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5101	0.0000	2.5101	0.3801	0.0000	0.3801			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	**2.0926**	**19.1966**	**19.4184**	**0.0388**	**2.5101**	**0.8528**	**3.3629**	**0.3801**	**0.7920**	**1.1720**	**0.0000**	**3,747.5996**	**3,747.5996**	**1.0464**		**3,773.7606**

3.2 Demolition - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1355	4.1861	1.5772	0.0206	0.5127	7.7300e-003	0.5204	0.1405	7.3900e-003	0.1479		2,252.7678	2,252.7678	0.1539		2,256.6164
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0404	0.0202	0.3246	1.2700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		126.2354	126.2354	2.1700e-003		126.2897
Total	**0.1759**	**4.2063**	**1.9018**	**0.0218**	**0.6803**	**8.6200e-003**	**0.6890**	**0.1850**	**8.2100e-003**	**0.1932**		**2,379.0032**	**2,379.0032**	**0.1561**		**2,382.9061**

3.3 Site Preparation - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**		**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

3.3 Site Preparation - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0242	0.3895	1.5200e-003	0.2012	1.0700e-003	0.2023	0.0534	9.9000e-004	0.0544		151.4825	151.4825	2.6100e-003		151.5477
Total	**0.0485**	**0.0242**	**0.3895**	**1.5200e-003**	**0.2012**	**1.0700e-003**	**0.2023**	**0.0534**	**9.9000e-004**	**0.0544**		**151.4825**	**151.4825**	**2.6100e-003**		**151.5477**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**	**0.0000**	**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

3.3 Site Preparation - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0242	0.3895	1.5200e-003	0.2012	1.0700e-003	0.2023	0.0534	9.9000e-004	0.0544		151.4825	151.4825	2.6100e-003		151.5477
Total	**0.0485**	**0.0242**	**0.3895**	**1.5200e-003**	**0.2012**	**1.0700e-003**	**0.2023**	**0.0534**	**9.9000e-004**	**0.0544**		**151.4825**	**151.4825**	**2.6100e-003**		**151.5477**

3.4 Grading - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737		2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**6.5523**	**0.6236**	**7.1759**	**3.3675**	**0.5737**	**3.9412**		**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

3.4 Grading - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9476	183.7760	69.2407	0.9027	22.5069	0.3392	22.8461	6.1673	0.3245	6.4918		98,899.1935	98,899.1935	6.7582		99,068.1492
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0404	0.0202	0.3246	1.2700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		126.2354	126.2354	2.1700e-003		126.2897
Total	**5.9881**	**183.7962**	**69.5653**	**0.9040**	**22.6746**	**0.3400**	**23.0147**	**6.2118**	**0.3253**	**6.5371**		**99,025.4289**	**99,025.4289**	**6.7604**		**99,194.4389**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5227	15.3148	14.5402	0.0297		0.6236	0.6236		0.5737	0.5737	0.0000	2,873.7052	2,873.7052	0.9294		2,896.9405
Total	**1.5227**	**15.3148**	**14.5402**	**0.0297**	**6.5523**	**0.6236**	**7.1759**	**3.3675**	**0.5737**	**3.9412**	**0.0000**	**2,873.7052**	**2,873.7052**	**0.9294**		**2,896.9405**

3.4 Grading - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9476	183.7760	69.2407	0.9027	22.5069	0.3392	22.8461	6.1673	0.3245	6.4918		98,899.1935	98,899.1935	6.7582		99,068.1492
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0404	0.0202	0.3246	1.2700e-003	0.1677	8.9000e-004	0.1686	0.0445	8.2000e-004	0.0453		126.2354	126.2354	2.1700e-003		126.2897
Total	**5.9881**	**183.7962**	**69.5653**	**0.9040**	**22.6746**	**0.3400**	**23.0147**	**6.2118**	**0.3253**	**6.5371**		**99,025.4289**	**99,025.4289**	**6.7604**		**99,194.4389**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0848	3.2104	0.8660	0.0115	0.3136	3.5000e-003	0.3171	0.0903	3.3500e-003	0.0936		1,239.6159	1,239.6159	0.0642		1,241.2212
Worker	0.5365	0.2678	4.3058	0.0168	2.2244	0.0119	2.2362	0.5899	0.0109	0.6008		1,674.7230	1,674.7230	0.0288		1,675.4438
Total	**0.6213**	**3.4782**	**5.1718**	**0.0283**	**2.5379**	**0.0154**	**2.5533**	**0.6802**	**0.0143**	**0.6944**		**2,914.3389**	**2,914.3389**	**0.0931**		**2,916.6650**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0848	3.2104	0.8660	0.0115	0.3136	3.5000e-003	0.3171	0.0903	3.3500e-003	0.0936		1,239.6159	1,239.6159	0.0642		1,241.2212
Worker	0.5365	0.2678	4.3058	0.0168	2.2244	0.0119	2.2362	0.5899	0.0109	0.6008		1,674.7230	1,674.7230	0.0288		1,675.4438
Total	**0.6213**	**3.4782**	**5.1718**	**0.0283**	**2.5379**	**0.0154**	**2.5533**	**0.6802**	**0.0143**	**0.6944**		**2,914.3389**	**2,914.3389**	**0.0931**		**2,916.6650**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0836	3.1863	0.8577	0.0115	0.3136	3.4400e-003	0.3170	0.0903	3.2900e-003	0.0936		1,235.3858	1,235.3858	0.0634		1,236.9717
Worker	0.5018	0.2462	4.0513	0.0164	2.2244	0.0110	2.2354	0.5899	0.0102	0.6001		1,633.7379	1,633.7379	0.0265		1,634.3996
Total	**0.5854**	**3.4324**	**4.9089**	**0.0278**	**2.5379**	**0.0145**	**2.5524**	**0.6802**	**0.0135**	**0.6936**		**2,869.1237**	**2,869.1237**	**0.0899**		**2,871.3713**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0836	3.1863	0.8577	0.0115	0.3136	3.4400e-003	0.3170	0.0903	3.2900e-003	0.0936		1,235.3858	1,235.3858	0.0634		1,236.9717
Worker	0.5018	0.2462	4.0513	0.0164	2.2244	0.0110	2.2354	0.5899	0.0102	0.6001		1,633.7379	1,633.7379	0.0265		1,634.3996
Total	**0.5854**	**3.4324**	**4.9089**	**0.0278**	**2.5379**	**0.0145**	**2.5524**	**0.6802**	**0.0135**	**0.6936**		**2,869.1237**	**2,869.1237**	**0.0899**		**2,871.3713**

3.6 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528		2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	0.0116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1659**	**6.2343**	**13.0935**	**0.0230**		**0.2528**	**0.2528**		**0.2528**	**0.2528**		**2,154.2603**	**2,154.2603**	**0.1035**		**2,156.8468**

3.6 Paving - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0504	0.0247	0.4072	1.6500e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		164.1948	164.1948	2.6600e-003		164.2613
Total	**0.0504**	**0.0247**	**0.4072**	**1.6500e-003**	**0.2236**	**1.1100e-003**	**0.2247**	**0.0593**	**1.0200e-003**	**0.0603**		**164.1948**	**164.1948**	**2.6600e-003**		**164.2613**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528	0.0000	2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	0.0116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1659**	**6.2343**	**13.0935**	**0.0230**		**0.2528**	**0.2528**		**0.2528**	**0.2528**	**0.0000**	**2,154.2603**	**2,154.2603**	**0.1035**		**2,156.8468**

3.6 Paving - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0504	0.0247	0.4072	1.6500e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		164.1948	164.1948	2.6600e-003		164.2613
Total	**0.0504**	**0.0247**	**0.4072**	**1.6500e-003**	**0.2236**	**1.1100e-003**	**0.2247**	**0.0593**	**1.0200e-003**	**0.0603**		**164.1948**	**164.1948**	**2.6600e-003**		**164.2613**

3.7 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	109.1966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**109.3274**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1009	0.0495	0.8143	3.2900e-003	0.4471	2.2200e-003	0.4493	0.1186	2.0400e-003	0.1206		328.3895	328.3895	5.3200e-003		328.5225
Total	**0.1009**	**0.0495**	**0.8143**	**3.2900e-003**	**0.4471**	**2.2200e-003**	**0.4493**	**0.1186**	**2.0400e-003**	**0.1206**		**328.3895**	**328.3895**	**5.3200e-003**		**328.5225**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	109.1966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**109.3274**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1009	0.0495	0.8143	3.2900e-003	0.4471	2.2200e-003	0.4493	0.1186	2.0400e-003	0.1206		328.3895	328.3895	5.3200e-003		328.5225
Total	**0.1009**	**0.0495**	**0.8143**	**3.2900e-003**	**0.4471**	**2.2200e-003**	**0.4493**	**0.1186**	**2.0400e-003**	**0.1206**		**328.3895**	**328.3895**	**5.3200e-003**		**328.5225**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.5047	12.5166	27.6176	0.1263	12.4964	0.0760	12.5724	3.3419	0.0706	3.4125		12,950.3985	12,950.3985	0.5225		12,963.4604
Unmitigated	2.5047	12.5166	27.6176	0.1263	12.4964	0.0760	12.5724	3.3419	0.0706	3.4125		12,950.3985	12,950.3985	0.5225		12,963.4604

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	99.75	95.85	87.90	333,172	333,172
Condo/Townhouse	888.93	867.51	740.52	2,954,704	2,954,704
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	178.69	39.85	17.01	437,333	437,333
High Turnover (Sit Down Restaurant)	1,135.45	1,414.24	1177.33	1,609,858	1,609,858
Parking Lot	0.00	0.00	0.00		
Total	2,302.82	2,417.46	2,022.76	5,335,067	5,335,067

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Condo/Townhouse	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Enclosed Parking with Elevator	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
General Office Building	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
High Turnover (Sit Down Restaurant)	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760
Parking Lot	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Warner Center Phase 5 - South Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1434	1.2609	0.7848	7.8200e-003		0.0990	0.0990		0.0990	0.0990		1,563.7988	1,563.7988	0.0300	0.0287	1,573.0916
NaturalGas Unmitigated	0.1434	1.2609	0.7848	7.8200e-003		0.0990	0.0990		0.0990	0.0990		1,563.7988	1,563.7988	0.0300	0.0287	1,573.0916

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	451.158	4.8700e-003	0.0416	0.0177	2.7000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003		53.0774	53.0774	1.0200e-003	9.7000e-004	53.3928
Condo/Townhouse	6731.34	0.0726	0.6203	0.2640	3.9600e-003		0.0502	0.0502		0.0502	0.0502		791.9226	791.9226	0.0152	0.0145	796.6286
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	462.175	4.9800e-003	0.0453	0.0381	2.7000e-004		3.4400e-003	3.4400e-003		3.4400e-003	3.4400e-003		54.3736	54.3736	1.0400e-003	1.0000e-003	54.6967
High Turnover (Sit Down Restaurant)	5647.61	0.0609	0.5537	0.4651	3.3200e-003		0.0421	0.0421		0.0421	0.0421		664.4252	664.4252	0.0127	0.0122	668.3735
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1434**	**1.2609**	**0.7848**	**7.8200e-003**		**0.0990**	**0.0990**		**0.0990**	**0.0990**		**1,563.7988**	**1,563.7988**	**0.0300**	**0.0287**	**1,573.0916**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0.451158	4.8700e-003	0.0416	0.0177	2.7000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003		53.0774	53.0774	1.0200e-003	9.7000e-004	53.3928
Condo/Townhouse	6.73134	0.0726	0.6203	0.2640	3.9600e-003		0.0502	0.0502		0.0502	0.0502		791.9226	791.9226	0.0152	0.0145	796.6286
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.462175	4.9800e-003	0.0453	0.0381	2.7000e-004		3.4400e-003	3.4400e-003		3.4400e-003	3.4400e-003		54.3736	54.3736	1.0400e-003	1.0000e-003	54.6967
High Turnover (Sit Down Restaurant)	5.64761	0.0609	0.5537	0.4651	3.3200e-003		0.0421	0.0421		0.0421	0.0421		664.4252	664.4252	0.0127	0.0122	668.3735
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1434**	**1.2609**	**0.7848**	**7.8200e-003**		**0.0990**	**0.0990**		**0.0990**	**0.0990**		**1,563.7988**	**1,563.7988**	**0.0300**	**0.0287**	**1,573.0916**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	50.8714	3.6455	99.3047	0.2187		12.9103	12.9103		12.9103	12.9103	1,573.6423	3,049.0525	4,622.6947	4.7169	0.1068	4,772.4467
Unmitigated	50.8714	3.6455	99.3047	0.2187		12.9103	12.9103		12.9103	12.9103	1,573.6423	3,049.0525	4,622.6947	4.7169	0.1068	4,772.4467

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	44.0221	3.4857	85.4367	0.2180		12.8332	12.8332		12.8332	12.8332	1,573.6423	3,024.0000	4,597.6423	4.6929	0.1068	4,746.7936
Landscaping	0.4175	0.1598	13.8680	7.4000e-004		0.0770	0.0770		0.0770	0.0770		25.0525	25.0525	0.0240		25.6531
Total	**50.8714**	**3.6455**	**99.3047**	**0.2187**		**12.9103**	**12.9103**		**12.9103**	**12.9103**	**1,573.6423**	**3,049.0525**	**4,622.6947**	**4.7169**	**0.1068**	**4,772.4467**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	44.0221	3.4857	85.4367	0.2180		12.8332	12.8332		12.8332	12.8332	1,573.6423	3,024.0000	4,597.6423	4.6929	0.1068	4,746.7936
Landscaping	0.4175	0.1598	13.8680	7.4000e-004		0.0770	0.0770		0.0770	0.0770		25.0525	25.0525	0.0240		25.6531
Total	**50.8714**	**3.6455**	**99.3047**	**0.2187**		**12.9103**	**12.9103**		**12.9103**	**12.9103**	**1,573.6423**	**3,049.0525**	**4,622.6947**	**4.7169**	**0.1068**	**4,772.4467**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 6

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	3.63	161,200.00	0
Parking Lot	3.00	Space	0.03	1,200.00	0
High Turnover (Sit Down Restaurant)	3.06	1000sqft	0.01	3,060.00	0
Apartments Mid Rise	234.00	Dwelling Unit	0.97	251,927.00	669
Strip Mall	2.04	1000sqft	0.01	2,040.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2031
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND. See SWAPE comment on parking.

Demolition - Consistent with the IS/MND's model.

Grading - Consistent with the IS/MND's model.

Architectural Coating - Consistent with the IS/MND

Woodstoves - Consistent with the IS/MND.

Area Coating - Consistent with the IS/MND.

Water And Wastewater - Consistent with the IS/MND.

Solid Waste - Consistent with the IS/MND.

Trips and VMT - Consistent with the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	9,744.00	10,368.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	170,051.00	183,823.00
tblArchitecturalCoating	ConstArea_Residential_Interior	510,152.00	551,470.00
tblAreaCoating	Area_Parking	9744	10368
tblAreaCoating	Area_Residential_Exterior	170051	183823
tblAreaCoating	Area_Residential_Interior	510152	551470
tblFireplaces	NumberGas	198.90	215.90
tblFireplaces	NumberNoFireplace	23.40	25.40
tblFireplaces	NumberWood	11.70	12.70
tblGrading	MaterialExported	0.00	48,740.00
tblLandUse	LandUseSquareFeet	234,000.00	251,927.00
tblLandUse	LotAcreage	0.07	0.01
tblLandUse	LotAcreage	6.16	0.97
tblLandUse	LotAcreage	0.05	0.01
tblSolidWaste	SolidWasteGenerationRate	107.64	116.84
tblTripsAndVMT	HaulingTripNumber	327.00	830.00
tblTripsAndVMT	HaulingTripNumber	4,819.00	9,748.00
tblWater	IndoorWaterUseRate	15,246,042.00	16,549,122.51
tblWater	OutdoorWaterUseRate	9,611,635.17	10,433,142.45
tblWoodstoves	NumberCatalytic	11.70	12.70
tblWoodstoves	NumberNoncatalytic	11.70	12.70

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.2098	1.8065	2.2125	9.0700e-003	0.4232	0.0194	0.4426	0.1291	0.0192	0.1483	0.0000	843.5766	843.5766	0.0428	0.0000	844.6455
2031	0.9901	0.5241	0.9867	2.7000e-003	0.1232	8.9700e-003	0.1322	0.0330	8.9300e-003	0.0420	0.0000	239.8888	239.8888	8.6000e-003	0.0000	240.1037
Maximum	**0.9901**	**1.8065**	**2.2125**	**9.0700e-003**	**0.4232**	**0.0194**	**0.4426**	**0.1291**	**0.0192**	**0.1483**	**0.0000**	**843.5766**	**843.5766**	**0.0428**	**0.0000**	**844.6455**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.2098	1.8065	2.2125	9.0700e-003	0.4232	0.0194	0.4426	0.1291	0.0192	0.1483	0.0000	843.5763	843.5763	0.0428	0.0000	844.6452
2031	0.9901	0.5241	0.9867	2.7000e-003	0.1232	8.9700e-003	0.1322	0.0330	8.9300e-003	0.0420	0.0000	239.8886	239.8886	8.6000e-003	0.0000	240.1036
Maximum	**0.9901**	**1.8065**	**2.2125**	**9.0700e-003**	**0.4232**	**0.0194**	**0.4426**	**0.1291**	**0.0192**	**0.1483**	**0.0000**	**843.5763**	**843.5763**	**0.0428**	**0.0000**	**844.6452**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-18-2030**	**7-17-2030**	1.2328	1.2328
2	**7-18-2030**	**10-17-2030**	0.4478	0.4478
3	**10-18-2030**	**1-17-2031**	0.4497	0.4497
4	**1-18-2031**	**4-17-2031**	0.4369	0.4369
5	**4-18-2031**	**7-17-2031**	1.0222	1.0222
		Highest	1.2328	1.2328

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9337	0.0937	4.0267	4.2500e-003		0.2559	0.2559		0.2559	0.2559	26.9796	55.7977	82.7773	0.0842	1.8300e-003	85.4290
Energy	0.0177	0.1532	0.0796	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	1,320.1758	1,320.1758	0.0304	8.8000e-003	1,323.5593
Mobile	0.3492	1.9719	4.4521	0.0215	2.2427	0.0127	2.2554	0.6007	0.0118	0.6125	0.0000	2,000.1269	2,000.1269	0.0801	0.0000	2,002.1282
Waste						0.0000	0.0000		0.0000	0.0000	31.5428	0.0000	31.5428	1.8641	0.0000	78.1459
Water						0.0000	0.0000		0.0000	0.0000	5.5929	193.3479	198.9407	0.5790	0.0145	217.7395
Total	**2.3005**	**2.2187**	**8.5583**	**0.0267**	**2.2427**	**0.2809**	**2.5235**	**0.6007**	**0.2800**	**0.8806**	**64.1153**	**3,569.4482**	**3,633.5635**	**2.6378**	**0.0251**	**3,707.0019**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9337	0.0937	4.0267	4.2500e-003		0.2559	0.2559		0.2559	0.2559	26.9796	55.7977	82.7773	0.0842	1.8300e-003	85.4290
Energy	0.0177	0.1532	0.0796	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	1,320.1758	1,320.1758	0.0304	8.8000e-003	1,323.5593
Mobile	0.3492	1.9719	4.4521	0.0215	2.2427	0.0127	2.2554	0.6007	0.0118	0.6125	0.0000	2,000.1269	2,000.1269	0.0801	0.0000	2,002.1282
Waste						0.0000	0.0000		0.0000	0.0000	31.5428	0.0000	31.5428	1.8641	0.0000	78.1459
Water						0.0000	0.0000		0.0000	0.0000	5.5929	193.3479	198.9407	0.5790	0.0145	217.7395
Total	**2.3005**	**2.2187**	**8.5583**	**0.0267**	**2.2427**	**0.2809**	**2.5235**	**0.6007**	**0.2800**	**0.8806**	**64.1153**	**3,569.4482**	**3,633.5635**	**2.6378**	**0.0251**	**3,707.0019**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/18/2030	5/15/2030	5	20	
2	Site Preparation	Site Preparation	5/16/2030	5/22/2030	5	5	
3	Grading	Grading	5/23/2030	6/3/2030	5	8	
4	Building Construction	Building Construction	6/4/2030	4/21/2031	5	230	
5	Paving	Paving	4/22/2031	5/15/2031	5	18	
6	Architectural Coating	Architectural Coating	5/16/2031	6/10/2031	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 3.66

Residential Indoor: 551,470; Residential Outdoor: 183,823; Non-Residential Indoor: 7,650; Non-Residential Outdoor: 2,550; Striped Parking Area: 10,368 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Warner Center Phase 6 - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	830.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	9,748.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	239.00	52.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0354	0.0000	0.0354	5.3700e-003	0.0000	5.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.0978	0.1892	4.6000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	39.7218	39.7218	1.6800e-003	0.0000	39.7637
Total	**0.0208**	**0.0978**	**0.1892**	**4.6000e-004**	**0.0354**	**3.5100e-003**	**0.0390**	**5.3700e-003**	**3.5100e-003**	**8.8800e-003**	**0.0000**	**39.7218**	**39.7218**	**1.6800e-003**	**0.0000**	**39.7637**

3.2 Demolition - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9200e-003	0.0597	0.0228	2.9000e-004	7.1300e-003	1.1000e-004	7.2400e-003	1.9600e-003	1.0000e-004	2.0600e-003	0.0000	28.5865	28.5865	1.9800e-003	0.0000	28.6361
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.1000e-004	2.8100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0638	1.0638	2.0000e-005	0.0000	1.0642
Total	**2.3000e-003**	**0.0600**	**0.0256**	**3.0000e-004**	**8.7800e-003**	**1.2000e-004**	**8.8900e-003**	**2.4000e-003**	**1.1000e-004**	**2.5000e-003**	**0.0000**	**29.6502**	**29.6502**	**2.0000e-003**	**0.0000**	**29.7003**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0354	0.0000	0.0354	5.3700e-003	0.0000	5.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.0978	0.1892	4.6000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	39.7218	39.7218	1.6800e-003	0.0000	39.7637
Total	**0.0208**	**0.0978**	**0.1892**	**4.6000e-004**	**0.0354**	**3.5100e-003**	**0.0390**	**5.3700e-003**	**3.5100e-003**	**8.8800e-003**	**0.0000**	**39.7218**	**39.7218**	**1.6800e-003**	**0.0000**	**39.7637**

3.2 Demolition - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9200e-003	0.0597	0.0228	2.9000e-004	7.1300e-003	1.1000e-004	7.2400e-003	1.9600e-003	1.0000e-004	2.0600e-003	0.0000	28.5865	28.5865	1.9800e-003	0.0000	28.6361
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.1000e-004	2.8100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0638	1.0638	2.0000e-005	0.0000	1.0642
Total	**2.3000e-003**	**0.0600**	**0.0256**	**3.0000e-004**	**8.7800e-003**	**1.2000e-004**	**8.8900e-003**	**2.4000e-003**	**1.1000e-004**	**2.5000e-003**	**0.0000**	**29.6502**	**29.6502**	**2.0000e-003**	**0.0000**	**29.7003**

3.3 Site Preparation - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-003	0.0342	0.0407	1.2000e-004		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	10.0012	10.0012	4.9000e-004	0.0000	10.0135
Total	**6.1000e-003**	**0.0342**	**0.0407**	**1.2000e-004**	**0.0452**	**1.0900e-003**	**0.0463**	**0.0248**	**1.0900e-003**	**0.0259**	**0.0000**	**10.0012**	**10.0012**	**4.9000e-004**	**0.0000**	**10.0135**

3.3 Site Preparation - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	6.0000e-005	8.4000e-004	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3191	0.3191	1.0000e-005	0.0000	0.3193
Total	**1.1000e-004**	**6.0000e-005**	**8.4000e-004**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3191**	**0.3191**	**1.0000e-005**	**0.0000**	**0.3193**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-003	0.0342	0.0407	1.2000e-004		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	10.0011	10.0011	4.9000e-004	0.0000	10.0135
Total	**6.1000e-003**	**0.0342**	**0.0407**	**1.2000e-004**	**0.0452**	**1.0900e-003**	**0.0463**	**0.0248**	**1.0900e-003**	**0.0259**	**0.0000**	**10.0011**	**10.0011**	**4.9000e-004**	**0.0000**	**10.0135**

3.3 Site Preparation - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	6.0000e-005	8.4000e-004	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3191	0.3191	1.0000e-005	0.0000	0.3193
Total	**1.1000e-004**	**6.0000e-005**	**8.4000e-004**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3191**	**0.3191**	**1.0000e-005**	**0.0000**	**0.3193**

3.4 Grading - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0310	0.0578	1.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	12.4819	12.4819	5.2000e-004	0.0000	12.4949
Total	**6.4700e-003**	**0.0310**	**0.0578**	**1.5000e-004**	**0.0262**	**9.4000e-004**	**0.0272**	**0.0135**	**9.4000e-004**	**0.0144**	**0.0000**	**12.4819**	**12.4819**	**5.2000e-004**	**0.0000**	**12.4949**

3.4 Grading - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0226	0.7016	0.2673	3.3800e-003	0.0838	1.2700e-003	0.0850	0.0230	1.2100e-003	0.0242	0.0000	335.7360	335.7360	0.0233	0.0000	336.3187
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	8.0000e-005	1.1200e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4255	0.4255	1.0000e-005	0.0000	0.4257
Total	**0.0227**	**0.7017**	**0.2684**	**3.3800e-003**	**0.0844**	**1.2700e-003**	**0.0857**	**0.0232**	**1.2100e-003**	**0.0244**	**0.0000**	**336.1615**	**336.1615**	**0.0233**	**0.0000**	**336.7444**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0310	0.0578	1.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	12.4818	12.4818	5.2000e-004	0.0000	12.4949
Total	**6.4700e-003**	**0.0310**	**0.0578**	**1.5000e-004**	**0.0262**	**9.4000e-004**	**0.0272**	**0.0135**	**9.4000e-004**	**0.0144**	**0.0000**	**12.4818**	**12.4818**	**5.2000e-004**	**0.0000**	**12.4949**

3.4 Grading - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0226	0.7016	0.2673	3.3800e-003	0.0838	1.2700e-003	0.0850	0.0230	1.2100e-003	0.0242	0.0000	335.7360	335.7360	0.0233	0.0000	336.3187
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	8.0000e-005	1.1200e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4255	0.4255	1.0000e-005	0.0000	0.4257
Total	**0.0227**	**0.7017**	**0.2684**	**3.3800e-003**	**0.0844**	**1.2700e-003**	**0.0857**	**0.0232**	**1.2100e-003**	**0.0244**	**0.0000**	**336.1615**	**336.1615**	**0.0233**	**0.0000**	**336.7444**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0988	0.5991	1.2199	2.3400e-003		0.0112	0.0112		0.0112	0.0112	0.0000	198.4601	198.4601	7.9600e-003	0.0000	198.6591
Total	**0.0988**	**0.5991**	**1.2199**	**2.3400e-003**		**0.0112**	**0.0112**		**0.0112**	**0.0112**	**0.0000**	**198.4601**	**198.4601**	**7.9600e-003**	**0.0000**	**198.6591**

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8400e-003	0.2576	0.0720	9.1000e-004	0.0247	2.8000e-004	0.0250	7.1400e-003	2.7000e-004	7.4100e-003	0.0000	88.8118	88.8118	4.7200e-003	0.0000	88.9299
Worker	0.0456	0.0252	0.3381	1.4100e-003	0.1980	1.0000e-003	0.1990	0.0526	9.2000e-004	0.0535	0.0000	127.9691	127.9691	2.0600e-003	0.0000	128.0205
Total	**0.0525**	**0.2828**	**0.4101**	**2.3200e-003**	**0.2227**	**1.2800e-003**	**0.2240**	**0.0597**	**1.1900e-003**	**0.0609**	**0.0000**	**216.7809**	**216.7809**	**6.7800e-003**	**0.0000**	**216.9504**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0988	0.5991	1.2199	2.3400e-003		0.0112	0.0112		0.0112	0.0112	0.0000	198.4598	198.4598	7.9600e-003	0.0000	198.6589
Total	**0.0988**	**0.5991**	**1.2199**	**2.3400e-003**		**0.0112**	**0.0112**		**0.0112**	**0.0112**	**0.0000**	**198.4598**	**198.4598**	**7.9600e-003**	**0.0000**	**198.6589**

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8400e-003	0.2576	0.0720	9.1000e-004	0.0247	2.8000e-004	0.0250	7.1400e-003	2.7000e-004	7.4100e-003	0.0000	88.8118	88.8118	4.7200e-003	0.0000	88.9299
Worker	0.0456	0.0252	0.3381	1.4100e-003	0.1980	1.0000e-003	0.1990	0.0526	9.2000e-004	0.0535	0.0000	127.9691	127.9691	2.0600e-003	0.0000	128.0205
Total	**0.0525**	**0.2828**	**0.4101**	**2.3200e-003**	**0.2227**	**1.2800e-003**	**0.2240**	**0.0597**	**1.1900e-003**	**0.0609**	**0.0000**	**216.7809**	**216.7809**	**6.7800e-003**	**0.0000**	**216.9504**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0517	0.3134	0.6382	1.2200e-003		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	103.8301	103.8301	4.1700e-003	0.0000	103.9342
Total	**0.0517**	**0.3134**	**0.6382**	**1.2200e-003**		**5.8500e-003**	**5.8500e-003**		**5.8500e-003**	**5.8500e-003**	**0.0000**	**103.8301**	**103.8301**	**4.1700e-003**	**0.0000**	**103.9342**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5600e-003	0.1341	0.0375	4.7000e-004	0.0129	1.4000e-004	0.0131	3.7300e-003	1.4000e-004	3.8700e-003	0.0000	46.3945	46.3945	2.4500e-003	0.0000	46.4556
Worker	0.0221	0.0120	0.1661	7.2000e-004	0.1036	4.9000e-004	0.1041	0.0275	4.5000e-004	0.0280	0.0000	65.5294	65.5294	9.9000e-004	0.0000	65.5540
Total	**0.0257**	**0.1461**	**0.2037**	**1.1900e-003**	**0.1165**	**6.3000e-004**	**0.1172**	**0.0312**	**5.9000e-004**	**0.0318**	**0.0000**	**111.9238**	**111.9238**	**3.4400e-003**	**0.0000**	**112.0096**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0517	0.3134	0.6382	1.2200e-003		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	103.8300	103.8300	4.1700e-003	0.0000	103.9341
Total	**0.0517**	**0.3134**	**0.6382**	**1.2200e-003**		**5.8500e-003**	**5.8500e-003**		**5.8500e-003**	**5.8500e-003**	**0.0000**	**103.8300**	**103.8300**	**4.1700e-003**	**0.0000**	**103.9341**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5600e-003	0.1341	0.0375	4.7000e-004	0.0129	1.4000e-004	0.0131	3.7300e-003	1.4000e-004	3.8700e-003	0.0000	46.3945	46.3945	2.4500e-003	0.0000	46.4556
Worker	0.0221	0.0120	0.1661	7.2000e-004	0.1036	4.9000e-004	0.1041	0.0275	4.5000e-004	0.0280	0.0000	65.5294	65.5294	9.9000e-004	0.0000	65.5540
Total	**0.0257**	**0.1461**	**0.2037**	**1.1900e-003**	**0.1165**	**6.3000e-004**	**0.1172**	**0.0312**	**5.9000e-004**	**0.0318**	**0.0000**	**111.9238**	**111.9238**	**3.4400e-003**	**0.0000**	**112.0096**

3.6 Paving - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.0561	0.1178	2.1000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	17.5888	17.5888	8.4000e-004	0.0000	17.6099
Paving	4.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0104**	**0.0561**	**0.1178**	**2.1000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**17.5888**	**17.5888**	**8.4000e-004**	**0.0000**	**17.6099**

3.6 Paving - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.3000e-004	3.1700e-003	1.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.2494	1.2494	2.0000e-005	0.0000	1.2499
Total	**4.2000e-004**	**2.3000e-004**	**3.1700e-003**	**1.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9800e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.2494**	**1.2494**	**2.0000e-005**	**0.0000**	**1.2499**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.0561	0.1178	2.1000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	17.5888	17.5888	8.4000e-004	0.0000	17.6099
Paving	4.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0104**	**0.0561**	**0.1178**	**2.1000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**17.5888**	**17.5888**	**8.4000e-004**	**0.0000**	**17.6099**

3.6 Paving - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.3000e-004	3.1700e-003	1.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.2494	1.2494	2.0000e-005	0.0000	1.2499
Total	**4.2000e-004**	**2.3000e-004**	**3.1700e-003**	**1.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9800e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.2494**	**1.2494**	**2.0000e-005**	**0.0000**	**1.2499**

3.7 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1800e-003	7.7100e-003	0.0162	3.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.2979	2.2979	9.0000e-005	0.0000	2.3003
Total	**0.9009**	**7.7100e-003**	**0.0162**	**3.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**2.2979**	**2.2979**	**9.0000e-005**	**0.0000**	**2.3003**

3.7 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	5.5000e-004	7.6000e-003	3.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	2.9986	2.9986	5.0000e-005	0.0000	2.9998
Total	**1.0100e-003**	**5.5000e-004**	**7.6000e-003**	**3.0000e-005**	**4.7400e-003**	**2.0000e-005**	**4.7600e-003**	**1.2600e-003**	**2.0000e-005**	**1.2800e-003**	**0.0000**	**2.9986**	**2.9986**	**5.0000e-005**	**0.0000**	**2.9998**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1800e-003	7.7100e-003	0.0162	3.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.2979	2.2979	9.0000e-005	0.0000	2.3003
Total	**0.9009**	**7.7100e-003**	**0.0162**	**3.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**2.2979**	**2.2979**	**9.0000e-005**	**0.0000**	**2.3003**

3.7 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	5.5000e-004	7.6000e-003	3.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	2.9986	2.9986	5.0000e-005	0.0000	2.9998
Total	**1.0100e-003**	**5.5000e-004**	**7.6000e-003**	**3.0000e-005**	**4.7400e-003**	**2.0000e-005**	**4.7600e-003**	**1.2600e-003**	**2.0000e-005**	**1.2800e-003**	**0.0000**	**2.9986**	**2.9986**	**5.0000e-005**	**0.0000**	**2.9998**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3492	1.9719	4.4521	0.0215	2.2427	0.0127	2.2554	0.6007	0.0118	0.6125	0.0000	2,000.1269	2,000.1269	0.0801	0.0000	2,002.1282
Unmitigated	0.3492	1.9719	4.4521	0.0215	2.2427	0.0127	2.2554	0.6007	0.0118	0.6125	0.0000	2,000.1269	2,000.1269	0.0801	0.0000	2,002.1282

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,556.10	1,495.26	1371.24	5,197,488	5,197,488
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	389.08	484.61	403.43	551,642	551,642
Parking Lot	0.00	0.00	0.00		
Strip Mall	90.41	85.76	41.68	157,508	157,508
Total	2,035.59	2,065.63	1,816.35	5,906,639	5,906,639

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Enclosed Parking with Elevator	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
High Turnover (Sit Down Restaurant)	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Parking Lot	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Strip Mall	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,145.2298	1,145.2298	0.0271	5.6000e-003	1,147.5736
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,145.2298	1,145.2298	0.0271	5.6000e-003	1,147.5736
NaturalGas Mitigated	0.0177	0.1532	0.0796	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9461	174.9461	3.3500e-003	3.2100e-003	175.9857
NaturalGas Unmitigated	0.0177	0.1532	0.0796	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.9461	174.9461	3.3500e-003	3.2100e-003	175.9857

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.56889e+006	0.0139	0.1184	0.0504	7.6000e-004		9.5700e-003	9.5700e-003		9.5700e-003	9.5700e-003	0.0000	137.0860	137.0860	2.6300e-003	2.5100e-003	137.9006
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	706126	3.8100e-003	0.0346	0.0291	2.1000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	37.6816	37.6816	7.2000e-004	6.9000e-004	37.9055
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	3345.6	2.0000e-005	1.6000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1785	0.1785	0.0000	0.0000	0.1796
Total		**0.0177**	**0.1531**	**0.0796**	**9.7000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**	**0.0000**	**174.9461**	**174.9461**	**3.3500e-003**	**3.2000e-003**	**175.9857**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.56889e+006	0.0139	0.1184	0.0504	7.6000e-004		9.5700e-003	9.5700e-003		9.5700e-003	9.5700e-003	0.0000	137.0860	137.0860	2.6300e-003	2.5100e-003	137.9006
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	706126	3.8100e-003	0.0346	0.0291	2.1000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	37.6816	37.6816	7.2000e-004	6.9000e-004	37.9055
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	3345.6	2.0000e-005	1.6000e-004	1.4000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1785	0.1785	0.0000	0.0000	0.1796
Total		**0.0177**	**0.1531**	**0.0796**	**9.7000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**	**0.0000**	**174.9461**	**174.9461**	**3.3500e-003**	**3.2000e-003**	**175.9857**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	948549	528.3055	0.0125	2.5800e-003	529.3868
Enclosed Parking with Elevator	944632	526.1237	0.0124	2.5700e-003	527.2005
High Turnover (Sit Down Restaurant)	135068	75.2279	1.7800e-003	3.7000e-004	75.3819
Parking Lot	420	0.2339	1.0000e-005	0.0000	0.2344
Strip Mall	27540	15.3387	3.6000e-004	7.0000e-005	15.3701
Total		**1,145.2298**	**0.0271**	**5.5900e-003**	**1,147.5736**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	948549	528.3055	0.0125	2.5800e-003	529.3868
Enclosed Parking with Elevator	944632	526.1237	0.0124	2.5700e-003	527.2005
High Turnover (Sit Down Restaurant)	135068	75.2279	1.7800e-003	3.7000e-004	75.3819
Parking Lot	420	0.2339	1.0000e-005	0.0000	0.2344
Strip Mall	27540	15.3387	3.6000e-004	7.0000e-005	15.3701
Total		**1,145.2298**	**0.0271**	**5.5900e-003**	**1,147.5736**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9337	0.0937	4.0267	4.2500e-003		0.2559	0.2559		0.2559	0.2559	26.9796	55.7977	82.7773	0.0842	1.8300e-003	85.4290
Unmitigated	1.9337	0.0937	4.0267	4.2500e-003		0.2559	0.2559		0.2559	0.2559	26.9796	55.7977	82.7773	0.0842	1.8300e-003	85.4290

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0900					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9393					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.8320	0.0659	1.6147	4.1200e-003		0.2425	0.2425		0.2425	0.2425	26.9796	51.8456	78.8253	0.0805	1.8300e-003	81.3824
Landscaping	0.0725	0.0278	2.4120	1.3000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	3.9521	3.9521	3.7800e-003	0.0000	4.0466
Total	**1.9337**	**0.0937**	**4.0267**	**4.2500e-003**		**0.2559**	**0.2559**		**0.2559**	**0.2559**	**26.9796**	**55.7977**	**82.7773**	**0.0842**	**1.8300e-003**	**85.4290**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0900					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9393					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.8320	0.0659	1.6147	4.1200e-003		0.2425	0.2425		0.2425	0.2425	26.9796	51.8456	78.8253	0.0805	1.8300e-003	81.3824
Landscaping	0.0725	0.0278	2.4120	1.3000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	3.9521	3.9521	3.7800e-003	0.0000	4.0466
Total	**1.9337**	**0.0937**	**4.0267**	**4.2500e-003**		**0.2559**	**0.2559**		**0.2559**	**0.2559**	**26.9796**	**55.7977**	**82.7773**	**0.0842**	**1.8300e-003**	**85.4290**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	198.9407	0.5790	0.0145	217.7395
Unmitigated	198.9407	0.5790	0.0145	217.7395

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	16.5491 / 10.4331	189.8264	0.5436	0.0136	207.4799
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0.928813 / 0.0592859	7.3975	0.0304	7.5000e-004	8.3816
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.151108 / 0.0926146	1.7169	4.9600e-003	1.2000e-004	1.8781
Total		**198.9408**	**0.5790**	**0.0145**	**217.7395**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	16.5491 / 10.4331	189.8264	0.5436	0.0136	207.4799
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0.928813 / 0.0592859	7.3975	0.0304	7.5000e-004	8.3816
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.151108 / 0.0926146	1.7169	4.9600e-003	1.2000e-004	1.8781
Total		**198.9408**	**0.5790**	**0.0145**	**217.7395**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.5428	1.8641	0.0000	78.1459
Unmitigated	31.5428	1.8641	0.0000	78.1459

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	116.84	23.7175	1.4017	0.0000	58.7590
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	36.41	7.3909	0.4368	0.0000	18.3106
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	2.14	0.4344	0.0257	0.0000	1.0762
Total		**31.5428**	**1.8641**	**0.0000**	**78.1459**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	116.84	23.7175	1.4017	0.0000	58.7590
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	36.41	7.3909	0.4368	0.0000	18.3106
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	2.14	0.4344	0.0257	0.0000	1.0762
Total		**31.5428**	**1.8641**	**0.0000**	**78.1459**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 6

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	3.63	161,200.00	0
Parking Lot	3.00	Space	0.03	1,200.00	0
High Turnover (Sit Down Restaurant)	3.06	1000sqft	0.01	3,060.00	0
Apartments Mid Rise	234.00	Dwelling Unit	0.97	251,927.00	669
Strip Mall	2.04	1000sqft	0.01	2,040.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2031
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND. See SWAPE comment on parking.

Demolition - Consistent with the IS/MND's model.

Grading - Consistent with the IS/MND's model.

Architectural Coating - Consistent with the IS/MND

Woodstoves - Consistent with the IS/MND.

Area Coating - Consistent with the IS/MND.

Water And Wastewater - Consistent with the IS/MND.

Solid Waste - Consistent with the IS/MND.

Trips and VMT - Consistent with the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	9,744.00	10,368.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	170,051.00	183,823.00
tblArchitecturalCoating	ConstArea_Residential_Interior	510,152.00	551,470.00
tblAreaCoating	Area_Parking	9744	10368
tblAreaCoating	Area_Residential_Exterior	170051	183823
tblAreaCoating	Area_Residential_Interior	510152	551470
tblFireplaces	NumberGas	198.90	215.90
tblFireplaces	NumberNoFireplace	23.40	25.40
tblFireplaces	NumberWood	11.70	12.70
tblGrading	MaterialExported	0.00	48,740.00
tblLandUse	LandUseSquareFeet	234,000.00	251,927.00
tblLandUse	LotAcreage	0.07	0.01
tblLandUse	LotAcreage	6.16	0.97
tblLandUse	LotAcreage	0.05	0.01
tblSolidWaste	SolidWasteGenerationRate	107.64	116.84
tblTripsAndVMT	HaulingTripNumber	327.00	830.00
tblTripsAndVMT	HaulingTripNumber	4,819.00	9,748.00
tblWater	IndoorWaterUseRate	15,246,042.00	16,549,122.51
tblWater	OutdoorWaterUseRate	9,611,635.17	10,433,142.45
tblWoodstoves	NumberCatalytic	11.70	12.70
tblWoodstoves	NumberNoncatalytic	11.70	12.70

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	7.2407	179.2204	80.3652	0.8876	28.0046	0.5500	28.5547	9.9840	0.5363	10.4216	0.0000	96,733.8432	96,733.8432	6.4997	0.0000	96,896.3363
2031	100.2079	11.5688	21.6413	0.0624	3.0042	0.2538	3.1684	0.8043	0.2538	0.9673	0.0000	6,127.3535	6,127.3535	0.2121	0.0000	6,132.6554
Maximum	**100.2079**	**179.2204**	**80.3652**	**0.8876**	**28.0046**	**0.5500**	**28.5547**	**9.9840**	**0.5363**	**10.4216**	**0.0000**	**96,733.8432**	**96,733.8432**	**6.4997**	**0.0000**	**96,896.3363**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	7.2407	179.2204	80.3652	0.8876	28.0046	0.5500	28.5547	9.9840	0.5363	10.4216	0.0000	96,733.8432	96,733.8432	6.4997	0.0000	96,896.3363
2031	100.2079	11.5688	21.6413	0.0624	3.0042	0.2538	3.1684	0.8043	0.2538	0.9673	0.0000	6,127.3535	6,127.3535	0.2121	0.0000	6,132.6554
Maximum	**100.2079**	**179.2204**	**80.3652**	**0.8876**	**28.0046**	**0.5500**	**28.5547**	**9.9840**	**0.5363**	**10.4216**	**0.0000**	**96,733.8432**	**96,733.8432**	**6.4997**	**0.0000**	**96,896.3363**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	72.7765	5.4924	148.4682	0.3306		19.5098	19.5098		19.5098	19.5098	2,379.1973	4,606.8512	6,986.0485	7.1286	0.1615	7,212.3848
Energy	0.0969	0.8392	0.4361	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6850	1,056.6850	0.0203	0.0194	1,062.9644
Mobile	2.1714	11.1284	26.7358	0.1279	13.0670	0.0730	13.1400	3.4944	0.0678	3.5622		13,104.4671	13,104.4671	0.5071		13,117.1446
Total	**75.0448**	**17.4600**	**175.6401**	**0.4637**	**13.0670**	**19.6498**	**32.7167**	**3.4944**	**19.6446**	**23.1390**	**2,379.1973**	**18,768.0033**	**21,147.2006**	**7.6559**	**0.1809**	**21,392.4938**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	72.7765	5.4924	148.4682	0.3306		19.5098	19.5098		19.5098	19.5098	2,379.1973	4,606.8512	6,986.0485	7.1286	0.1615	7,212.3848
Energy	0.0969	0.8392	0.4361	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6850	1,056.6850	0.0203	0.0194	1,062.9644
Mobile	2.1714	11.1284	26.7358	0.1279	13.0670	0.0730	13.1400	3.4944	0.0678	3.5622		13,104.4671	13,104.4671	0.5071		13,117.1446
Total	**75.0448**	**17.4600**	**175.6401**	**0.4637**	**13.0670**	**19.6498**	**32.7167**	**3.4944**	**19.6446**	**23.1390**	**2,379.1973**	**18,768.0033**	**21,147.2006**	**7.6559**	**0.1809**	**21,392.4938**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/18/2030	5/15/2030	5	20	
2	Site Preparation	Site Preparation	5/16/2030	5/22/2030	5	5	
3	Grading	Grading	5/23/2030	6/3/2030	5	8	
4	Building Construction	Building Construction	6/4/2030	4/21/2031	5	230	
5	Paving	Paving	4/22/2031	5/15/2031	5	18	
6	Architectural Coating	Architectural Coating	5/16/2031	6/10/2031	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 3.66

Residential Indoor: 551,470; Residential Outdoor: 183,823; Non-Residential Indoor: 7,650; Non-Residential Outdoor: 2,550; Striped Parking Area: 10,368 (Architectural Coating – sqft)

OffRoad Equipment

Warner Center Phase 6 - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	830.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	9,748.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	239.00	52.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5437	0.0000	3.5437	0.5365	0.0000	0.5365			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**3.5437**	**0.3511**	**3.8948**	**0.5365**	**0.3511**	**0.8876**		**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1902	5.8394	2.2345	0.0290	0.7249	0.0107	0.7357	0.1986	0.0103	0.2089		3,173.2421	3,173.2421	0.2164		3,178.6524
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0186	0.3054	1.2300e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		123.1461	123.1461	2.0000e-003		123.1960
Total	**0.2281**	**5.8579**	**2.5399**	**0.0302**	**0.8926**	**0.0116**	**0.9042**	**0.2431**	**0.0110**	**0.2541**		**3,296.3882**	**3,296.3882**	**0.2184**		**3,301.8483**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5437	0.0000	3.5437	0.5365	0.0000	0.5365			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**3.5437**	**0.3511**	**3.8948**	**0.5365**	**0.3511**	**0.8876**	**0.0000**	**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1902	5.8394	2.2345	0.0290	0.7249	0.0107	0.7357	0.1986	0.0103	0.2089		3,173.2421	3,173.2421	0.2164		3,178.6524
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0186	0.3054	1.2300e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		123.1461	123.1461	2.0000e-003		123.1960
Total	**0.2281**	**5.8579**	**2.5399**	**0.0302**	**0.8926**	**0.0116**	**0.9042**	**0.2431**	**0.0110**	**0.2541**		**3,296.3882**	**3,296.3882**	**0.2184**		**3,301.8483**

3.3 Site Preparation - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0454	0.0223	0.3664	1.4800e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		147.7753	147.7753	2.3900e-003		147.8351
Total	**0.0454**	**0.0223**	**0.3664**	**1.4800e-003**	**0.2012**	**1.0000e-003**	**0.2022**	**0.0534**	**9.2000e-004**	**0.0543**		**147.7753**	**147.7753**	**2.3900e-003**		**147.8351**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0454	0.0223	0.3664	1.4800e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		147.7753	147.7753	2.3900e-003		147.8351
Total	**0.0454**	**0.0223**	**0.3664**	**1.4800e-003**	**0.2012**	**1.0000e-003**	**0.2022**	**0.0534**	**9.2000e-004**	**0.0543**		**147.7753**	**147.7753**	**2.3900e-003**		**147.8351**

3.4 Grading - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.7201	3,439.7201	0.1437		3,443.3117
Total	**1.6179**	**7.7501**	**14.4518**	**0.0363**	**6.5523**	**0.2340**	**6.7864**	**3.3675**	**0.2340**	**3.6015**		**3,439.7201**	**3,439.7201**	**0.1437**		**3,443.3117**

3.4 Grading - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.5850	171.4517	65.6080	0.8501	21.2846	0.3152	21.5998	5.8324	0.3015	6.1340		93,170.9770	93,170.9770	6.3541		93,329.8287
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0186	0.3054	1.2300e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		123.1461	123.1461	2.0000e-003		123.1960
Total	**5.6228**	**171.4703**	**65.9134**	**0.8513**	**21.4523**	**0.3160**	**21.7683**	**5.8769**	**0.3023**	**6.1792**		**93,294.1231**	**93,294.1231**	**6.3561**		**93,453.0246**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.7201	3,439.7201	0.1437		3,443.3117
Total	**1.6179**	**7.7501**	**14.4518**	**0.0363**	**6.5523**	**0.2340**	**6.7864**	**3.3675**	**0.2340**	**3.6015**	**0.0000**	**3,439.7201**	**3,439.7201**	**0.1437**		**3,443.3117**

3.4 Grading - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.5850	171.4517	65.6080	0.8501	21.2846	0.3152	21.5998	5.8324	0.3015	6.1340		93,170.9770	93,170.9770	6.3541		93,329.8287
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0186	0.3054	1.2300e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		123.1461	123.1461	2.0000e-003		123.1960
Total	**5.6228**	**171.4703**	**65.9134**	**0.8513**	**21.4523**	**0.3160**	**21.7683**	**5.8769**	**0.3023**	**6.1792**		**93,294.1231**	**93,294.1231**	**6.3561**		**93,453.0246**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0887	3.3813	0.9102	0.0122	0.3328	3.6500e-003	0.3364	0.0958	3.4900e-003	0.0993		1,311.0216	1,311.0216	0.0673		1,312.7047
Worker	0.6027	0.2956	4.8656	0.0197	2.6715	0.0133	2.6847	0.7085	0.0122	0.7207		1,962.1274	1,962.1274	0.0318		1,962.9221
Total	**0.6914**	**3.6770**	**5.7758**	**0.0318**	**3.0042**	**0.0169**	**3.0211**	**0.8043**	**0.0157**	**0.8200**		**3,273.1491**	**3,273.1491**	**0.0991**		**3,275.6268**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0887	3.3813	0.9102	0.0122	0.3328	3.6500e-003	0.3364	0.0958	3.4900e-003	0.0993		1,311.0216	1,311.0216	0.0673		1,312.7047
Worker	0.6027	0.2956	4.8656	0.0197	2.6715	0.0133	2.6847	0.7085	0.0122	0.7207		1,962.1274	1,962.1274	0.0318		1,962.9221
Total	**0.6914**	**3.6770**	**5.7758**	**0.0318**	**3.0042**	**0.0169**	**3.0211**	**0.8043**	**0.0157**	**0.8200**		**3,273.1491**	**3,273.1491**	**0.0991**		**3,275.6268**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0882	3.3642	0.9070	0.0122	0.3328	3.6000e-003	0.3364	0.0958	3.4400e-003	0.0992		1,309.0160	1,309.0160	0.0667		1,310.6835
Worker	0.5574	0.2700	4.5774	0.0192	2.6715	0.0124	2.6839	0.7085	0.0114	0.7199		1,920.7907	1,920.7907	0.0291		1,921.5191
Total	**0.6456**	**3.6342**	**5.4843**	**0.0314**	**3.0042**	**0.0160**	**3.0202**	**0.8043**	**0.0148**	**0.8191**		**3,229.8067**	**3,229.8067**	**0.0958**		**3,232.2025**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0882	3.3642	0.9070	0.0122	0.3328	3.6000e-003	0.3364	0.0958	3.4400e-003	0.0992		1,309.0160	1,309.0160	0.0667		1,310.6835
Worker	0.5574	0.2700	4.5774	0.0192	2.6715	0.0124	2.6839	0.7085	0.0114	0.7199		1,920.7907	1,920.7907	0.0291		1,921.5191
Total	**0.6456**	**3.6342**	**5.4843**	**0.0314**	**3.0042**	**0.0160**	**3.0202**	**0.8043**	**0.0148**	**0.8191**		**3,229.8067**	**3,229.8067**	**0.0958**		**3,232.2025**

3.6 Paving - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528		2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	4.3700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1586**	**6.2343**	**13.0935**	**0.0230**		**0.2528**	**0.2528**		**0.2528**	**0.2528**		**2,154.2603**	**2,154.2603**	**0.1035**		**2,156.8468**

3.6 Paving - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0466	0.0226	0.3830	1.6100e-003	0.2236	1.0400e-003	0.2246	0.0593	9.5000e-004	0.0602		160.7356	160.7356	2.4400e-003		160.7966
Total	**0.0466**	**0.0226**	**0.3830**	**1.6100e-003**	**0.2236**	**1.0400e-003**	**0.2246**	**0.0593**	**9.5000e-004**	**0.0602**		**160.7356**	**160.7356**	**2.4400e-003**		**160.7966**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528	0.0000	2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	4.3700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1586**	**6.2343**	**13.0935**	**0.0230**		**0.2528**	**0.2528**		**0.2528**	**0.2528**	**0.0000**	**2,154.2603**	**2,154.2603**	**0.1035**		**2,156.8468**

3.6 Paving - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0466	0.0226	0.3830	1.6100e-003	0.2236	1.0400e-003	0.2246	0.0593	9.5000e-004	0.0602		160.7356	160.7356	2.4400e-003		160.7966
Total	**0.0466**	**0.0226**	**0.3830**	**1.6100e-003**	**0.2236**	**1.0400e-003**	**0.2246**	**0.0593**	**9.5000e-004**	**0.0602**		**160.7356**	**160.7356**	**2.4400e-003**		**160.7966**

3.7 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	99.9652					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**100.0960**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1120	0.0542	0.9193	3.8600e-003	0.5365	2.4900e-003	0.5390	0.1423	2.2900e-003	0.1446		385.7655	385.7655	5.8500e-003		385.9118
Total	**0.1120**	**0.0542**	**0.9193**	**3.8600e-003**	**0.5365**	**2.4900e-003**	**0.5390**	**0.1423**	**2.2900e-003**	**0.1446**		**385.7655**	**385.7655**	**5.8500e-003**		**385.9118**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	99.9652					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**100.0960**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1120	0.0542	0.9193	3.8600e-003	0.5365	2.4900e-003	0.5390	0.1423	2.2900e-003	0.1446		385.7655	385.7655	5.8500e-003		385.9118
Total	**0.1120**	**0.0542**	**0.9193**	**3.8600e-003**	**0.5365**	**2.4900e-003**	**0.5390**	**0.1423**	**2.2900e-003**	**0.1446**		**385.7655**	**385.7655**	**5.8500e-003**		**385.9118**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1714	11.1284	26.7358	0.1279	13.0670	0.0730	13.1400	3.4944	0.0678	3.5622		13,104.4671	13,104.4671	0.5071		13,117.1446
Unmitigated	2.1714	11.1284	26.7358	0.1279	13.0670	0.0730	13.1400	3.4944	0.0678	3.5622		13,104.4671	13,104.4671	0.5071		13,117.1446

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,556.10	1,495.26	1371.24	5,197,488	5,197,488
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	389.08	484.61	403.43	551,642	551,642
Parking Lot	0.00	0.00	0.00		
Strip Mall	90.41	85.76	41.68	157,508	157,508
Total	2,035.59	2,065.63	1,816.35	5,906,639	5,906,639

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Enclosed Parking with Elevator	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
High Turnover (Sit Down Restaurant)	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Parking Lot	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Strip Mall	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0969	0.8392	0.4361	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6850	1,056.6850	0.0203	0.0194	1,062.9644
NaturalGas Unmitigated	0.0969	0.8392	0.4361	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6850	1,056.6850	0.0203	0.0194	1,062.9644

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7038.07	0.0759	0.6486	0.2760	4.1400e-003		0.0524	0.0524		0.0524	0.0524		828.0078	828.0078	0.0159	0.0152	832.9282
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1934.59	0.0209	0.1897	0.1593	1.1400e-003		0.0144	0.0144		0.0144	0.0144		227.5989	227.5989	4.3600e-003	4.1700e-003	228.9514
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	9.16603	1.0000e-004	9.0000e-004	7.5000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		1.0784	1.0784	2.0000e-005	2.0000e-005	1.0848
Total		**0.0969**	**0.8392**	**0.4361**	**5.2900e-003**		**0.0669**	**0.0669**		**0.0669**	**0.0669**		**1,056.6850**	**1,056.6850**	**0.0203**	**0.0194**	**1,062.9644**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.03807	0.0759	0.6486	0.2760	4.1400e-003		0.0524	0.0524		0.0524	0.0524		828.0078	828.0078	0.0159	0.0152	832.9282
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.93459	0.0209	0.1897	0.1593	1.1400e-003		0.0144	0.0144		0.0144	0.0144		227.5989	227.5989	4.3600e-003	4.1700e-003	228.9514
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.00916603	1.0000e-004	9.0000e-004	7.5000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		1.0784	1.0784	2.0000e-005	2.0000e-005	1.0848
Total		**0.0969**	**0.8392**	**0.4361**	**5.2900e-003**		**0.0669**	**0.0669**		**0.0669**	**0.0669**		**1,056.6850**	**1,056.6850**	**0.0203**	**0.0194**	**1,062.9644**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	72.7765	5.4924	148.4682	0.3306		19.5098	19.5098		19.5098	19.5098	2,379.1973	4,606.8512	6,986.0485	7.1286	0.1615	7,212.3848
Unmitigated	72.7765	5.4924	148.4682	0.3306		19.5098	19.5098		19.5098	19.5098	2,379.1973	4,606.8512	6,986.0485	7.1286	0.1615	7,212.3848

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	66.5571	5.2701	129.1722	0.3295		19.4026	19.4026		19.4026	19.4026	2,379.1973	4,572.0000	6,951.1973	7.0952	0.1615	7,176.6999
Landscaping	0.5797	0.2223	19.2960	1.0200e-003		0.1072	0.1072		0.1072	0.1072		34.8512	34.8512	0.0334		35.6850
Total	**72.7765**	**5.4924**	**148.4682**	**0.3306**		**19.5098**	**19.5098**		**19.5098**	**19.5098**	**2,379.1973**	**4,606.8512**	**6,986.0485**	**7.1286**	**0.1615**	**7,212.3849**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	66.5571	5.2701	129.1722	0.3295		19.4026	19.4026		19.4026	19.4026	2,379.1973	4,572.0000	6,951.1973	7.0952	0.1615	7,176.6999
Landscaping	0.5797	0.2223	19.2960	1.0200e-003		0.1072	0.1072		0.1072	0.1072		34.8512	34.8512	0.0334		35.6850
Total	**72.7765**	**5.4924**	**148.4682**	**0.3306**		**19.5098**	**19.5098**		**19.5098**	**19.5098**	**2,379.1973**	**4,606.8512**	**6,986.0485**	**7.1286**	**0.1615**	**7,212.3849**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 6

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	403.00	Space	3.63	161,200.00	0
Parking Lot	3.00	Space	0.03	1,200.00	0
High Turnover (Sit Down Restaurant)	3.06	1000sqft	0.01	3,060.00	0
Apartments Mid Rise	234.00	Dwelling Unit	0.97	251,927.00	669
Strip Mall	2.04	1000sqft	0.01	2,040.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2031
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND. See SWAPE comment on parking.

Demolition - Consistent with the IS/MND's model.

Grading - Consistent with the IS/MND's model.

Architectural Coating - Consistent with the IS/MND

Woodstoves - Consistent with the IS/MND.

Area Coating - Consistent with the IS/MND.

Water And Wastewater - Consistent with the IS/MND.

Solid Waste - Consistent with the IS/MND.

Trips and VMT - Consistent with the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	9,744.00	10,368.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	170,051.00	183,823.00
tblArchitecturalCoating	ConstArea_Residential_Interior	510,152.00	551,470.00
tblAreaCoating	Area_Parking	9744	10368
tblAreaCoating	Area_Residential_Exterior	170051	183823
tblAreaCoating	Area_Residential_Interior	510152	551470
tblFireplaces	NumberGas	198.90	215.90
tblFireplaces	NumberNoFireplace	23.40	25.40
tblFireplaces	NumberWood	11.70	12.70
tblGrading	MaterialExported	0.00	48,740.00
tblLandUse	LandUseSquareFeet	234,000.00	251,927.00
tblLandUse	LotAcreage	0.07	0.01
tblLandUse	LotAcreage	6.16	0.97
tblLandUse	LotAcreage	0.05	0.01
tblSolidWaste	SolidWasteGenerationRate	107.64	116.84
tblTripsAndVMT	HaulingTripNumber	327.00	830.00
tblTripsAndVMT	HaulingTripNumber	4,819.00	9,748.00
tblWater	IndoorWaterUseRate	15,246,042.00	16,549,122.51
tblWater	OutdoorWaterUseRate	9,611,635.17	10,433,142.45
tblWoodstoves	NumberCatalytic	11.70	12.70
tblWoodstoves	NumberNoncatalytic	11.70	12.70

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	7.3846	180.2016	82.9994	0.8734	28.0046	0.5542	28.5588	9.9840	0.5403	10.4216	0.0000	95,179.4888	95,179.4888	6.6593	0.0000	95,345.9700
2031	100.2224	11.5766	21.2314	0.0608	3.0042	0.2538	3.1684	0.8043	0.2538	0.9673	0.0000	5,972.7244	5,972.7244	0.2135	0.0000	5,978.0624
Maximum	**100.2224**	**180.2016**	**82.9994**	**0.8734**	**28.0046**	**0.5542**	**28.5588**	**9.9840**	**0.5403**	**10.4216**	**0.0000**	**95,179.4888**	**95,179.4888**	**6.6593**	**0.0000**	**95,345.9700**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	7.3846	180.2016	82.9994	0.8734	28.0046	0.5542	28.5588	9.9840	0.5403	10.4216	0.0000	95,179.4888	95,179.4888	6.6593	0.0000	95,345.9700
2031	100.2224	11.5766	21.2314	0.0608	3.0042	0.2538	3.1684	0.8043	0.2538	0.9673	0.0000	5,972.7244	5,972.7244	0.2135	0.0000	5,978.0624
Maximum	**100.2224**	**180.2016**	**82.9994**	**0.8734**	**28.0046**	**0.5542**	**28.5588**	**9.9840**	**0.5403**	**10.4216**	**0.0000**	**95,179.4888**	**95,179.4888**	**6.6593**	**0.0000**	**95,345.9700**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	72.7765	5.4924	148.4682	0.3306		19.5098	19.5098		19.5098	19.5098	2,379.1973	4,606.8512	6,986.0485	7.1286	0.1615	7,212.3848
Energy	0.0969	0.8392	0.4361	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6850	1,056.6850	0.0203	0.0194	1,062.9644
Mobile	2.0734	11.2330	25.2258	0.1215	13.0670	0.0732	13.1402	3.4944	0.0680	3.5625		12,460.1537	12,460.1537	0.5113		12,472.9357
Total	**74.9468**	**17.5646**	**174.1301**	**0.4573**	**13.0670**	**19.6500**	**32.7170**	**3.4944**	**19.6448**	**23.1392**	**2,379.1973**	**18,123.6900**	**20,502.8872**	**7.6601**	**0.1809**	**20,748.2849**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	72.7765	5.4924	148.4682	0.3306		19.5098	19.5098		19.5098	19.5098	2,379.1973	4,606.8512	6,986.0485	7.1286	0.1615	7,212.3848
Energy	0.0969	0.8392	0.4361	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6850	1,056.6850	0.0203	0.0194	1,062.9644
Mobile	2.0734	11.2330	25.2258	0.1215	13.0670	0.0732	13.1402	3.4944	0.0680	3.5625		12,460.1537	12,460.1537	0.5113		12,472.9357
Total	**74.9468**	**17.5646**	**174.1301**	**0.4573**	**13.0670**	**19.6500**	**32.7170**	**3.4944**	**19.6448**	**23.1392**	**2,379.1973**	**18,123.6900**	**20,502.8872**	**7.6601**	**0.1809**	**20,748.2849**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/18/2030	5/15/2030	5	20	
2	Site Preparation	Site Preparation	5/16/2030	5/22/2030	5	5	
3	Grading	Grading	5/23/2030	6/3/2030	5	8	
4	Building Construction	Building Construction	6/4/2030	4/21/2031	5	230	
5	Paving	Paving	4/22/2031	5/15/2031	5	18	
6	Architectural Coating	Architectural Coating	5/16/2031	6/10/2031	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 3.66

Residential Indoor: 551,470; Residential Outdoor: 183,823; Non-Residential Indoor: 7,650; Non-Residential Outdoor: 2,550; Striped Parking Area: 10,368 (Architectural Coating – sqft)

OffRoad Equipment

Warner Center Phase 6 - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	830.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	9,748.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	239.00	52.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5437	0.0000	3.5437	0.5365	0.0000	0.5365			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**3.5437**	**0.3511**	**3.8948**	**0.5365**	**0.3511**	**0.8876**		**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1950	5.8727	2.3253	0.0285	0.7249	0.0109	0.7358	0.1986	0.0104	0.2091		3,120.5660	3,120.5660	0.2219		3,126.1122
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0427	0.0203	0.2730	1.1600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		115.4392	115.4392	1.8500e-003		115.4855
Total	**0.2376**	**5.8930**	**2.5984**	**0.0296**	**0.8926**	**0.0117**	**0.9043**	**0.2431**	**0.0112**	**0.2543**		**3,236.0052**	**3,236.0052**	**0.2237**		**3,241.5976**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5437	0.0000	3.5437	0.5365	0.0000	0.5365			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**3.5437**	**0.3511**	**3.8948**	**0.5365**	**0.3511**	**0.8876**	**0.0000**	**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1950	5.8727	2.3253	0.0285	0.7249	0.0109	0.7358	0.1986	0.0104	0.2091		3,120.5660	3,120.5660	0.2219		3,126.1122
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0427	0.0203	0.2730	1.1600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		115.4392	115.4392	1.8500e-003		115.4855
Total	**0.2376**	**5.8930**	**2.5984**	**0.0296**	**0.8926**	**0.0117**	**0.9043**	**0.2431**	**0.0112**	**0.2543**		**3,236.0052**	**3,236.0052**	**0.2237**		**3,241.5976**

3.3 Site Preparation - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0512	0.0244	0.3276	1.3900e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		138.5270	138.5270	2.2200e-003		138.5826
Total	**0.0512**	**0.0244**	**0.3276**	**1.3900e-003**	**0.2012**	**1.0000e-003**	**0.2022**	**0.0534**	**9.2000e-004**	**0.0543**		**138.5270**	**138.5270**	**2.2200e-003**		**138.5826**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0512	0.0244	0.3276	1.3900e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		138.5270	138.5270	2.2200e-003		138.5826
Total	**0.0512**	**0.0244**	**0.3276**	**1.3900e-003**	**0.2012**	**1.0000e-003**	**0.2022**	**0.0534**	**9.2000e-004**	**0.0543**		**138.5270**	**138.5270**	**2.2200e-003**		**138.5826**

3.4 Grading - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.7201	3,439.7201	0.1437		3,443.3117
Total	**1.6179**	**7.7501**	**14.4518**	**0.0363**	**6.5523**	**0.2340**	**6.7864**	**3.3675**	**0.2340**	**3.6015**		**3,439.7201**	**3,439.7201**	**0.1437**		**3,443.3117**

3.4 Grading - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.7241	172.4312	68.2746	0.8360	21.2846	0.3194	21.6040	5.8324	0.3055	6.1379		91,624.3295	91,624.3295	6.5137		91,787.1728
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0427	0.0203	0.2730	1.1600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		115.4392	115.4392	1.8500e-003		115.4855
Total	**5.7667**	**172.4515**	**68.5476**	**0.8371**	**21.4523**	**0.3202**	**21.7725**	**5.8769**	**0.3063**	**6.1832**		**91,739.7686**	**91,739.7686**	**6.5156**		**91,902.6583**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.7201	3,439.7201	0.1437		3,443.3117
Total	**1.6179**	**7.7501**	**14.4518**	**0.0363**	**6.5523**	**0.2340**	**6.7864**	**3.3675**	**0.2340**	**3.6015**	**0.0000**	**3,439.7201**	**3,439.7201**	**0.1437**		**3,443.3117**

3.4 Grading - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.7241	172.4312	68.2746	0.8360	21.2846	0.3194	21.6040	5.8324	0.3055	6.1379		91,624.3295	91,624.3295	6.5137		91,787.1728
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0427	0.0203	0.2730	1.1600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		115.4392	115.4392	1.8500e-003		115.4855
Total	**5.7667**	**172.4515**	**68.5476**	**0.8371**	**21.4523**	**0.3202**	**21.7725**	**5.8769**	**0.3063**	**6.1832**		**91,739.7686**	**91,739.7686**	**6.5156**		**91,902.6583**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0931	3.3636	0.9940	0.0119	0.3328	3.7400e-003	0.3365	0.0958	3.5800e-003	0.0994		1,276.8406	1,276.8406	0.0710		1,278.6146
Worker	0.6797	0.3237	4.3504	0.0184	2.6715	0.0133	2.6847	0.7085	0.0122	0.7207		1,839.3306	1,839.3306	0.0295		1,840.0687
Total	**0.7728**	**3.6873**	**5.3444**	**0.0303**	**3.0042**	**0.0170**	**3.0212**	**0.8043**	**0.0158**	**0.8201**		**3,116.1712**	**3,116.1712**	**0.1005**		**3,118.6833**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0931	3.3636	0.9940	0.0119	0.3328	3.7400e-003	0.3365	0.0958	3.5800e-003	0.0994		1,276.8406	1,276.8406	0.0710		1,278.6146
Worker	0.6797	0.3237	4.3504	0.0184	2.6715	0.0133	2.6847	0.7085	0.0122	0.7207		1,839.3306	1,839.3306	0.0295		1,840.0687
Total	**0.7728**	**3.6873**	**5.3444**	**0.0303**	**3.0042**	**0.0170**	**3.0212**	**0.8043**	**0.0158**	**0.8201**		**3,116.1712**	**3,116.1712**	**0.1005**		**3,118.6833**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0925	3.3466	0.9901	0.0118	0.3328	3.6800e-003	0.3364	0.0958	3.5200e-003	0.0993		1,274.9589	1,274.9589	0.0703		1,276.7151
Worker	0.6294	0.2954	4.0843	0.0180	2.6715	0.0124	2.6839	0.7085	0.0114	0.7199		1,800.2188	1,800.2188	0.0270		1,800.8944
Total	**0.7219**	**3.6420**	**5.0744**	**0.0299**	**3.0042**	**0.0161**	**3.0203**	**0.8043**	**0.0149**	**0.8192**		**3,075.1776**	**3,075.1776**	**0.0973**		**3,077.6095**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0925	3.3466	0.9901	0.0118	0.3328	3.6800e-003	0.3364	0.0958	3.5200e-003	0.0993		1,274.9589	1,274.9589	0.0703		1,276.7151
Worker	0.6294	0.2954	4.0843	0.0180	2.6715	0.0124	2.6839	0.7085	0.0114	0.7199		1,800.2188	1,800.2188	0.0270		1,800.8944
Total	**0.7219**	**3.6420**	**5.0744**	**0.0299**	**3.0042**	**0.0161**	**3.0203**	**0.8043**	**0.0149**	**0.8192**		**3,075.1776**	**3,075.1776**	**0.0973**		**3,077.6095**

3.6 Paving - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528		2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	4.3700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1586**	**6.2343**	**13.0935**	**0.0230**		**0.2528**	**0.2528**		**0.2528**	**0.2528**		**2,154.2603**	**2,154.2603**	**0.1035**		**2,156.8468**

3.6 Paving - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0527	0.0247	0.3418	1.5100e-003	0.2236	1.0400e-003	0.2246	0.0593	9.5000e-004	0.0602		150.6459	150.6459	2.2600e-003		150.7025
Total	**0.0527**	**0.0247**	**0.3418**	**1.5100e-003**	**0.2236**	**1.0400e-003**	**0.2246**	**0.0593**	**9.5000e-004**	**0.0602**		**150.6459**	**150.6459**	**2.2600e-003**		**150.7025**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528	0.0000	2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	4.3700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1586**	**6.2343**	**13.0935**	**0.0230**		**0.2528**	**0.2528**		**0.2528**	**0.2528**	**0.0000**	**2,154.2603**	**2,154.2603**	**0.1035**		**2,156.8468**

3.6 Paving - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0527	0.0247	0.3418	1.5100e-003	0.2236	1.0400e-003	0.2246	0.0593	9.5000e-004	0.0602		150.6459	150.6459	2.2600e-003		150.7025
Total	**0.0527**	**0.0247**	**0.3418**	**1.5100e-003**	**0.2236**	**1.0400e-003**	**0.2246**	**0.0593**	**9.5000e-004**	**0.0602**		**150.6459**	**150.6459**	**2.2600e-003**		**150.7025**

3.7 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	99.9652					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**100.0960**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1264	0.0593	0.8203	3.6200e-003	0.5365	2.4900e-003	0.5390	0.1423	2.2900e-003	0.1446		361.5502	361.5502	5.4300e-003		361.6859
Total	**0.1264**	**0.0593**	**0.8203**	**3.6200e-003**	**0.5365**	**2.4900e-003**	**0.5390**	**0.1423**	**2.2900e-003**	**0.1446**		**361.5502**	**361.5502**	**5.4300e-003**		**361.6859**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	99.9652					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**100.0960**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1264	0.0593	0.8203	3.6200e-003	0.5365	2.4900e-003	0.5390	0.1423	2.2900e-003	0.1446		361.5502	361.5502	5.4300e-003		361.6859
Total	**0.1264**	**0.0593**	**0.8203**	**3.6200e-003**	**0.5365**	**2.4900e-003**	**0.5390**	**0.1423**	**2.2900e-003**	**0.1446**		**361.5502**	**361.5502**	**5.4300e-003**		**361.6859**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0734	11.2330	25.2258	0.1215	13.0670	0.0732	13.1402	3.4944	0.0680	3.5625		12,460.1537	12,460.1537	0.5113		12,472.9357
Unmitigated	2.0734	11.2330	25.2258	0.1215	13.0670	0.0732	13.1402	3.4944	0.0680	3.5625		12,460.1537	12,460.1537	0.5113		12,472.9357

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,556.10	1,495.26	1371.24	5,197,488	5,197,488
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	389.08	484.61	403.43	551,642	551,642
Parking Lot	0.00	0.00	0.00		
Strip Mall	90.41	85.76	41.68	157,508	157,508
Total	2,035.59	2,065.63	1,816.35	5,906,639	5,906,639

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Enclosed Parking with Elevator	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
High Turnover (Sit Down Restaurant)	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Parking Lot	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752
Strip Mall	0.554622	0.041562	0.206751	0.111062	0.012660	0.005774	0.022378	0.035217	0.002175	0.001476	0.004853	0.000718	0.000752

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0969	0.8392	0.4361	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6850	1,056.6850	0.0203	0.0194	1,062.9644
NaturalGas Unmitigated	0.0969	0.8392	0.4361	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,056.6850	1,056.6850	0.0203	0.0194	1,062.9644

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7038.07	0.0759	0.6486	0.2760	4.1400e-003		0.0524	0.0524		0.0524	0.0524		828.0078	828.0078	0.0159	0.0152	832.9282
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1934.59	0.0209	0.1897	0.1593	1.1400e-003		0.0144	0.0144		0.0144	0.0144		227.5989	227.5989	4.3600e-003	4.1700e-003	228.9514
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	9.16603	1.0000e-004	9.0000e-004	7.5000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		1.0784	1.0784	2.0000e-005	2.0000e-005	1.0848
Total		**0.0969**	**0.8392**	**0.4361**	**5.2900e-003**		**0.0669**	**0.0669**		**0.0669**	**0.0669**		**1,056.6850**	**1,056.6850**	**0.0203**	**0.0194**	**1,062.9644**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.03807	0.0759	0.6486	0.2760	4.1400e-003		0.0524	0.0524		0.0524	0.0524		828.0078	828.0078	0.0159	0.0152	832.9282
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.93459	0.0209	0.1897	0.1593	1.1400e-003		0.0144	0.0144		0.0144	0.0144		227.5989	227.5989	4.3600e-003	4.1700e-003	228.9514
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.00916603	1.0000e-004	9.0000e-004	7.5000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		1.0784	1.0784	2.0000e-005	2.0000e-005	1.0848
Total		**0.0969**	**0.8392**	**0.4361**	**5.2900e-003**		**0.0669**	**0.0669**		**0.0669**	**0.0669**		**1,056.6850**	**1,056.6850**	**0.0203**	**0.0194**	**1,062.9644**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	72.7765	5.4924	148.4682	0.3306		19.5098	19.5098		19.5098	19.5098	2,379.1973	4,606.8512	6,986.0485	7.1286	0.1615	7,212.3848
Unmitigated	72.7765	5.4924	148.4682	0.3306		19.5098	19.5098		19.5098	19.5098	2,379.1973	4,606.8512	6,986.0485	7.1286	0.1615	7,212.3848

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	66.5571	5.2701	129.1722	0.3295		19.4026	19.4026		19.4026	19.4026	2,379.1973	4,572.0000	6,951.1973	7.0952	0.1615	7,176.6999
Landscaping	0.5797	0.2223	19.2960	1.0200e-003		0.1072	0.1072		0.1072	0.1072		34.8512	34.8512	0.0334		35.6850
Total	**72.7765**	**5.4924**	**148.4682**	**0.3306**		**19.5098**	**19.5098**		**19.5098**	**19.5098**	**2,379.1973**	**4,606.8512**	**6,986.0485**	**7.1286**	**0.1615**	**7,212.3849**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	66.5571	5.2701	129.1722	0.3295		19.4026	19.4026		19.4026	19.4026	2,379.1973	4,572.0000	6,951.1973	7.0952	0.1615	7,176.6999
Landscaping	0.5797	0.2223	19.2960	1.0200e-003		0.1072	0.1072		0.1072	0.1072		34.8512	34.8512	0.0334		35.6850
Total	**72.7765**	**5.4924**	**148.4682**	**0.3306**		**19.5098**	**19.5098**		**19.5098**	**19.5098**	**2,379.1973**	**4,606.8512**	**6,986.0485**	**7.1286**	**0.1615**	**7,212.3849**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 7

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	246.50	1000sqft	0.38	246,499.00	0
General Office Building	3.85	1000sqft	0.01	3,853.00	0
Enclosed Parking with Elevator	801.00	Space	7.21	320,400.00	0
Strip Mall	11.87	1000sqft	0.02	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2033
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND's model. See SWAPE comment on parking

Demolition - Consistent with the IS/MND's model.

Grading - Consistent with information provided in the IS/MND.

Trips and VMT - Consistent with changes in the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	59,000.00
tblLandUse	LandUseSquareFeet	246,500.00	246,499.00
tblLandUse	LandUseSquareFeet	3,850.00	3,853.00
tblLandUse	LotAcreage	5.66	0.38
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.27	0.02
tblTripsAndVMT	HaulingTripNumber	132.00	332.00
tblTripsAndVMT	HaulingTripNumber	5,834.00	10,208.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2031	0.1707	1.6951	1.7668	8.1100e-003	0.4100	0.0175	0.4275	0.1507	0.0173	0.1680	0.0000	760.8673	760.8673	0.0408	0.0000	761.8878
2032	1.4058	1.0346	1.6156	4.9600e-003	0.2053	0.0145	0.2199	0.0555	0.0145	0.0699	0.0000	446.4684	446.4684	0.0172	0.0000	446.8971
Maximum	**1.4058**	**1.6951**	**1.7668**	**8.1100e-003**	**0.4100**	**0.0175**	**0.4275**	**0.1507**	**0.0173**	**0.1680**	**0.0000**	**760.8673**	**760.8673**	**0.0408**	**0.0000**	**761.8878**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2031	0.1707	1.6951	1.7668	8.1100e-003	0.4100	0.0175	0.4275	0.1507	0.0173	0.1680	0.0000	760.8670	760.8670	0.0408	0.0000	761.8875
2032	1.4058	1.0346	1.6156	4.9600e-003	0.2053	0.0145	0.2199	0.0555	0.0145	0.0699	0.0000	446.4682	446.4682	0.0172	0.0000	446.8969
Maximum	**1.4058**	**1.6951**	**1.7668**	**8.1100e-003**	**0.4100**	**0.0175**	**0.4275**	**0.1507**	**0.0173**	**0.1680**	**0.0000**	**760.8670**	**760.8670**	**0.0408**	**0.0000**	**761.8875**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-10-2031**	**9-9-2031**	1.1814	1.1814
2	**9-10-2031**	**12-9-2031**	0.5315	0.5315
3	**12-10-2031**	**3-9-2032**	0.5294	0.5294
4	**3-10-2032**	**6-9-2032**	0.5330	0.5330
5	**6-10-2032**	**9-9-2032**	1.5072	1.5072
		Highest	1.5072	1.5072

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0955	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0264	0.0264	7.0000e-005	0.0000	0.0281
Energy	0.0142	0.1287	0.1081	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	3,086.3631	3,086.3631	0.0723	0.0170	3,093.2255
Mobile	0.4180	2.4845	5.3801	0.0272	2.9141	0.0148	2.9289	0.7805	0.0137	0.7942	0.0000	2,536.2347	2,536.2347	0.0990	0.0000	2,538.7106
Waste						0.0000	0.0000		0.0000	0.0000	49.7917	0.0000	49.7917	2.9426	0.0000	123.3567
Water						0.0000	0.0000		0.0000	0.0000	14.3954	501.1540	515.5494	1.4904	0.0374	563.9422
Total	**1.5277**	**2.6133**	**5.5018**	**0.0280**	**2.9141**	**0.0246**	**2.9387**	**0.7805**	**0.0235**	**0.8040**	**64.1870**	**6,123.7781**	**6,187.9652**	**4.6044**	**0.0543**	**6,319.2631**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0955	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0264	0.0264	7.0000e-005	0.0000	0.0281
Energy	0.0142	0.1287	0.1081	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	3,086.3631	3,086.3631	0.0723	0.0170	3,093.2255
Mobile	0.4180	2.4845	5.3801	0.0272	2.9141	0.0148	2.9289	0.7805	0.0137	0.7942	0.0000	2,536.2347	2,536.2347	0.0990	0.0000	2,538.7106
Waste						0.0000	0.0000		0.0000	0.0000	49.7917	0.0000	49.7917	2.9426	0.0000	123.3567
Water						0.0000	0.0000		0.0000	0.0000	14.3954	501.1540	515.5494	1.4904	0.0374	563.9422
Total	**1.5277**	**2.6133**	**5.5018**	**0.0280**	**2.9141**	**0.0246**	**2.9387**	**0.7805**	**0.0235**	**0.8040**	**64.1870**	**6,123.7781**	**6,187.9652**	**4.6044**	**0.0543**	**6,319.2631**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/10/2031	7/7/2031	5	20	
2	Site Preparation	Site Preparation	7/8/2031	7/21/2031	5	10	
3	Grading	Grading	7/22/2031	8/18/2031	5	20	
4	Building Construction	Building Construction	8/19/2031	7/5/2032	5	230	
5	Paving	Paving	7/6/2032	8/2/2032	5	20	
6	Architectural Coating	Architectural Coating	8/3/2032	8/30/2032	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 7.21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 393,333; Non-Residential Outdoor: 131,111; Striped Parking Area: 19,224 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Warner Center Phase 7 - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	332.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10,208.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	218.00	95.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0143	0.0000	0.0143	2.1600e-003	0.0000	2.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.0978	0.1892	4.6000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	39.7218	39.7218	1.6800e-003	0.0000	39.7637
Total	**0.0208**	**0.0978**	**0.1892**	**4.6000e-004**	**0.0143**	**3.5100e-003**	**0.0178**	**2.1600e-003**	**3.5100e-003**	**5.6700e-003**	**0.0000**	**39.7218**	**39.7218**	**1.6800e-003**	**0.0000**	**39.7637**

3.2 Demolition - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.7000e-004	0.0237	9.1600e-003	1.1000e-004	2.8500e-003	4.0000e-005	2.9000e-003	7.8000e-004	4.0000e-005	8.2000e-004	0.0000	11.4115	11.4115	7.9000e-004	0.0000	11.4313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	1.9000e-004	2.6400e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0412	1.0412	2.0000e-005	0.0000	1.0416
Total	**1.1200e-003**	**0.0239**	**0.0118**	**1.2000e-004**	**4.5000e-003**	**5.0000e-005**	**4.5500e-003**	**1.2200e-003**	**5.0000e-005**	**1.2600e-003**	**0.0000**	**12.4527**	**12.4527**	**8.1000e-004**	**0.0000**	**12.4729**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0143	0.0000	0.0143	2.1600e-003	0.0000	2.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.0978	0.1892	4.6000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	39.7218	39.7218	1.6800e-003	0.0000	39.7637
Total	**0.0208**	**0.0978**	**0.1892**	**4.6000e-004**	**0.0143**	**3.5100e-003**	**0.0178**	**2.1600e-003**	**3.5100e-003**	**5.6700e-003**	**0.0000**	**39.7218**	**39.7218**	**1.6800e-003**	**0.0000**	**39.7637**

3.2 Demolition - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.7000e-004	0.0237	9.1600e-003	1.1000e-004	2.8500e-003	4.0000e-005	2.9000e-003	7.8000e-004	4.0000e-005	8.2000e-004	0.0000	11.4115	11.4115	7.9000e-004	0.0000	11.4313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	1.9000e-004	2.6400e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0412	1.0412	2.0000e-005	0.0000	1.0416
Total	**1.1200e-003**	**0.0239**	**0.0118**	**1.2000e-004**	**4.5000e-003**	**5.0000e-005**	**4.5500e-003**	**1.2200e-003**	**5.0000e-005**	**1.2600e-003**	**0.0000**	**12.4527**	**12.4527**	**8.1000e-004**	**0.0000**	**12.4729**

3.3 Site Preparation - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0683	0.0815	2.3000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	20.0023	20.0023	9.9000e-004	0.0000	20.0270
Total	**0.0122**	**0.0683**	**0.0815**	**2.3000e-004**	**0.0903**	**2.1800e-003**	**0.0925**	**0.0497**	**2.1800e-003**	**0.0518**	**0.0000**	**20.0023**	**20.0023**	**9.9000e-004**	**0.0000**	**20.0270**

3.3 Site Preparation - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.5800e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.6247	0.6247	1.0000e-005	0.0000	0.6250
Total	**2.1000e-004**	**1.1000e-004**	**1.5800e-003**	**1.0000e-005**	**9.9000e-004**	**0.0000**	**9.9000e-004**	**2.6000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.6247**	**0.6247**	**1.0000e-005**	**0.0000**	**0.6250**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0683	0.0815	2.3000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	20.0023	20.0023	9.9000e-004	0.0000	20.0270
Total	**0.0122**	**0.0683**	**0.0815**	**2.3000e-004**	**0.0903**	**2.1800e-003**	**0.0925**	**0.0497**	**2.1800e-003**	**0.0518**	**0.0000**	**20.0023**	**20.0023**	**9.9000e-004**	**0.0000**	**20.0270**

3.3 Site Preparation - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.5800e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.6247	0.6247	1.0000e-005	0.0000	0.6250
Total	**2.1000e-004**	**1.1000e-004**	**1.5800e-003**	**1.0000e-005**	**9.9000e-004**	**0.0000**	**9.9000e-004**	**2.6000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.6247**	**0.6247**	**1.0000e-005**	**0.0000**	**0.6250**

3.4 Grading - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.0775	0.1445	3.6000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	31.2046	31.2046	1.3000e-003	0.0000	31.2372
Total	**0.0162**	**0.0775**	**0.1445**	**3.6000e-004**	**0.0655**	**2.3400e-003**	**0.0679**	**0.0337**	**2.3400e-003**	**0.0360**	**0.0000**	**31.2046**	**31.2046**	**1.3000e-003**	**0.0000**	**31.2372**

3.4 Grading - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0237	0.7282	0.2818	3.5300e-003	0.0877	1.3100e-003	0.0890	0.0241	1.2500e-003	0.0253	0.0000	350.8706	350.8706	0.0243	0.0000	351.4785
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	1.9000e-004	2.6400e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0412	1.0412	2.0000e-005	0.0000	1.0416
Total	**0.0240**	**0.7284**	**0.2844**	**3.5400e-003**	**0.0894**	**1.3200e-003**	**0.0907**	**0.0245**	**1.2600e-003**	**0.0258**	**0.0000**	**351.9118**	**351.9118**	**0.0243**	**0.0000**	**352.5201**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.0775	0.1445	3.6000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	31.2046	31.2046	1.3000e-003	0.0000	31.2372
Total	**0.0162**	**0.0775**	**0.1445**	**3.6000e-004**	**0.0655**	**2.3400e-003**	**0.0679**	**0.0337**	**2.3400e-003**	**0.0360**	**0.0000**	**31.2046**	**31.2046**	**1.3000e-003**	**0.0000**	**31.2372**

3.4 Grading - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0237	0.7282	0.2818	3.5300e-003	0.0877	1.3100e-003	0.0890	0.0241	1.2500e-003	0.0253	0.0000	350.8706	350.8706	0.0243	0.0000	351.4785
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	1.9000e-004	2.6400e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0412	1.0412	2.0000e-005	0.0000	1.0416
Total	**0.0240**	**0.7284**	**0.2844**	**3.5400e-003**	**0.0894**	**1.3200e-003**	**0.0907**	**0.0245**	**1.2600e-003**	**0.0258**	**0.0000**	**351.9118**	**351.9118**	**0.0243**	**0.0000**	**352.5201**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0635	0.3848	0.7836	1.5000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	127.4876	127.4876	5.1100e-003	0.0000	127.6155
Total	**0.0635**	**0.3848**	**0.7836**	**1.5000e-003**		**7.1800e-003**	**7.1800e-003**		**7.1800e-003**	**7.1800e-003**	**0.0000**	**127.4876**	**127.4876**	**5.1100e-003**	**0.0000**	**127.6155**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9800e-003	0.3007	0.0842	1.0700e-003	0.0290	3.2000e-004	0.0294	8.3800e-003	3.1000e-004	8.6900e-003	0.0000	104.0713	104.0713	5.4900e-003	0.0000	104.2085
Worker	0.0247	0.0135	0.1861	8.1000e-004	0.1160	5.5000e-004	0.1166	0.0308	5.0000e-004	0.0313	0.0000	73.3904	73.3904	1.1000e-003	0.0000	73.4180
Total	**0.0327**	**0.3142**	**0.2703**	**1.8800e-003**	**0.1450**	**8.7000e-004**	**0.1459**	**0.0392**	**8.1000e-004**	**0.0400**	**0.0000**	**177.4617**	**177.4617**	**6.5900e-003**	**0.0000**	**177.6265**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0635	0.3848	0.7836	1.5000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	127.4874	127.4874	5.1100e-003	0.0000	127.6153
Total	**0.0635**	**0.3848**	**0.7836**	**1.5000e-003**		**7.1800e-003**	**7.1800e-003**		**7.1800e-003**	**7.1800e-003**	**0.0000**	**127.4874**	**127.4874**	**5.1100e-003**	**0.0000**	**127.6153**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9800e-003	0.3007	0.0842	1.0700e-003	0.0290	3.2000e-004	0.0294	8.3800e-003	3.1000e-004	8.6900e-003	0.0000	104.0713	104.0713	5.4900e-003	0.0000	104.2085
Worker	0.0247	0.0135	0.1861	8.1000e-004	0.1160	5.5000e-004	0.1166	0.0308	5.0000e-004	0.0313	0.0000	73.3904	73.3904	1.1000e-003	0.0000	73.4180
Total	**0.0327**	**0.3142**	**0.2703**	**1.8800e-003**	**0.1450**	**8.7000e-004**	**0.1459**	**0.0392**	**8.1000e-004**	**0.0400**	**0.0000**	**177.4617**	**177.4617**	**6.5900e-003**	**0.0000**	**177.6265**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0871	0.5277	1.0744	2.0600e-003		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003	0.0000	174.8026	174.8026	7.0100e-003	0.0000	174.9779
Total	**0.0871**	**0.5277**	**1.0744**	**2.0600e-003**		**9.8500e-003**	**9.8500e-003**		**9.8500e-003**	**9.8500e-003**	**0.0000**	**174.8026**	**174.8026**	**7.0100e-003**	**0.0000**	**174.9779**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0108	0.4096	0.1150	1.4600e-003	0.0398	4.4000e-004	0.0403	0.0115	4.2000e-004	0.0119	0.0000	142.3949	142.3949	7.4600e-003	0.0000	142.5813
Worker	0.0315	0.0169	0.2399	1.0900e-003	0.1591	7.0000e-004	0.1598	0.0422	6.4000e-004	0.0429	0.0000	98.6052	98.6052	1.3900e-003	0.0000	98.6398
Total	**0.0423**	**0.4265**	**0.3549**	**2.5500e-003**	**0.1989**	**1.1400e-003**	**0.2000**	**0.0537**	**1.0600e-003**	**0.0548**	**0.0000**	**241.0000**	**241.0000**	**8.8500e-003**	**0.0000**	**241.2212**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0871	0.5277	1.0744	2.0600e-003		9.8500e-003	9.8500e-003		9.8500e-003	9.8500e-003	0.0000	174.8024	174.8024	7.0100e-003	0.0000	174.9777
Total	**0.0871**	**0.5277**	**1.0744**	**2.0600e-003**		**9.8500e-003**	**9.8500e-003**		**9.8500e-003**	**9.8500e-003**	**0.0000**	**174.8024**	**174.8024**	**7.0100e-003**	**0.0000**	**174.9777**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0108	0.4096	0.1150	1.4600e-003	0.0398	4.4000e-004	0.0403	0.0115	4.2000e-004	0.0119	0.0000	142.3949	142.3949	7.4600e-003	0.0000	142.5813
Worker	0.0315	0.0169	0.2399	1.0900e-003	0.1591	7.0000e-004	0.1598	0.0422	6.4000e-004	0.0429	0.0000	98.6052	98.6052	1.3900e-003	0.0000	98.6398
Total	**0.0423**	**0.4265**	**0.3549**	**2.5500e-003**	**0.1989**	**1.1400e-003**	**0.2000**	**0.0537**	**1.0600e-003**	**0.0548**	**0.0000**	**241.0000**	**241.0000**	**8.8500e-003**	**0.0000**	**241.2212**

3.6 Paving - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0139	0.0712	0.1585	2.8000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	24.0995	24.0995	1.1300e-003	0.0000	24.1278
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0139**	**0.0712**	**0.1585**	**2.8000e-004**		**3.3100e-003**	**3.3100e-003**		**3.3100e-003**	**3.3100e-003**	**0.0000**	**24.0995**	**24.0995**	**1.1300e-003**	**0.0000**	**24.1278**

3.6 Paving - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.4800e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0203	1.0203	1.0000e-005	0.0000	1.0206
Total	**3.3000e-004**	**1.8000e-004**	**2.4800e-003**	**1.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6500e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.0203**	**1.0203**	**1.0000e-005**	**0.0000**	**1.0206**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0139	0.0712	0.1585	2.8000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	24.0995	24.0995	1.1300e-003	0.0000	24.1277
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0139**	**0.0712**	**0.1585**	**2.8000e-004**		**3.3100e-003**	**3.3100e-003**		**3.3100e-003**	**3.3100e-003**	**0.0000**	**24.0995**	**24.0995**	**1.1300e-003**	**0.0000**	**24.1277**

3.6 Paving - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.4800e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0203	1.0203	1.0000e-005	0.0000	1.0206
Total	**3.3000e-004**	**1.8000e-004**	**2.4800e-003**	**1.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6500e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.0203**	**1.0203**	**1.0000e-005**	**0.0000**	**1.0206**

3.7 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2600					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	8.5600e-003	0.0180	3.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.5533	2.5533	1.0000e-004	0.0000	2.5558
Total	**1.2613**	**8.5600e-003**	**0.0180**	**3.0000e-005**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.0000e-004**	**0.0000**	**2.5558**

3.7 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	5.1000e-004	7.2800e-003	3.0000e-005	4.8300e-003	2.0000e-005	4.8500e-003	1.2800e-003	2.0000e-005	1.3000e-003	0.0000	2.9928	2.9928	4.0000e-005	0.0000	2.9938
Total	**9.6000e-004**	**5.1000e-004**	**7.2800e-003**	**3.0000e-005**	**4.8300e-003**	**2.0000e-005**	**4.8500e-003**	**1.2800e-003**	**2.0000e-005**	**1.3000e-003**	**0.0000**	**2.9928**	**2.9928**	**4.0000e-005**	**0.0000**	**2.9938**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2600					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	8.5600e-003	0.0180	3.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.5533	2.5533	1.0000e-004	0.0000	2.5558
Total	**1.2613**	**8.5600e-003**	**0.0180**	**3.0000e-005**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.0000e-004**	**0.0000**	**2.5558**

3.7 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	5.1000e-004	7.2800e-003	3.0000e-005	4.8300e-003	2.0000e-005	4.8500e-003	1.2800e-003	2.0000e-005	1.3000e-003	0.0000	2.9928	2.9928	4.0000e-005	0.0000	2.9938
Total	**9.6000e-004**	**5.1000e-004**	**7.2800e-003**	**3.0000e-005**	**4.8300e-003**	**2.0000e-005**	**4.8500e-003**	**1.2800e-003**	**2.0000e-005**	**1.3000e-003**	**0.0000**	**2.9928**	**2.9928**	**4.0000e-005**	**0.0000**	**2.9938**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4180	2.4845	5.3801	0.0272	2.9141	0.0148	2.9289	0.7805	0.0137	0.7942	0.0000	2,536.2347	2,536.2347	0.0990	0.0000	2,538.7106
Unmitigated	0.4180	2.4845	5.3801	0.0272	2.9141	0.0148	2.9289	0.7805	0.0137	0.7942	0.0000	2,536.2347	2,536.2347	0.0990	0.0000	2,538.7106

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	2,718.90	606.39	258.83	6,654,475	6,654,475
General Office Building	42.47	9.47	4.04	103,934	103,934
Strip Mall	526.08	499.01	242.50	916,483	916,483
Total	3,287.44	1,114.88	505.37	7,674,892	7,674,892

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741
General Office Building	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741
Strip Mall	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,946.2494	2,946.2494	0.0696	0.0144	2,952.2792
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,946.2494	2,946.2494	0.0696	0.0144	2,952.2792
NaturalGas Mitigated	0.0142	0.1287	0.1081	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	140.1137	140.1137	2.6900e-003	2.5700e-003	140.9463
NaturalGas Unmitigated	0.0142	0.1287	0.1081	7.7000e-004		9.7800e-003	9.7800e-003		9.7800e-003	9.7800e-003	0.0000	140.1137	140.1137	2.6900e-003	2.5700e-003	140.9463

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.56605e+006	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003	0.0000	136.9345	136.9345	2.6200e-003	2.5100e-003	137.7482
General Office Building	40109.7	2.2000e-004	1.9700e-003	1.6500e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1404	2.1404	4.0000e-005	4.0000e-005	2.1531
Strip Mall	19466.8	1.0000e-004	9.5000e-004	8.0000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0388	1.0388	2.0000e-005	2.0000e-005	1.0450
Total		**0.0142**	**0.1287**	**0.1081**	**7.7000e-004**		**9.7800e-003**	**9.7800e-003**		**9.7800e-003**	**9.7800e-003**	**0.0000**	**140.1137**	**140.1137**	**2.6800e-003**	**2.5700e-003**	**140.9463**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.56605e+006	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003	0.0000	136.9345	136.9345	2.6200e-003	2.5100e-003	137.7482
General Office Building	40109.7	2.2000e-004	1.9700e-003	1.6500e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1404	2.1404	4.0000e-005	4.0000e-005	2.1531
Strip Mall	19466.8	1.0000e-004	9.5000e-004	8.0000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0388	1.0388	2.0000e-005	2.0000e-005	1.0450
Total		**0.0142**	**0.1287**	**0.1081**	**7.7000e-004**		**9.7800e-003**	**9.7800e-003**		**9.7800e-003**	**9.7800e-003**	**0.0000**	**140.1137**	**140.1137**	**2.6800e-003**	**2.5700e-003**	**140.9463**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.87754e+006	1,045.7198	0.0247	5.1100e-003	1,047.8600
General Office Building	3.20202e+006	1,783.4031	0.0421	8.7100e-003	1,787.0530
General Office Building	50050.5	27.8762	6.6000e-004	1.4000e-004	27.9332
Strip Mall	160245	89.2503	2.1100e-003	4.4000e-004	89.4330
Total		**2,946.2494**	**0.0696**	**0.0144**	**2,952.2792**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	1.87754e+006	1,045.7198	0.0247	5.1100e-003	1,047.8600
General Office Building	3.20202e+006	1,783.4031	0.0421	8.7100e-003	1,787.0530
General Office Building	50050.5	27.8762	6.6000e-004	1.4000e-004	27.9332
Strip Mall	160245	89.2503	2.1100e-003	4.4000e-004	89.4330
Total		**2,946.2494**	**0.0696**	**0.0144**	**2,952.2792**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0955	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0264	0.0264	7.0000e-005	0.0000	0.0281
Unmitigated	1.0955	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0264	0.0264	7.0000e-005	0.0000	0.0281

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0264	0.0264	7.0000e-005	0.0000	0.0281
Total	**1.0955**	**1.2000e-004**	**0.0135**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0264**	**0.0264**	**7.0000e-005**	**0.0000**	**0.0281**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0264	0.0264	7.0000e-005	0.0000	0.0281
Total	**1.0955**	**1.2000e-004**	**0.0135**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0264**	**0.0264**	**7.0000e-005**	**0.0000**	**0.0281**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	515.5494	1.4904	0.0374	563.9422
Unmitigated	515.5494	1.4904	0.0374	563.9422

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	44.4956 / 27.2715	505.5595	1.4615	0.0366	553.0146
Strip Mall	0.879241 / 0.53889	9.9899	0.0289	7.2000e-004	10.9277
Total		**515.5494**	**1.4904**	**0.0374**	**563.9422**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	44.4956 / 27.2715	505.5595	1.4615	0.0366	553.0146
Strip Mall	0.879241 / 0.53889	9.9899	0.0289	7.2000e-004	10.9277
Total		**515.5494**	**1.4904**	**0.0374**	**563.9422**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.7917	2.9426	0.0000	123.3567
Unmitigated	49.7917	2.9426	0.0000	123.3567

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	232.83	47.2624	2.7931	0.0000	117.0906
Strip Mall	12.46	2.5293	0.1495	0.0000	6.2662
Total		**49.7917**	**2.9426**	**0.0000**	**123.3567**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	232.83	47.2624	2.7931	0.0000	117.0906
Strip Mall	12.46	2.5293	0.1495	0.0000	6.2662
Total		**49.7917**	**2.9426**	**0.0000**	**123.3567**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 7

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	246.50	1000sqft	0.38	246,499.00	0
General Office Building	3.85	1000sqft	0.01	3,853.00	0
Enclosed Parking with Elevator	801.00	Space	7.21	320,400.00	0
Strip Mall	11.87	1000sqft	0.02	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2033
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND's model. See SWAPE comment on parking

Demolition - Consistent with the IS/MND's model.

Grading - Consistent with information provided in the IS/MND.

Trips and VMT - Consistent with changes in the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	59,000.00
tblLandUse	LandUseSquareFeet	246,500.00	246,499.00
tblLandUse	LandUseSquareFeet	3,850.00	3,853.00
tblLandUse	LotAcreage	5.66	0.38
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.27	0.02
tblTripsAndVMT	HaulingTripNumber	132.00	332.00
tblTripsAndVMT	HaulingTripNumber	5,834.00	10,208.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2031	3.9938	78.9571	42.4085	0.3927	18.2675	0.4376	18.7051	9.9840	0.4375	10.4216	0.0000	42,508.2073	42,508.2073	2.7974	0.0000	42,578.1421
2032	126.2210	14.2661	21.7387	0.0703	3.0447	0.3314	3.2098	0.8212	0.3313	0.9853	0.0000	7,000.9920	7,000.9920	0.2614	0.0000	7,007.5277
Maximum	**126.2210**	**78.9571**	**42.4085**	**0.3927**	**18.2675**	**0.4376**	**18.7051**	**9.9840**	**0.4375**	**10.4216**	**0.0000**	**42,508.2073**	**42,508.2073**	**2.7974**	**0.0000**	**42,578.1421**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2031	3.9938	78.9571	42.4085	0.3927	18.2675	0.4376	18.7051	9.9840	0.4375	10.4216	0.0000	42,508.2073	42,508.2073	2.7974	0.0000	42,578.1421
2032	126.2210	14.2661	21.7387	0.0703	3.0447	0.3314	3.2098	0.8212	0.3313	0.9853	0.0000	7,000.9920	7,000.9920	0.2614	0.0000	7,007.5277
Maximum	**126.2210**	**78.9571**	**42.4085**	**0.3927**	**18.2675**	**0.4376**	**18.7051**	**9.9840**	**0.4375**	**10.4216**	**0.0000**	**42,508.2073**	**42,508.2073**	**2.7974**	**0.0000**	**42,578.1421**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.0058	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Energy	0.0776	0.7053	0.5924	4.2300e-003		0.0536	0.0536		0.0536	0.0536		846.2953	846.2953	0.0162	0.0155	851.3244
Mobile	3.1583	17.0669	39.8417	0.2001	21.0281	0.1044	21.1325	5.6233	0.0970	5.7203		20,528.5468	20,528.5468	0.7718		20,547.8427
Total	**9.2417**	**17.7731**	**40.5421**	**0.2043**	**21.0281**	**0.1584**	**21.1864**	**5.6233**	**0.1509**	**5.7742**		**21,375.0748**	**21,375.0748**	**0.7887**	**0.0155**	**21,399.4148**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.0058	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Energy	0.0776	0.7053	0.5924	4.2300e-003		0.0536	0.0536		0.0536	0.0536		846.2953	846.2953	0.0162	0.0155	851.3244
Mobile	3.1583	17.0669	39.8417	0.2001	21.0281	0.1044	21.1325	5.6233	0.0970	5.7203		20,528.5468	20,528.5468	0.7718		20,547.8427
Total	**9.2417**	**17.7731**	**40.5421**	**0.2043**	**21.0281**	**0.1584**	**21.1864**	**5.6233**	**0.1509**	**5.7742**		**21,375.0748**	**21,375.0748**	**0.7887**	**0.0155**	**21,399.4148**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/10/2031	7/7/2031	5	20	
2	Site Preparation	Site Preparation	7/8/2031	7/21/2031	5	10	
3	Grading	Grading	7/22/2031	8/18/2031	5	20	
4	Building Construction	Building Construction	8/19/2031	7/5/2032	5	230	
5	Paving	Paving	7/6/2032	8/2/2032	5	20	
6	Architectural Coating	Architectural Coating	8/3/2032	8/30/2032	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 7.21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 393,333; Non-Residential Outdoor: 131,111; Striped Parking Area: 19,224 (Architectural Coating – sqft)

OffRoad Equipment

Warner Center Phase 7 - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	332.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10,208.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	218.00	95.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4273	0.0000	1.4273	0.2161	0.0000	0.2161			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**1.4273**	**0.3511**	**1.7784**	**0.2161**	**0.3511**	**0.5672**		**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0761	2.3154	0.8999	0.0116	0.2900	4.2400e-003	0.2942	0.0795	4.0500e-003	0.0835		1,266.7236	1,266.7236	0.0863		1,268.8798
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0170	0.2873	1.2100e-003	0.1677	7.8000e-004	0.1684	0.0445	7.2000e-004	0.0452		120.5517	120.5517	1.8300e-003		120.5974
Total	**0.1111**	**2.3323**	**1.1872**	**0.0128**	**0.4576**	**5.0200e-003**	**0.4627**	**0.1239**	**4.7700e-003**	**0.1287**		**1,387.2753**	**1,387.2753**	**0.0881**		**1,389.4773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4273	0.0000	1.4273	0.2161	0.0000	0.2161			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**1.4273**	**0.3511**	**1.7784**	**0.2161**	**0.3511**	**0.5672**	**0.0000**	**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0761	2.3154	0.8999	0.0116	0.2900	4.2400e-003	0.2942	0.0795	4.0500e-003	0.0835		1,266.7236	1,266.7236	0.0863		1,268.8798
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0170	0.2873	1.2100e-003	0.1677	7.8000e-004	0.1684	0.0445	7.2000e-004	0.0452		120.5517	120.5517	1.8300e-003		120.5974
Total	**0.1111**	**2.3323**	**1.1872**	**0.0128**	**0.4576**	**5.0200e-003**	**0.4627**	**0.1239**	**4.7700e-003**	**0.1287**		**1,387.2753**	**1,387.2753**	**0.0881**		**1,389.4773**

3.3 Site Preparation - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0420	0.0203	0.3447	1.4500e-003	0.2012	9.3000e-004	0.2021	0.0534	8.6000e-004	0.0542		144.6621	144.6621	2.1900e-003		144.7169
Total	**0.0420**	**0.0203**	**0.3447**	**1.4500e-003**	**0.2012**	**9.3000e-004**	**0.2021**	**0.0534**	**8.6000e-004**	**0.0542**		**144.6621**	**144.6621**	**2.1900e-003**		**144.7169**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0420	0.0203	0.3447	1.4500e-003	0.2012	9.3000e-004	0.2021	0.0534	8.6000e-004	0.0542		144.6621	144.6621	2.1900e-003		144.7169
Total	**0.0420**	**0.0203**	**0.3447**	**1.4500e-003**	**0.2012**	**9.3000e-004**	**0.2021**	**0.0534**	**8.6000e-004**	**0.0542**		**144.6621**	**144.6621**	**2.1900e-003**		**144.7169**

3.4 Grading - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.7201	3,439.7201	0.1437		3,443.3117
Total	**1.6179**	**7.7501**	**14.4518**	**0.0363**	**6.5523**	**0.2340**	**6.7864**	**3.3675**	**0.2340**	**3.6015**		**3,439.7201**	**3,439.7201**	**0.1437**		**3,443.3117**

3.4 Grading - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3409	71.1900	27.6694	0.3552	8.9157	0.1303	9.0460	2.4431	0.1247	2.5678		38,947.9355	38,947.9355	2.6519		39,014.2329
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0170	0.2873	1.2100e-003	0.1677	7.8000e-004	0.1684	0.0445	7.2000e-004	0.0452		120.5517	120.5517	1.8300e-003		120.5974
Total	**2.3759**	**71.2070**	**27.9567**	**0.3564**	**9.0834**	**0.1311**	**9.2145**	**2.4876**	**0.1254**	**2.6129**		**39,068.4872**	**39,068.4872**	**2.6537**		**39,134.8304**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.7201	3,439.7201	0.1437		3,443.3117
Total	**1.6179**	**7.7501**	**14.4518**	**0.0363**	**6.5523**	**0.2340**	**6.7864**	**3.3675**	**0.2340**	**3.6015**	**0.0000**	**3,439.7201**	**3,439.7201**	**0.1437**		**3,443.3117**

3.4 Grading - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3409	71.1900	27.6694	0.3552	8.9157	0.1303	9.0460	2.4431	0.1247	2.5678		38,947.9355	38,947.9355	2.6519		39,014.2329
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0170	0.2873	1.2100e-003	0.1677	7.8000e-004	0.1684	0.0445	7.2000e-004	0.0452		120.5517	120.5517	1.8300e-003		120.5974
Total	**2.3759**	**71.2070**	**27.9567**	**0.3564**	**9.0834**	**0.1311**	**9.2145**	**2.4876**	**0.1254**	**2.6129**		**39,068.4872**	**39,068.4872**	**2.6537**		**39,134.8304**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1610	6.1461	1.6570	0.0222	0.6079	6.5800e-003	0.6145	0.1750	6.2900e-003	0.1813		2,391.4715	2,391.4715	0.1219		2,394.5179
Worker	0.5084	0.2463	4.1752	0.0176	2.4367	0.0113	2.4480	0.6462	0.0104	0.6566		1,752.0183	1,752.0183	0.0266		1,752.6827
Total	**0.6695**	**6.3924**	**5.8321**	**0.0398**	**3.0447**	**0.0179**	**3.0625**	**0.8212**	**0.0167**	**0.8379**		**4,143.4898**	**4,143.4898**	**0.1484**		**4,147.2005**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1610	6.1461	1.6570	0.0222	0.6079	6.5800e-003	0.6145	0.1750	6.2900e-003	0.1813		2,391.4715	2,391.4715	0.1219		2,394.5179
Worker	0.5084	0.2463	4.1752	0.0176	2.4367	0.0113	2.4480	0.6462	0.0104	0.6566		1,752.0183	1,752.0183	0.0266		1,752.6827
Total	**0.6695**	**6.3924**	**5.8321**	**0.0398**	**3.0447**	**0.0179**	**3.0625**	**0.8212**	**0.0167**	**0.8379**		**4,143.4898**	**4,143.4898**	**0.1484**		**4,147.2005**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1596	6.1055	1.6496	0.0222	0.6079	6.5000e-003	0.6144	0.1750	6.2100e-003	0.1812		2,386.4416	2,386.4416	0.1208		2,389.4621
Worker	0.4715	0.2260	3.9321	0.0172	2.4367	0.0105	2.4473	0.6462	9.7000e-003	0.6559		1,717.0036	1,717.0036	0.0244		1,717.6128
Total	**0.6311**	**6.3315**	**5.5817**	**0.0394**	**3.0447**	**0.0170**	**3.0617**	**0.8212**	**0.0159**	**0.8372**		**4,103.4453**	**4,103.4453**	**0.1452**		**4,107.0749**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1596	6.1055	1.6496	0.0222	0.6079	6.5000e-003	0.6144	0.1750	6.2100e-003	0.1812		2,386.4416	2,386.4416	0.1208		2,389.4621
Worker	0.4715	0.2260	3.9321	0.0172	2.4367	0.0105	2.4473	0.6462	9.7000e-003	0.6559		1,717.0036	1,717.0036	0.0244		1,717.6128
Total	**0.6311**	**6.3315**	**5.5817**	**0.0394**	**3.0447**	**0.0170**	**3.0617**	**0.8212**	**0.0159**	**0.8372**		**4,103.4453**	**4,103.4453**	**0.1452**		**4,107.0749**

3.6 Paving - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3845**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0324	0.0156	0.2706	1.1800e-003	0.1677	7.3000e-004	0.1684	0.0445	6.7000e-004	0.0451		118.1425	118.1425	1.6800e-003		118.1844
Total	**0.0324**	**0.0156**	**0.2706**	**1.1800e-003**	**0.1677**	**7.3000e-004**	**0.1684**	**0.0445**	**6.7000e-004**	**0.0451**		**118.1425**	**118.1425**	**1.6800e-003**		**118.1844**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3845**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0324	0.0156	0.2706	1.1800e-003	0.1677	7.3000e-004	0.1684	0.0445	6.7000e-004	0.0451		118.1425	118.1425	1.6800e-003		118.1844
Total	**0.0324**	**0.0156**	**0.2706**	**1.1800e-003**	**0.1677**	**7.3000e-004**	**0.1684**	**0.0445**	**6.7000e-004**	**0.0451**		**118.1425**	**118.1425**	**1.6800e-003**		**118.1844**

3.7 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	125.9951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**126.1258**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0456	0.7936	3.4700e-003	0.4918	2.1300e-003	0.4939	0.1304	1.9600e-003	0.1324		346.5512	346.5512	4.9200e-003		346.6741
Total	**0.0952**	**0.0456**	**0.7936**	**3.4700e-003**	**0.4918**	**2.1300e-003**	**0.4939**	**0.1304**	**1.9600e-003**	**0.1324**		**346.5512**	**346.5512**	**4.9200e-003**		**346.6741**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	125.9951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**126.1258**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0456	0.7936	3.4700e-003	0.4918	2.1300e-003	0.4939	0.1304	1.9600e-003	0.1324		346.5512	346.5512	4.9200e-003		346.6741
Total	**0.0952**	**0.0456**	**0.7936**	**3.4700e-003**	**0.4918**	**2.1300e-003**	**0.4939**	**0.1304**	**1.9600e-003**	**0.1324**		**346.5512**	**346.5512**	**4.9200e-003**		**346.6741**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1583	17.0669	39.8417	0.2001	21.0281	0.1044	21.1325	5.6233	0.0970	5.7203		20,528.5468	20,528.5468	0.7718		20,547.8427
Unmitigated	3.1583	17.0669	39.8417	0.2001	21.0281	0.1044	21.1325	5.6233	0.0970	5.7203		20,528.5468	20,528.5468	0.7718		20,547.8427

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	2,718.90	606.39	258.83	6,654,475	6,654,475
General Office Building	42.47	9.47	4.04	103,934	103,934
Strip Mall	526.08	499.01	242.50	916,483	916,483
Total	3,287.44	1,114.88	505.37	7,674,892	7,674,892

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741
General Office Building	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741
Strip Mall	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0776	0.7053	0.5924	4.2300e-003		0.0536	0.0536		0.0536	0.0536		846.2953	846.2953	0.0162	0.0155	851.3244
NaturalGas Unmitigated	0.0776	0.7053	0.5924	4.2300e-003		0.0536	0.0536		0.0536	0.0536		846.2953	846.2953	0.0162	0.0155	851.3244

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	109.89	1.1900e-003	0.0108	9.0500e-003	6.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004		12.9282	12.9282	2.5000e-004	2.4000e-004	13.0050
General Office Building	7030.29	0.0758	0.6892	0.5790	4.1400e-003		0.0524	0.0524		0.0524	0.0524		827.0925	827.0925	0.0159	0.0152	832.0075
Strip Mall	53.3337	5.8000e-004	5.2300e-003	4.3900e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.2746	6.2746	1.2000e-004	1.2000e-004	6.3118
Total		**0.0776**	**0.7052**	**0.5924**	**4.2300e-003**		**0.0536**	**0.0536**		**0.0536**	**0.0536**		**846.2953**	**846.2953**	**0.0162**	**0.0155**	**851.3244**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.10989	1.1900e-003	0.0108	9.0500e-003	6.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004		12.9282	12.9282	2.5000e-004	2.4000e-004	13.0050
General Office Building	7.03029	0.0758	0.6892	0.5790	4.1400e-003		0.0524	0.0524		0.0524	0.0524		827.0925	827.0925	0.0159	0.0152	832.0075
Strip Mall	0.0533337	5.8000e-004	5.2300e-003	4.3900e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.2746	6.2746	1.2000e-004	1.2000e-004	6.3118
Total		**0.0776**	**0.7052**	**0.5924**	**4.2300e-003**		**0.0536**	**0.0536**		**0.0536**	**0.0536**		**846.2953**	**846.2953**	**0.0162**	**0.0155**	**851.3244**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.0058	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Unmitigated	6.0058	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3055					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.8800e-003	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Total	**6.0057**	**9.7000e-004**	**0.1080**	**1.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**		**0.2327**	**0.2327**	**6.0000e-004**		**0.2477**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3055					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.8800e-003	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Total	**6.0057**	**9.7000e-004**	**0.1080**	**1.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**		**0.2327**	**0.2327**	**6.0000e-004**		**0.2477**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 7

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	246.50	1000sqft	0.38	246,499.00	0
General Office Building	3.85	1000sqft	0.01	3,853.00	0
Enclosed Parking with Elevator	801.00	Space	7.21	320,400.00	0
Strip Mall	11.87	1000sqft	0.02	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2033
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND's model. See SWAPE comment on parking

Demolition - Consistent with the IS/MND's model.

Grading - Consistent with information provided in the IS/MND.

Trips and VMT - Consistent with changes in the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	59,000.00
tblLandUse	LandUseSquareFeet	246,500.00	246,499.00
tblLandUse	LandUseSquareFeet	3,850.00	3,853.00
tblLandUse	LotAcreage	5.66	0.38
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.27	0.02
tblTripsAndVMT	HaulingTripNumber	132.00	332.00
tblTripsAndVMT	HaulingTripNumber	5,834.00	10,208.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2031	4.0562	79.3631	43.4896	0.3868	18.2675	0.4376	18.7051	9.9840	0.4375	10.4216	0.0000	41,855.2256	41,855.2256	2.8625	0.0000	41,926.7888
2032	126.2334	14.2547	21.4604	0.0687	3.0447	0.3314	3.2100	0.8212	0.3313	0.9854	0.0000	6,830.8739	6,830.8739	0.2660	0.0000	6,837.5239
Maximum	**126.2334**	**79.3631**	**43.4896**	**0.3868**	**18.2675**	**0.4376**	**18.7051**	**9.9840**	**0.4375**	**10.4216**	**0.0000**	**41,855.2256**	**41,855.2256**	**2.8625**	**0.0000**	**41,926.7888**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2031	4.0562	79.3631	43.4896	0.3868	18.2675	0.4376	18.7051	9.9840	0.4375	10.4216	0.0000	41,855.2256	41,855.2256	2.8625	0.0000	41,926.7888
2032	126.2334	14.2547	21.4604	0.0687	3.0447	0.3314	3.2100	0.8212	0.3313	0.9854	0.0000	6,830.8739	6,830.8739	0.2660	0.0000	6,837.5239
Maximum	**126.2334**	**79.3631**	**43.4896**	**0.3868**	**18.2675**	**0.4376**	**18.7051**	**9.9840**	**0.4375**	**10.4216**	**0.0000**	**41,855.2256**	**41,855.2256**	**2.8625**	**0.0000**	**41,926.7888**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.0058	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Energy	0.0776	0.7053	0.5924	4.2300e-003		0.0536	0.0536		0.0536	0.0536		846.2953	846.2953	0.0162	0.0155	851.3244
Mobile	3.0190	17.2107	37.5462	0.1902	21.0281	0.1047	21.1328	5.6233	0.0972	5.7205		19,526.5982	19,526.5982	0.7788		19,546.0686
Total	**9.1023**	**17.9169**	**38.2466**	**0.1944**	**21.0281**	**0.1586**	**21.1867**	**5.6233**	**0.1512**	**5.7745**		**20,373.1261**	**20,373.1261**	**0.7956**	**0.0155**	**20,397.6407**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.0058	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Energy	0.0776	0.7053	0.5924	4.2300e-003		0.0536	0.0536		0.0536	0.0536		846.2953	846.2953	0.0162	0.0155	851.3244
Mobile	3.0190	17.2107	37.5462	0.1902	21.0281	0.1047	21.1328	5.6233	0.0972	5.7205		19,526.5982	19,526.5982	0.7788		19,546.0686
Total	**9.1023**	**17.9169**	**38.2466**	**0.1944**	**21.0281**	**0.1586**	**21.1867**	**5.6233**	**0.1512**	**5.7745**		**20,373.1261**	**20,373.1261**	**0.7956**	**0.0155**	**20,397.6407**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/10/2031	7/7/2031	5	20	
2	Site Preparation	Site Preparation	7/8/2031	7/21/2031	5	10	
3	Grading	Grading	7/22/2031	8/18/2031	5	20	
4	Building Construction	Building Construction	8/19/2031	7/5/2032	5	230	
5	Paving	Paving	7/6/2032	8/2/2032	5	20	
6	Architectural Coating	Architectural Coating	8/3/2032	8/30/2032	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 7.21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 393,333; Non-Residential Outdoor: 131,111; Striped Parking Area: 19,224 (Architectural Coating – sqft)

OffRoad Equipment

Warner Center Phase 7 - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	332.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10,208.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	218.00	95.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4273	0.0000	1.4273	0.2161	0.0000	0.2161			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**1.4273**	**0.3511**	**1.7784**	**0.2161**	**0.3511**	**0.5672**		**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0780	2.3285	0.9361	0.0114	0.2900	4.2900e-003	0.2943	0.0795	4.1000e-003	0.0836		1,245.7325	1,245.7325	0.0884		1,247.9418
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0185	0.2563	1.1300e-003	0.1677	7.8000e-004	0.1684	0.0445	7.2000e-004	0.0452		112.9844	112.9844	1.7000e-003		113.0268
Total	**0.1175**	**2.3470**	**1.1924**	**0.0125**	**0.4576**	**5.0700e-003**	**0.4627**	**0.1239**	**4.8200e-003**	**0.1287**		**1,358.7169**	**1,358.7169**	**0.0901**		**1,360.9686**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4273	0.0000	1.4273	0.2161	0.0000	0.2161			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**1.4273**	**0.3511**	**1.7784**	**0.2161**	**0.3511**	**0.5672**	**0.0000**	**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0780	2.3285	0.9361	0.0114	0.2900	4.2900e-003	0.2943	0.0795	4.1000e-003	0.0836		1,245.7325	1,245.7325	0.0884		1,247.9418
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0185	0.2563	1.1300e-003	0.1677	7.8000e-004	0.1684	0.0445	7.2000e-004	0.0452		112.9844	112.9844	1.7000e-003		113.0268
Total	**0.1175**	**2.3470**	**1.1924**	**0.0125**	**0.4576**	**5.0700e-003**	**0.4627**	**0.1239**	**4.8200e-003**	**0.1287**		**1,358.7169**	**1,358.7169**	**0.0901**		**1,360.9686**

3.3 Site Preparation - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0474	0.0223	0.3076	1.3600e-003	0.2012	9.3000e-004	0.2021	0.0534	8.6000e-004	0.0542		135.5813	135.5813	2.0400e-003		135.6322
Total	**0.0474**	**0.0223**	**0.3076**	**1.3600e-003**	**0.2012**	**9.3000e-004**	**0.2021**	**0.0534**	**8.6000e-004**	**0.0542**		**135.5813**	**135.5813**	**2.0400e-003**		**135.6322**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0474	0.0223	0.3076	1.3600e-003	0.2012	9.3000e-004	0.2021	0.0534	8.6000e-004	0.0542		135.5813	135.5813	2.0400e-003		135.6322
Total	**0.0474**	**0.0223**	**0.3076**	**1.3600e-003**	**0.2012**	**9.3000e-004**	**0.2021**	**0.0534**	**8.6000e-004**	**0.0542**		**135.5813**	**135.5813**	**2.0400e-003**		**135.6322**

3.4 Grading - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.7201	3,439.7201	0.1437		3,443.3117
Total	**1.6179**	**7.7501**	**14.4518**	**0.0363**	**6.5523**	**0.2340**	**6.7864**	**3.3675**	**0.2340**	**3.6015**		**3,439.7201**	**3,439.7201**	**0.1437**		**3,443.3117**

3.4 Grading - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3988	71.5944	28.7815	0.3493	8.9157	0.1319	9.0476	2.4431	0.1261	2.5692		38,302.5210	38,302.5210	2.7172		38,370.4502
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0185	0.2563	1.1300e-003	0.1677	7.8000e-004	0.1684	0.0445	7.2000e-004	0.0452		112.9844	112.9844	1.7000e-003		113.0268
Total	**2.4383**	**71.6130**	**29.0379**	**0.3505**	**9.0834**	**0.1326**	**9.2160**	**2.4876**	**0.1269**	**2.6144**		**38,415.5054**	**38,415.5054**	**2.7189**		**38,483.4770**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.7201	3,439.7201	0.1437		3,443.3117
Total	**1.6179**	**7.7501**	**14.4518**	**0.0363**	**6.5523**	**0.2340**	**6.7864**	**3.3675**	**0.2340**	**3.6015**	**0.0000**	**3,439.7201**	**3,439.7201**	**0.1437**		**3,443.3117**

3.4 Grading - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3988	71.5944	28.7815	0.3493	8.9157	0.1319	9.0476	2.4431	0.1261	2.5692		38,302.5210	38,302.5210	2.7172		38,370.4502
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0185	0.2563	1.1300e-003	0.1677	7.8000e-004	0.1684	0.0445	7.2000e-004	0.0452		112.9844	112.9844	1.7000e-003		113.0268
Total	**2.4383**	**71.6130**	**29.0379**	**0.3505**	**9.0834**	**0.1326**	**9.2160**	**2.4876**	**0.1269**	**2.6144**		**38,415.5054**	**38,415.5054**	**2.7189**		**38,483.4770**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1690	6.1140	1.8089	0.0216	0.6079	6.7300e-003	0.6147	0.1750	6.4300e-003	0.1814		2,329.2518	2,329.2518	0.1283		2,332.4603
Worker	0.5741	0.2695	3.7254	0.0165	2.4367	0.0113	2.4480	0.6462	0.0104	0.6566		1,642.0405	1,642.0405	0.0247		1,642.6568
Total	**0.7431**	**6.3834**	**5.5343**	**0.0381**	**3.0447**	**0.0180**	**3.0627**	**0.8212**	**0.0168**	**0.8381**		**3,971.2923**	**3,971.2923**	**0.1530**		**3,975.1171**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1690	6.1140	1.8089	0.0216	0.6079	6.7300e-003	0.6147	0.1750	6.4300e-003	0.1814		2,329.2518	2,329.2518	0.1283		2,332.4603
Worker	0.5741	0.2695	3.7254	0.0165	2.4367	0.0113	2.4480	0.6462	0.0104	0.6566		1,642.0405	1,642.0405	0.0247		1,642.6568
Total	**0.7431**	**6.3834**	**5.5343**	**0.0381**	**3.0447**	**0.0180**	**3.0627**	**0.8212**	**0.0168**	**0.8381**		**3,971.2923**	**3,971.2923**	**0.1530**		**3,975.1171**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1674	6.0731	1.8009	0.0216	0.6079	6.6300e-003	0.6146	0.1750	6.3300e-003	0.1813		2,324.3236	2,324.3236	0.1272		2,327.5031
Worker	0.5332	0.2470	3.5026	0.0161	2.4367	0.0105	2.4473	0.6462	9.7000e-003	0.6559		1,609.0035	1,609.0035	0.0226		1,609.5680
Total	**0.7006**	**6.3201**	**5.3034**	**0.0377**	**3.0447**	**0.0172**	**3.0618**	**0.8212**	**0.0160**	**0.8373**		**3,933.3272**	**3,933.3272**	**0.1498**		**3,937.0711**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1674	6.0731	1.8009	0.0216	0.6079	6.6300e-003	0.6146	0.1750	6.3300e-003	0.1813		2,324.3236	2,324.3236	0.1272		2,327.5031
Worker	0.5332	0.2470	3.5026	0.0161	2.4367	0.0105	2.4473	0.6462	9.7000e-003	0.6559		1,609.0035	1,609.0035	0.0226		1,609.5680
Total	**0.7006**	**6.3201**	**5.3034**	**0.0377**	**3.0447**	**0.0172**	**3.0618**	**0.8212**	**0.0160**	**0.8373**		**3,933.3272**	**3,933.3272**	**0.1498**		**3,937.0711**

3.6 Paving - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3845**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0367	0.0170	0.2410	1.1100e-003	0.1677	7.3000e-004	0.1684	0.0445	6.7000e-004	0.0451		110.7113	110.7113	1.5500e-003		110.7501
Total	**0.0367**	**0.0170**	**0.2410**	**1.1100e-003**	**0.1677**	**7.3000e-004**	**0.1684**	**0.0445**	**6.7000e-004**	**0.0451**		**110.7113**	**110.7113**	**1.5500e-003**		**110.7501**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3845**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0367	0.0170	0.2410	1.1100e-003	0.1677	7.3000e-004	0.1684	0.0445	6.7000e-004	0.0451		110.7113	110.7113	1.5500e-003		110.7501
Total	**0.0367**	**0.0170**	**0.2410**	**1.1100e-003**	**0.1677**	**7.3000e-004**	**0.1684**	**0.0445**	**6.7000e-004**	**0.0451**		**110.7113**	**110.7113**	**1.5500e-003**		**110.7501**

3.7 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	125.9951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**126.1258**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0499	0.7069	3.2500e-003	0.4918	2.1300e-003	0.4939	0.1304	1.9600e-003	0.1324		324.7530	324.7530	4.5600e-003		324.8669
Total	**0.1076**	**0.0499**	**0.7069**	**3.2500e-003**	**0.4918**	**2.1300e-003**	**0.4939**	**0.1304**	**1.9600e-003**	**0.1324**		**324.7530**	**324.7530**	**4.5600e-003**		**324.8669**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	125.9951					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**126.1258**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1076	0.0499	0.7069	3.2500e-003	0.4918	2.1300e-003	0.4939	0.1304	1.9600e-003	0.1324		324.7530	324.7530	4.5600e-003		324.8669
Total	**0.1076**	**0.0499**	**0.7069**	**3.2500e-003**	**0.4918**	**2.1300e-003**	**0.4939**	**0.1304**	**1.9600e-003**	**0.1324**		**324.7530**	**324.7530**	**4.5600e-003**		**324.8669**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.0190	17.2107	37.5462	0.1902	21.0281	0.1047	21.1328	5.6233	0.0972	5.7205		19,526.5982	19,526.5982	0.7788		19,546.0686
Unmitigated	3.0190	17.2107	37.5462	0.1902	21.0281	0.1047	21.1328	5.6233	0.0972	5.7205		19,526.5982	19,526.5982	0.7788		19,546.0686

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	2,718.90	606.39	258.83	6,654,475	6,654,475
General Office Building	42.47	9.47	4.04	103,934	103,934
Strip Mall	526.08	499.01	242.50	916,483	916,483
Total	3,287.44	1,114.88	505.37	7,674,892	7,674,892

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741
General Office Building	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741
Strip Mall	0.554504	0.041401	0.206771	0.110778	0.012413	0.005777	0.022517	0.035896	0.002189	0.001441	0.004853	0.000717	0.000741

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0776	0.7053	0.5924	4.2300e-003		0.0536	0.0536		0.0536	0.0536		846.2953	846.2953	0.0162	0.0155	851.3244
NaturalGas Unmitigated	0.0776	0.7053	0.5924	4.2300e-003		0.0536	0.0536		0.0536	0.0536		846.2953	846.2953	0.0162	0.0155	851.3244

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	109.89	1.1900e-003	0.0108	9.0500e-003	6.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004		12.9282	12.9282	2.5000e-004	2.4000e-004	13.0050
General Office Building	7030.29	0.0758	0.6892	0.5790	4.1400e-003		0.0524	0.0524		0.0524	0.0524		827.0925	827.0925	0.0159	0.0152	832.0075
Strip Mall	53.3337	5.8000e-004	5.2300e-003	4.3900e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.2746	6.2746	1.2000e-004	1.2000e-004	6.3118
Total		**0.0776**	**0.7052**	**0.5924**	**4.2300e-003**		**0.0536**	**0.0536**		**0.0536**	**0.0536**		**846.2953**	**846.2953**	**0.0162**	**0.0155**	**851.3244**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.10989	1.1900e-003	0.0108	9.0500e-003	6.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004		12.9282	12.9282	2.5000e-004	2.4000e-004	13.0050
General Office Building	7.03029	0.0758	0.6892	0.5790	4.1400e-003		0.0524	0.0524		0.0524	0.0524		827.0925	827.0925	0.0159	0.0152	832.0075
Strip Mall	0.0533337	5.8000e-004	5.2300e-003	4.3900e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.2746	6.2746	1.2000e-004	1.2000e-004	6.3118
Total		**0.0776**	**0.7052**	**0.5924**	**4.2300e-003**		**0.0536**	**0.0536**		**0.0536**	**0.0536**		**846.2953**	**846.2953**	**0.0162**	**0.0155**	**851.3244**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.0058	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Unmitigated	6.0058	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3055					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.8800e-003	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Total	**6.0057**	**9.7000e-004**	**0.1080**	**1.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**		**0.2327**	**0.2327**	**6.0000e-004**		**0.2477**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3055					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.8800e-003	9.7000e-004	0.1080	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2327	0.2327	6.0000e-004		0.2477
Total	**6.0057**	**9.7000e-004**	**0.1080**	**1.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**		**0.2327**	**0.2327**	**6.0000e-004**		**0.2477**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 8

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	421.05	1000sqft	0.80	412,051.00	0
General Office Building	8.08	1000sqft	0.01	8,077.00	0
Enclosed Parking with Elevator	1,373.00	Space	12.36	549,200.00	0
Parking Lot	11.00	Space	0.10	4,400.00	0
Health Club	4.07	1000sqft	0.01	4,068.00	0
High Turnover (Sit Down Restaurant)	4.90	1000sqft	0.01	4,897.00	0
High Turnover (Sit Down Restaurant)	3.94	1000sqft	0.01	3,942.00	0
Strip Mall	15.74	1000sqft	0.03	15,741.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND's model. See SWAPE comment about parking.

Grading - Consistent with information provided by the IS/MND.

Demolition - Consistent with the IS/MND's model.

Trips and VMT - Consistent with the IS/MND's model.

Architectural Coating - Consistent with the IS/MND's model.

Fleet Mix - Consistent with the IS/MND's model.

Area Coating - Consistent with the IS/MND's model.

Water And Wastewater - Consistent with IS/MND's model.

Solid Waste - Consistent with the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	224,388.00	227,169.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	673,164.00	681,506.00
tblAreaCoating	Area_Nonresidential_Exterior	224388	227169
tblAreaCoating	Area_Nonresidential_Interior	673164	681506
tblGrading	MaterialExported	0.00	87,000.00
tblLandUse	LandUseSquareFeet	421,050.00	412,051.00
tblLandUse	LandUseSquareFeet	8,080.00	8,077.00
tblLandUse	LandUseSquareFeet	4,070.00	4,068.00
tblLandUse	LandUseSquareFeet	4,900.00	4,897.00
tblLandUse	LandUseSquareFeet	3,940.00	3,942.00
tblLandUse	LandUseSquareFeet	15,740.00	15,741.00
tblLandUse	LotAcreage	9.67	0.80
tblLandUse	LotAcreage	0.19	0.01
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.11	0.01
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.36	0.03
tblSolidWaste	SolidWasteGenerationRate	105.20	112.69
tblTripsAndVMT	HaulingTripNumber	350.00	887.00
tblTripsAndVMT	HaulingTripNumber	8,602.00	16,348.00
tblWater	IndoorWaterUseRate	2,683,238.02	2,874,464.26
tblWater	OutdoorWaterUseRate	171,270.51	183,476.44

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2032	0.1580	1.8660	1.4697	9.1300e-003	0.4873	0.0178	0.5051	0.1718	0.0177	0.1895	0.0000	881.2517	881.2517	0.0524	0.0000	882.5624
2033	0.3059	2.4581	3.2544	0.0126	0.6721	0.0229	0.6950	0.1816	0.0227	0.2043	0.0000	1,148.8289	1,148.8289	0.0430	0.0000	1,149.9041
2034	2.2125	0.1842	0.3256	9.0000e-004	0.0383	4.5100e-003	0.0428	0.0103	4.5000e-003	0.0148	0.0000	80.9249	80.9249	3.1000e-003	0.0000	81.0025
Maximum	**2.2125**	**2.4581**	**3.2544**	**0.0126**	**0.6721**	**0.0229**	**0.6950**	**0.1816**	**0.0227**	**0.2043**	**0.0000**	**1,148.8289**	**1,148.8289**	**0.0524**	**0.0000**	**1,149.9041**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2032	0.1580	1.8660	1.4697	9.1300e-003	0.4873	0.0178	0.5051	0.1718	0.0177	0.1895	0.0000	881.2514	881.2514	0.0524	0.0000	882.5622
2033	0.3059	2.4581	3.2544	0.0126	0.6721	0.0229	0.6950	0.1816	0.0227	0.2043	0.0000	1,148.8285	1,148.8285	0.0430	0.0000	1,149.9037
2034	2.2125	0.1842	0.3256	9.0000e-004	0.0383	4.5100e-003	0.0428	0.0103	4.5000e-003	0.0148	0.0000	80.9249	80.9249	3.1000e-003	0.0000	81.0025
Maximum	**2.2125**	**2.4581**	**3.2544**	**0.0126**	**0.6721**	**0.0229**	**0.6950**	**0.1816**	**0.0227**	**0.2043**	**0.0000**	**1,148.8285**	**1,148.8285**	**0.0524**	**0.0000**	**1,149.9037**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**8-31-2032**	**11-29-2032**	1.7466	1.7466
2	**11-30-2032**	**2-27-2033**	0.6835	0.6835
3	**2-28-2033**	**5-30-2033**	0.6949	0.6949
4	**5-31-2033**	**8-30-2033**	0.6938	0.6938
5	**8-31-2033**	**11-29-2033**	0.6882	0.6882
6	**11-30-2033**	**2-27-2034**	1.5459	1.5459
7	**2-28-2034**	**5-30-2034**	1.0975	1.0975
		Highest	1.7466	1.7466

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.8779	2.1000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0457	0.0457	1.2000e-004	0.0000	0.0487
Energy	0.0351	0.3193	0.2682	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	5,541.2774	5,541.2774	0.1293	0.0318	5,553.9722
Mobile	0.7927	5.0278	9.8507	0.0515	5.5658	0.0257	5.5914	1.4907	0.0238	1.5145	0.0000	4,806.4350	4,806.4350	0.1869	0.0000	4,811.1080
Waste						0.0000	0.0000		0.0000	0.0000	111.9516	0.0000	111.9516	6.6162	0.0000	277.3552
Water						0.0000	0.0000		0.0000	0.0000	25.5554	879.9096	905.4651	2.6456	0.0663	991.3547
Total	**2.7057**	**5.3473**	**10.1423**	**0.0535**	**5.5658**	**0.0500**	**5.6158**	**1.4907**	**0.0482**	**1.5388**	**137.5070**	**11,227.6678**	**11,365.1748**	**9.5781**	**0.0980**	**11,633.8388**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.8779	2.1000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0457	0.0457	1.2000e-004	0.0000	0.0487
Energy	0.0351	0.3193	0.2682	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	5,541.2774	5,541.2774	0.1293	0.0318	5,553.9722
Mobile	0.7927	5.0278	9.8507	0.0515	5.5658	0.0257	5.5914	1.4907	0.0238	1.5145	0.0000	4,806.4350	4,806.4350	0.1869	0.0000	4,811.1080
Waste						0.0000	0.0000		0.0000	0.0000	111.9516	0.0000	111.9516	6.6162	0.0000	277.3552
Water						0.0000	0.0000		0.0000	0.0000	25.5554	879.9096	905.4651	2.6456	0.0663	991.3547
Total	**2.7057**	**5.3473**	**10.1423**	**0.0535**	**5.5658**	**0.0500**	**5.6158**	**1.4907**	**0.0482**	**1.5388**	**137.5070**	**11,227.6678**	**11,365.1748**	**9.5781**	**0.0980**	**11,633.8388**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/31/2032	9/27/2032	5	20	
2	Site Preparation	Site Preparation	9/28/2032	10/11/2032	5	10	
3	Grading	Grading	10/12/2032	11/22/2032	5	30	
4	Building Construction	Building Construction	11/23/2032	1/16/2034	5	300	
5	Paving	Paving	1/17/2034	2/13/2034	5	20	
6	Architectural Coating	Architectural Coating	2/14/2034	3/13/2034	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 12.46

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 681,506; Non-Residential Outdoor: 227,169; Striped Parking Area: 33,216 (Architectural Coating – sqft)

OffRoad Equipment

Warner Center Phase 8 - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	887.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	16,348.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	377.00	164.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0379	0.0000	0.0379	5.7400e-003	0.0000	5.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.0978	0.1892	4.6000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	39.7218	39.7218	1.6800e-003	0.0000	39.7637
Total	**0.0208**	**0.0978**	**0.1892**	**4.6000e-004**	**0.0379**	**3.5100e-003**	**0.0414**	**5.7400e-003**	**3.5100e-003**	**9.2500e-003**	**0.0000**	**39.7218**	**39.7218**	**1.6800e-003**	**0.0000**	**39.7637**

3.2 Demolition - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0500e-003	0.0626	0.0245	3.1000e-004	7.6200e-003	1.1000e-004	7.7300e-003	2.0900e-003	1.1000e-004	2.2000e-003	0.0000	30.4058	30.4058	2.1000e-003	0.0000	30.4584
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.4800e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0203	1.0203	1.0000e-005	0.0000	1.0206
Total	**2.3800e-003**	**0.0628**	**0.0270**	**3.2000e-004**	**9.2700e-003**	**1.2000e-004**	**9.3800e-003**	**2.5300e-003**	**1.2000e-004**	**2.6400e-003**	**0.0000**	**31.4260**	**31.4260**	**2.1100e-003**	**0.0000**	**31.4790**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0379	0.0000	0.0379	5.7400e-003	0.0000	5.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.0978	0.1892	4.6000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	39.7218	39.7218	1.6800e-003	0.0000	39.7637
Total	**0.0208**	**0.0978**	**0.1892**	**4.6000e-004**	**0.0379**	**3.5100e-003**	**0.0414**	**5.7400e-003**	**3.5100e-003**	**9.2500e-003**	**0.0000**	**39.7218**	**39.7218**	**1.6800e-003**	**0.0000**	**39.7637**

3.2 Demolition - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0500e-003	0.0626	0.0245	3.1000e-004	7.6200e-003	1.1000e-004	7.7300e-003	2.0900e-003	1.1000e-004	2.2000e-003	0.0000	30.4058	30.4058	2.1000e-003	0.0000	30.4584
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.4800e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.0203	1.0203	1.0000e-005	0.0000	1.0206
Total	**2.3800e-003**	**0.0628**	**0.0270**	**3.2000e-004**	**9.2700e-003**	**1.2000e-004**	**9.3800e-003**	**2.5300e-003**	**1.2000e-004**	**2.6400e-003**	**0.0000**	**31.4260**	**31.4260**	**2.1100e-003**	**0.0000**	**31.4790**

3.3 Site Preparation - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0683	0.0815	2.3000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	20.0023	20.0023	9.9000e-004	0.0000	20.0270
Total	**0.0122**	**0.0683**	**0.0815**	**2.3000e-004**	**0.0903**	**2.1800e-003**	**0.0925**	**0.0497**	**2.1800e-003**	**0.0518**	**0.0000**	**20.0023**	**20.0023**	**9.9000e-004**	**0.0000**	**20.0270**

3.3 Site Preparation - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.4900e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.6122	0.6122	1.0000e-005	0.0000	0.6124
Total	**2.0000e-004**	**1.1000e-004**	**1.4900e-003**	**1.0000e-005**	**9.9000e-004**	**0.0000**	**9.9000e-004**	**2.6000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.6122**	**0.6122**	**1.0000e-005**	**0.0000**	**0.6124**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.0683	0.0815	2.3000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	20.0023	20.0023	9.9000e-004	0.0000	20.0270
Total	**0.0122**	**0.0683**	**0.0815**	**2.3000e-004**	**0.0903**	**2.1800e-003**	**0.0925**	**0.0497**	**2.1800e-003**	**0.0518**	**0.0000**	**20.0023**	**20.0023**	**9.9000e-004**	**0.0000**	**20.0270**

3.3 Site Preparation - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.4900e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.6122	0.6122	1.0000e-005	0.0000	0.6124
Total	**2.0000e-004**	**1.1000e-004**	**1.4900e-003**	**1.0000e-005**	**9.9000e-004**	**0.0000**	**9.9000e-004**	**2.6000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.6122**	**0.6122**	**1.0000e-005**	**0.0000**	**0.6124**

3.4 Grading - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0492	0.2077	0.3454	1.0500e-003		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003	0.0000	98.1543	98.1543	3.9700e-003	0.0000	98.2535
Total	**0.0492**	**0.2077**	**0.3454**	**1.0500e-003**	**0.1301**	**7.3200e-003**	**0.1374**	**0.0540**	**7.3200e-003**	**0.0613**	**0.0000**	**98.1543**	**98.1543**	**3.9700e-003**	**0.0000**	**98.2535**

3.4 Grading - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0377	1.1534	0.4522	5.6300e-003	0.1405	2.0700e-003	0.1426	0.0386	1.9800e-003	0.0405	0.0000	560.3983	560.3983	0.0388	0.0000	561.3679
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	3.5000e-004	4.9700e-003	2.0000e-005	3.2900e-003	1.0000e-005	3.3100e-003	8.7000e-004	1.0000e-005	8.9000e-004	0.0000	2.0405	2.0405	3.0000e-005	0.0000	2.0413
Total	**0.0383**	**1.1537**	**0.4572**	**5.6500e-003**	**0.1438**	**2.0800e-003**	**0.1459**	**0.0394**	**1.9900e-003**	**0.0414**	**0.0000**	**562.4388**	**562.4388**	**0.0388**	**0.0000**	**563.4091**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0492	0.2077	0.3454	1.0500e-003		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003	0.0000	98.1542	98.1542	3.9700e-003	0.0000	98.2534
Total	**0.0492**	**0.2077**	**0.3454**	**1.0500e-003**	**0.1301**	**7.3200e-003**	**0.1374**	**0.0540**	**7.3200e-003**	**0.0613**	**0.0000**	**98.1542**	**98.1542**	**3.9700e-003**	**0.0000**	**98.2534**

3.4 Grading - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0377	1.1534	0.4522	5.6300e-003	0.1405	2.0700e-003	0.1426	0.0386	1.9800e-003	0.0405	0.0000	560.3983	560.3983	0.0388	0.0000	561.3679
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	3.5000e-004	4.9700e-003	2.0000e-005	3.2900e-003	1.0000e-005	3.3100e-003	8.7000e-004	1.0000e-005	8.9000e-004	0.0000	2.0405	2.0405	3.0000e-005	0.0000	2.0413
Total	**0.0383**	**1.1537**	**0.4572**	**5.6500e-003**	**0.1438**	**2.0800e-003**	**0.1459**	**0.0394**	**1.9900e-003**	**0.0414**	**0.0000**	**562.4388**	**562.4388**	**0.0388**	**0.0000**	**563.4091**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0190	0.1151	0.2343	4.5000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	38.1149	38.1149	1.5300e-003	0.0000	38.1531
Total	**0.0190**	**0.1151**	**0.2343**	**4.5000e-004**		**2.1500e-003**	**2.1500e-003**		**2.1500e-003**	**2.1500e-003**	**0.0000**	**38.1149**	**38.1149**	**1.5300e-003**	**0.0000**	**38.1531**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0800e-003	0.1542	0.0433	5.5000e-004	0.0150	1.6000e-004	0.0152	4.3200e-003	1.6000e-004	4.4800e-003	0.0000	53.5995	53.5995	2.8100e-003	0.0000	53.6697
Worker	0.0119	6.3900e-003	0.0905	4.1000e-004	0.0600	2.6000e-004	0.0602	0.0159	2.4000e-004	0.0162	0.0000	37.1818	37.1818	5.2000e-004	0.0000	37.1949
Total	**0.0160**	**0.1606**	**0.1337**	**9.6000e-004**	**0.0750**	**4.2000e-004**	**0.0754**	**0.0203**	**4.0000e-004**	**0.0207**	**0.0000**	**90.7814**	**90.7814**	**3.3300e-003**	**0.0000**	**90.8646**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0190	0.1151	0.2343	4.5000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	38.1148	38.1148	1.5300e-003	0.0000	38.1530
Total	**0.0190**	**0.1151**	**0.2343**	**4.5000e-004**		**2.1500e-003**	**2.1500e-003**		**2.1500e-003**	**2.1500e-003**	**0.0000**	**38.1148**	**38.1148**	**1.5300e-003**	**0.0000**	**38.1530**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0800e-003	0.1542	0.0433	5.5000e-004	0.0150	1.6000e-004	0.0152	4.3200e-003	1.6000e-004	4.4800e-003	0.0000	53.5995	53.5995	2.8100e-003	0.0000	53.6697
Worker	0.0119	6.3900e-003	0.0905	4.1000e-004	0.0600	2.6000e-004	0.0602	0.0159	2.4000e-004	0.0162	0.0000	37.1818	37.1818	5.2000e-004	0.0000	37.1949
Total	**0.0160**	**0.1606**	**0.1337**	**9.6000e-004**	**0.0750**	**4.2000e-004**	**0.0754**	**0.0203**	**4.0000e-004**	**0.0207**	**0.0000**	**90.7814**	**90.7814**	**3.3300e-003**	**0.0000**	**90.8646**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7193**	**341.7193**	**0.0137**	**0.0000**	**342.0621**

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0363	1.3737	0.3867	4.9100e-003	0.1344	1.4500e-003	0.1358	0.0388	1.3900e-003	0.0402	0.0000	479.7266	479.7266	0.0250	0.0000	480.3511
Worker	0.0993	0.0529	0.7672	3.6100e-003	0.5377	2.2200e-003	0.5399	0.1428	2.0400e-003	0.1448	0.0000	327.3830	327.3830	4.3200e-003	0.0000	327.4910
Total	**0.1357**	**1.4266**	**1.1540**	**8.5200e-003**	**0.6721**	**3.6700e-003**	**0.6757**	**0.1816**	**3.4300e-003**	**0.1850**	**0.0000**	**807.1096**	**807.1096**	**0.0293**	**0.0000**	**807.8421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7189**	**341.7189**	**0.0137**	**0.0000**	**342.0617**

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0363	1.3737	0.3867	4.9100e-003	0.1344	1.4500e-003	0.1358	0.0388	1.3900e-003	0.0402	0.0000	479.7266	479.7266	0.0250	0.0000	480.3511
Worker	0.0993	0.0529	0.7672	3.6100e-003	0.5377	2.2200e-003	0.5399	0.1428	2.0400e-003	0.1448	0.0000	327.3830	327.3830	4.3200e-003	0.0000	327.4910
Total	**0.1357**	**1.4266**	**1.1540**	**8.5200e-003**	**0.6721**	**3.6700e-003**	**0.6757**	**0.1816**	**3.4300e-003**	**0.1850**	**0.0000**	**807.1096**	**807.1096**	**0.0293**	**0.0000**	**807.8421**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2000e-003	0.0436	0.0889	1.7000e-004		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	14.4574	14.4574	5.8000e-004	0.0000	14.4719
Total	**7.2000e-003**	**0.0436**	**0.0889**	**1.7000e-004**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**	**0.0000**	**14.4574**	**14.4574**	**5.8000e-004**	**0.0000**	**14.4719**

3.5 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5300e-003	0.0578	0.0163	2.1000e-004	5.6800e-003	6.0000e-005	5.7500e-003	1.6400e-003	6.0000e-005	1.7000e-003	0.0000	20.2693	20.2693	1.0500e-003	0.0000	20.2956
Worker	3.9500e-003	2.0800e-003	0.0307	1.5000e-004	0.0228	9.0000e-005	0.0228	6.0400e-003	8.0000e-005	6.1200e-003	0.0000	13.6296	13.6296	1.7000e-004	0.0000	13.6338
Total	**5.4800e-003**	**0.0599**	**0.0470**	**3.6000e-004**	**0.0284**	**1.5000e-004**	**0.0286**	**7.6800e-003**	**1.4000e-004**	**7.8200e-003**	**0.0000**	**33.8989**	**33.8989**	**1.2200e-003**	**0.0000**	**33.9294**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2000e-003	0.0436	0.0889	1.7000e-004		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	14.4573	14.4573	5.8000e-004	0.0000	14.4718
Total	**7.2000e-003**	**0.0436**	**0.0889**	**1.7000e-004**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**	**0.0000**	**14.4573**	**14.4573**	**5.8000e-004**	**0.0000**	**14.4718**

3.5 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5300e-003	0.0578	0.0163	2.1000e-004	5.6800e-003	6.0000e-005	5.7500e-003	1.6400e-003	6.0000e-005	1.7000e-003	0.0000	20.2693	20.2693	1.0500e-003	0.0000	20.2956
Worker	3.9500e-003	2.0800e-003	0.0307	1.5000e-004	0.0228	9.0000e-005	0.0228	6.0400e-003	8.0000e-005	6.1200e-003	0.0000	13.6296	13.6296	1.7000e-004	0.0000	13.6338
Total	**5.4800e-003**	**0.0599**	**0.0470**	**3.6000e-004**	**0.0284**	**1.5000e-004**	**0.0286**	**7.6800e-003**	**1.4000e-004**	**7.8200e-003**	**0.0000**	**33.8989**	**33.8989**	**1.2200e-003**	**0.0000**	**33.9294**

3.6 Paving - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0139	0.0712	0.1585	2.8000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	24.0995	24.0995	1.1300e-003	0.0000	24.1278
Paving	1.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.0712**	**0.1585**	**2.8000e-004**		**3.3100e-003**	**3.3100e-003**		**3.3100e-003**	**3.3100e-003**	**0.0000**	**24.0995**	**24.0995**	**1.1300e-003**	**0.0000**	**24.1278**

3.6 Paving - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.5000e-004	2.2200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	0.9860	0.9860	1.0000e-005	0.0000	0.9863
Total	**2.9000e-004**	**1.5000e-004**	**2.2200e-003**	**1.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6500e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**0.9860**	**0.9860**	**1.0000e-005**	**0.0000**	**0.9863**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0139	0.0712	0.1585	2.8000e-004		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	24.0995	24.0995	1.1300e-003	0.0000	24.1277
Paving	1.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.0712**	**0.1585**	**2.8000e-004**		**3.3100e-003**	**3.3100e-003**		**3.3100e-003**	**3.3100e-003**	**0.0000**	**24.0995**	**24.0995**	**1.1300e-003**	**0.0000**	**24.1277**

3.6 Paving - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.5000e-004	2.2200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	0.9860	0.9860	1.0000e-005	0.0000	0.9863
Total	**2.9000e-004**	**1.5000e-004**	**2.2200e-003**	**1.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6500e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**0.9860**	**0.9860**	**1.0000e-005**	**0.0000**	**0.9863**

3.7 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1828					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	8.5600e-003	0.0180	3.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.5533	2.5533	1.0000e-004	0.0000	2.5558
Total	**2.1841**	**8.5600e-003**	**0.0180**	**3.0000e-005**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.0000e-004**	**0.0000**	**2.5558**

3.7 Architectural Coating - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	7.5000e-004	0.0111	5.0000e-005	8.2300e-003	3.0000e-005	8.2600e-003	2.1900e-003	3.0000e-005	2.2100e-003	0.0000	4.9299	4.9299	6.0000e-005	0.0000	4.9314
Total	**1.4300e-003**	**7.5000e-004**	**0.0111**	**5.0000e-005**	**8.2300e-003**	**3.0000e-005**	**8.2600e-003**	**2.1900e-003**	**3.0000e-005**	**2.2100e-003**	**0.0000**	**4.9299**	**4.9299**	**6.0000e-005**	**0.0000**	**4.9314**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1828					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	8.5600e-003	0.0180	3.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.5533	2.5533	1.0000e-004	0.0000	2.5558
Total	**2.1841**	**8.5600e-003**	**0.0180**	**3.0000e-005**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.0000e-004**	**0.0000**	**2.5558**

3.7 Architectural Coating - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	7.5000e-004	0.0111	5.0000e-005	8.2300e-003	3.0000e-005	8.2600e-003	2.1900e-003	3.0000e-005	2.2100e-003	0.0000	4.9299	4.9299	6.0000e-005	0.0000	4.9314
Total	**1.4300e-003**	**7.5000e-004**	**0.0111**	**5.0000e-005**	**8.2300e-003**	**3.0000e-005**	**8.2600e-003**	**2.1900e-003**	**3.0000e-005**	**2.2100e-003**	**0.0000**	**4.9299**	**4.9299**	**6.0000e-005**	**0.0000**	**4.9314**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7927	5.0278	9.8507	0.0515	5.5658	0.0257	5.5914	1.4907	0.0238	1.5145	0.0000	4,806.4350	4,806.4350	0.1869	0.0000	4,811.1080
Unmitigated	0.7927	5.0278	9.8507	0.0515	5.5658	0.0257	5.5914	1.4907	0.0238	1.5145	0.0000	4,806.4350	4,806.4350	0.1869	0.0000	4,811.1080

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	4,644.18	1,035.78	442.10	11,366,600	11,366,600
General Office Building	89.12	19.88	8.48	218,126	218,126
Health Club	134.03	84.94	108.79	263,942	263,942
High Turnover (Sit Down Restaurant)	623.04	776.01	646.02	883,349	883,349
High Turnover (Sit Down Restaurant)	500.97	623.98	519.45	710,284	710,284
Parking Lot	0.00	0.00	0.00		
Strip Mall	697.60	661.71	321.57	1,215,286	1,215,286
Total	6,688.93	3,202.30	2,046.41	14,657,587	14,657,587

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
General Office Building	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Health Club	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
High Turnover (Sit Down Restaurant)	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Parking Lot	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Strip Mall	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Warner Center Phase 8 - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,193.7368	5,193.7368	0.1227	0.0254	5,204.3663
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,193.7368	5,193.7368	0.1227	0.0254	5,204.3663
NaturalGas Mitigated	0.0351	0.3193	0.2682	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.5407	347.5407	6.6600e-003	6.3700e-003	349.6059
NaturalGas Unmitigated	0.0351	0.3193	0.2682	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.5407	347.5407	6.6600e-003	6.3700e-003	349.6059

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	4.28945e+006	0.0231	0.2103	0.1766	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.9014	228.9014	4.3900e-003	4.2000e-003	230.2617
General Office Building	84081.6	4.5000e-004	4.1200e-003	3.4600e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4869	4.4869	9.0000e-005	8.0000e-005	4.5136
Health Club	73630.8	4.0000e-004	3.6100e-003	3.0300e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9292	3.9292	8.0000e-005	7.0000e-005	3.9526
High Turnover (Sit Down Restaurant)	1.13003e+006	6.0900e-003	0.0554	0.0465	3.3000e-004		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	60.3028	60.3028	1.1600e-003	1.1100e-003	60.6612
High Turnover (Sit Down Restaurant)	909656	4.9100e-003	0.0446	0.0375	2.7000e-004		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	48.5427	48.5427	9.3000e-004	8.9000e-004	48.8312
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	25815.2	1.4000e-004	1.2700e-003	1.0600e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.3776	1.3776	3.0000e-005	3.0000e-005	1.3858
Total		**0.0351**	**0.3193**	**0.2682**	**1.9100e-003**		**0.0243**	**0.0243**		**0.0243**	**0.0243**	**0.0000**	**347.5407**	**347.5407**	**6.6800e-003**	**6.3800e-003**	**349.6059**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	4.28945e+006	0.0231	0.2103	0.1766	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.9014	228.9014	4.3900e-003	4.2000e-003	230.2617
General Office Building	84081.6	4.5000e-004	4.1200e-003	3.4600e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4869	4.4869	9.0000e-005	8.0000e-005	4.5136
Health Club	73630.8	4.0000e-004	3.6100e-003	3.0300e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9292	3.9292	8.0000e-005	7.0000e-005	3.9526
High Turnover (Sit Down Restaurant)	1.13003e+006	6.0900e-003	0.0554	0.0465	3.3000e-004		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	60.3028	60.3028	1.1600e-003	1.1100e-003	60.6612
High Turnover (Sit Down Restaurant)	909656	4.9100e-003	0.0446	0.0375	2.7000e-004		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	48.5427	48.5427	9.3000e-004	8.9000e-004	48.8312
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	25815.2	1.4000e-004	1.2700e-003	1.0600e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.3776	1.3776	3.0000e-005	3.0000e-005	1.3858
Total		**0.0351**	**0.3193**	**0.2682**	**1.9100e-003**		**0.0243**	**0.0243**		**0.0243**	**0.0243**	**0.0000**	**347.5407**	**347.5407**	**6.6800e-003**	**6.3800e-003**	**349.6059**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	3.21831e+006	1,792.4760	0.0423	8.7600e-003	1,796.1445
General Office Building	104920	58.4365	1.3800e-003	2.9000e-004	58.5561
General Office Building	5.35254e+006	2,981.1603	0.0704	0.0146	2,987.2615
Health Club	45154.8	25.1495	5.9000e-004	1.2000e-004	25.2010
High Turnover (Sit Down Restaurant)	174000	96.9112	2.2900e-003	4.7000e-004	97.1096
High Turnover (Sit Down Restaurant)	216154	120.3892	2.8400e-003	5.9000e-004	120.6356
Parking Lot	1540	0.8577	2.0000e-005	0.0000	0.8595
Strip Mall	212504	118.3563	2.8000e-003	5.8000e-004	118.5985
Total		**5,193.7368**	**0.1227**	**0.0254**	**5,204.3663**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	3.21831e+006	1,792.4760	0.0423	8.7600e-003	1,796.1445
General Office Building	104920	58.4365	1.3800e-003	2.9000e-004	58.5561
General Office Building	5.35254e+006	2,981.1603	0.0704	0.0146	2,987.2615
Health Club	45154.8	25.1495	5.9000e-004	1.2000e-004	25.2010
High Turnover (Sit Down Restaurant)	174000	96.9112	2.2900e-003	4.7000e-004	97.1096
High Turnover (Sit Down Restaurant)	216154	120.3892	2.8400e-003	5.9000e-004	120.6356
Parking Lot	1540	0.8577	2.0000e-005	0.0000	0.8595
Strip Mall	212504	118.3563	2.8000e-003	5.8000e-004	118.5985
Total		**5,193.7368**	**0.1227**	**0.0254**	**5,204.3663**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.8779	2.1000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0457	0.0457	1.2000e-004	0.0000	0.0487
Unmitigated	1.8779	2.1000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0457	0.0457	1.2000e-004	0.0000	0.0487

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2183					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6574					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1400e-003	2.1000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0457	0.0457	1.2000e-004	0.0000	0.0487
Total	**1.8779**	**2.1000e-004**	**0.0234**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0457**	**0.0457**	**1.2000e-004**	**0.0000**	**0.0487**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2183					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6574					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1400e-003	2.1000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0457	0.0457	1.2000e-004	0.0000	0.0487
Total	**1.8779**	**2.1000e-004**	**0.0234**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0457**	**0.0457**	**1.2000e-004**	**0.0000**	**0.0487**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	905.4651	2.6456	0.0663	991.3547
Unmitigated	905.4651	2.6456	0.0663	991.3547

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	76.2709 / 46.7467	866.5897	2.5052	0.0628	947.9335
Health Club	0.240713 / 0.147534	2.7350	7.9100e-003	2.0000e-004	2.9917
High Turnover (Sit Down Restaurant)	2.87446 / 0.183476	22.8934	0.0942	2.3200e-003	25.9391
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.1659 / 0.714585	13.2470	0.0383	9.6000e-004	14.4904
Total		**905.4651**	**2.6456**	**0.0663**	**991.3547**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	76.2709 / 46.7467	866.5897	2.5052	0.0628	947.9335
Health Club	0.240713 / 0.147534	2.7350	7.9100e-003	2.0000e-004	2.9917
High Turnover (Sit Down Restaurant)	2.87446 / 0.183476	22.8934	0.0942	2.3200e-003	25.9391
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.1659 / 0.714585	13.2470	0.0383	9.6000e-004	14.4904
Total		**905.4651**	**2.6456**	**0.0663**	**991.3547**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	111.9516	6.6162	0.0000	277.3552
Unmitigated	111.9516	6.6162	0.0000	277.3552

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	399.09	81.0117	4.7877	0.0000	200.7030
Health Club	23.2	4.7094	0.2783	0.0000	11.6673
High Turnover (Sit Down Restaurant)	112.69	22.8751	1.3519	0.0000	56.6720
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.53	3.3554	0.1983	0.0000	8.3130
Total		**111.9515**	**6.6162**	**0.0000**	**277.3552**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	399.09	81.0117	4.7877	0.0000	200.7030
Health Club	23.2	4.7094	0.2783	0.0000	11.6673
High Turnover (Sit Down Restaurant)	112.69	22.8751	1.3519	0.0000	56.6720
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.53	3.3554	0.1983	0.0000	8.3130
Total		**111.9515**	**6.6162**	**0.0000**	**277.3552**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 8

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	421.05	1000sqft	0.80	412,051.00	0
General Office Building	8.08	1000sqft	0.01	8,077.00	0
Enclosed Parking with Elevator	1,373.00	Space	12.36	549,200.00	0
Parking Lot	11.00	Space	0.10	4,400.00	0
Health Club	4.07	1000sqft	0.01	4,068.00	0
High Turnover (Sit Down Restaurant)	4.90	1000sqft	0.01	4,897.00	0
High Turnover (Sit Down Restaurant)	3.94	1000sqft	0.01	3,942.00	0
Strip Mall	15.74	1000sqft	0.03	15,741.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND's model. See SWAPE comment about parking.

Grading - Consistent with information provided by the IS/MND.

Demolition - Consistent with the IS/MND's model.

Trips and VMT - Consistent with the IS/MND's model.

Architectural Coating - Consistent with the IS/MND's model.

Fleet Mix - Consistent with the IS/MND's model.

Area Coating - Consistent with the IS/MND's model.

Water And Wastewater - Consistent with IS/MND's model.

Solid Waste - Consistent with the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	224,388.00	227,169.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	673,164.00	681,506.00
tblAreaCoating	Area_Nonresidential_Exterior	224388	227169
tblAreaCoating	Area_Nonresidential_Interior	673164	681506
tblGrading	MaterialExported	0.00	87,000.00
tblLandUse	LandUseSquareFeet	421,050.00	412,051.00
tblLandUse	LandUseSquareFeet	8,080.00	8,077.00
tblLandUse	LandUseSquareFeet	4,070.00	4,068.00
tblLandUse	LandUseSquareFeet	4,900.00	4,897.00
tblLandUse	LandUseSquareFeet	3,940.00	3,942.00
tblLandUse	LandUseSquareFeet	15,740.00	15,741.00
tblLandUse	LotAcreage	9.67	0.80
tblLandUse	LotAcreage	0.19	0.01
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.11	0.01
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.36	0.03
tblSolidWaste	SolidWasteGenerationRate	105.20	112.69
tblTripsAndVMT	HaulingTripNumber	350.00	887.00
tblTripsAndVMT	HaulingTripNumber	8,602.00	16,348.00
tblWater	IndoorWaterUseRate	2,683,238.02	2,874,464.26
tblWater	OutdoorWaterUseRate	171,270.51	183,476.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2032	5.8105	89.0483	52.9870	0.4496	18.4159	0.6261	19.0420	9.9840	0.6201	10.4215	0.0000	48,841.7962	48,841.7962	3.1142	0.0000	48,919.6519
2033	2.3437	18.7724	25.4356	0.0983	5.2634	0.1763	5.4397	1.4197	0.1744	1.5941	0.0000	9,926.7857	9,926.7857	0.3621	0.0000	9,935.8387
2034	218.5562	18.6904	25.0780	0.0978	5.2634	0.3313	5.4384	1.4197	0.3312	1.5929	0.0000	9,875.1881	9,875.1881	0.3577	0.0000	9,884.1298
Maximum	**218.5562**	**89.0483**	**52.9870**	**0.4496**	**18.4159**	**0.6261**	**19.0420**	**9.9840**	**0.6201**	**10.4215**	**0.0000**	**48,841.7962**	**48,841.7962**	**3.1142**	**0.0000**	**48,919.6519**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2032	5.8105	89.0483	52.9870	0.4496	18.4159	0.6261	19.0420	9.9840	0.6201	10.4215	0.0000	48,841.7962	48,841.7962	3.1142	0.0000	48,919.6519
2033	2.3437	18.7724	25.4356	0.0983	5.2634	0.1763	5.4397	1.4197	0.1744	1.5941	0.0000	9,926.7857	9,926.7857	0.3621	0.0000	9,935.8387
2034	218.5562	18.6904	25.0780	0.0978	5.2634	0.3313	5.4384	1.4197	0.3312	1.5929	0.0000	9,875.1881	9,875.1881	0.3577	0.0000	9,884.1298
Maximum	**218.5562**	**89.0483**	**52.9870**	**0.4496**	**18.4159**	**0.6261**	**19.0420**	**9.9840**	**0.6201**	**10.4215**	**0.0000**	**48,841.7962**	**48,841.7962**	**3.1142**	**0.0000**	**48,919.6519**

Warner Center Phase 8 - South Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.2950	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Energy	0.1924	1.7493	1.4694	0.0105		0.1330	0.1330		0.1330	0.1330		2,099.1672	2,099.1672	0.0402	0.0385	2,111.6415
Mobile	5.9410	34.3139	72.1428	0.3758	39.8850	0.1801	40.0651	10.6660	0.1673	10.8334		38,612.4073	38,612.4073	1.4415		38,648.4457
Total	**16.4284**	**36.0649**	**73.7992**	**0.3864**	**39.8850**	**0.3137**	**40.1987**	**10.6660**	**0.3010**	**10.9670**		**40,711.9776**	**40,711.9776**	**1.4828**	**0.0385**	**40,760.5162**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.2950	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Energy	0.1924	1.7493	1.4694	0.0105		0.1330	0.1330		0.1330	0.1330		2,099.1672	2,099.1672	0.0402	0.0385	2,111.6415
Mobile	5.9410	34.3139	72.1428	0.3758	39.8850	0.1801	40.0651	10.6660	0.1673	10.8334		38,612.4073	38,612.4073	1.4415		38,648.4457
Total	**16.4284**	**36.0649**	**73.7992**	**0.3864**	**39.8850**	**0.3137**	**40.1987**	**10.6660**	**0.3010**	**10.9670**		**40,711.9776**	**40,711.9776**	**1.4828**	**0.0385**	**40,760.5162**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/31/2032	9/27/2032	5	20	
2	Site Preparation	Site Preparation	9/28/2032	10/11/2032	5	10	
3	Grading	Grading	10/12/2032	11/22/2032	5	30	
4	Building Construction	Building Construction	11/23/2032	1/16/2034	5	300	
5	Paving	Paving	1/17/2034	2/13/2034	5	20	
6	Architectural Coating	Architectural Coating	2/14/2034	3/13/2034	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 12.46

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 681,506; Non-Residential Outdoor: 227,169; Striped Parking Area: 33,216 (Architectural Coating – sqft)

OffRoad Equipment

Warner Center Phase 8 - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	887.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	16,348.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	377.00	164.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7898	0.0000	3.7898	0.5738	0.0000	0.5738			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**3.7898**	**0.3511**	**4.1408**	**0.5738**	**0.3511**	**0.9249**		**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2024	6.1187	2.4092	0.0308	0.7747	0.0112	0.7859	0.2123	0.0107	0.2230		3,375.1764	3,375.1764	0.2296		3,380.9151
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0324	0.0156	0.2706	1.1800e-003	0.1677	7.3000e-004	0.1684	0.0445	6.7000e-004	0.0451		118.1425	118.1425	1.6800e-003		118.1844
Total	**0.2348**	**6.1343**	**2.6798**	**0.0320**	**0.9424**	**0.0119**	**0.9543**	**0.2568**	**0.0114**	**0.2681**		**3,493.3189**	**3,493.3189**	**0.2312**		**3,499.0995**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7898	0.0000	3.7898	0.5738	0.0000	0.5738			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**3.7898**	**0.3511**	**4.1408**	**0.5738**	**0.3511**	**0.9249**	**0.0000**	**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2024	6.1187	2.4092	0.0308	0.7747	0.0112	0.7859	0.2123	0.0107	0.2230		3,375.1764	3,375.1764	0.2296		3,380.9151
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0324	0.0156	0.2706	1.1800e-003	0.1677	7.3000e-004	0.1684	0.0445	6.7000e-004	0.0451		118.1425	118.1425	1.6800e-003		118.1844
Total	**0.2348**	**6.1343**	**2.6798**	**0.0320**	**0.9424**	**0.0119**	**0.9543**	**0.2568**	**0.0114**	**0.2681**		**3,493.3189**	**3,493.3189**	**0.2312**		**3,499.0995**

3.3 Site Preparation - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0389	0.0187	0.3247	1.4200e-003	0.2012	8.7000e-004	0.2021	0.0534	8.0000e-004	0.0542		141.7709	141.7709	2.0100e-003		141.8212
Total	**0.0389**	**0.0187**	**0.3247**	**1.4200e-003**	**0.2012**	**8.7000e-004**	**0.2021**	**0.0534**	**8.0000e-004**	**0.0542**		**141.7709**	**141.7709**	**2.0100e-003**		**141.8212**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0389	0.0187	0.3247	1.4200e-003	0.2012	8.7000e-004	0.2021	0.0534	8.0000e-004	0.0542		141.7709	141.7709	2.0100e-003		141.8212
Total	**0.0389**	**0.0187**	**0.3247**	**1.4200e-003**	**0.2012**	**8.7000e-004**	**0.2021**	**0.0534**	**8.0000e-004**	**0.0542**		**141.7709**	**141.7709**	**2.0100e-003**		**141.8212**

3.4 Grading - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	**3.2807**	**13.8462**	**23.0239**	**0.0699**	**8.6733**	**0.4879**	**9.1613**	**3.5965**	**0.4879**	**4.0844**		**7,213.1086**	**7,213.1086**	**0.2915**		**7,220.3963**

3.4 Grading - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4866	75.1814	29.6023	0.3781	9.5190	0.1372	9.6562	2.6084	0.1312	2.7397		41,471.1644	41,471.1644	2.8205		41,541.6765
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0433	0.0207	0.3607	1.5800e-003	0.2236	9.7000e-004	0.2245	0.0593	8.9000e-004	0.0602		157.5233	157.5233	2.2400e-003		157.5792
Total	**2.5299**	**75.2021**	**29.9631**	**0.3797**	**9.7426**	**0.1382**	**9.8807**	**2.6677**	**0.1321**	**2.7998**		**41,628.6877**	**41,628.6877**	**2.8227**		**41,699.2556**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	**3.2807**	**13.8462**	**23.0239**	**0.0699**	**8.6733**	**0.4879**	**9.1613**	**3.5965**	**0.4879**	**4.0844**	**0.0000**	**7,213.1086**	**7,213.1086**	**0.2915**		**7,220.3963**

3.4 Grading - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4866	75.1814	29.6023	0.3781	9.5190	0.1372	9.6562	2.6084	0.1312	2.7397		41,471.1644	41,471.1644	2.8205		41,541.6765
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0433	0.0207	0.3607	1.5800e-003	0.2236	9.7000e-004	0.2245	0.0593	8.9000e-004	0.0602		157.5233	157.5233	2.2400e-003		157.5792
Total	**2.5299**	**75.2021**	**29.9631**	**0.3797**	**9.7426**	**0.1382**	**9.8807**	**2.6677**	**0.1321**	**2.7998**		**41,628.6877**	**41,628.6877**	**2.8227**		**41,699.2556**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2755	10.5401	2.8477	0.0382	1.0495	0.0112	1.0607	0.3021	0.0107	0.3128		4,119.7519	4,119.7519	0.2086		4,124.9662
Worker	0.8154	0.3907	6.8000	0.0297	4.2140	0.0182	4.2322	1.1176	0.0168	1.1343		2,969.3136	2,969.3136	0.0421		2,970.3670
Total	**1.0909**	**10.9308**	**9.6477**	**0.0680**	**5.2634**	**0.0294**	**5.2929**	**1.4197**	**0.0275**	**1.4472**		**7,089.0655**	**7,089.0655**	**0.2507**		**7,095.3332**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2755	10.5401	2.8477	0.0382	1.0495	0.0112	1.0607	0.3021	0.0107	0.3128		4,119.7519	4,119.7519	0.2086		4,124.9662
Worker	0.8154	0.3907	6.8000	0.0297	4.2140	0.0182	4.2322	1.1176	0.0168	1.1343		2,969.3136	2,969.3136	0.0421		2,970.3670
Total	**1.0909**	**10.9308**	**9.6477**	**0.0680**	**5.2634**	**0.0294**	**5.2929**	**1.4197**	**0.0275**	**1.4472**		**7,089.0655**	**7,089.0655**	**0.2507**		**7,095.3332**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2737	10.4769	2.8387	0.0382	1.0495	0.0111	1.0606	0.3021	0.0106	0.3127		4,112.7831	4,112.7831	0.2070		4,117.9582
Worker	0.7609	0.3609	6.4400	0.0292	4.2140	0.0170	4.2310	1.1176	0.0157	1.1332		2,916.4558	2,916.4558	0.0389		2,917.4277
Total	**1.0345**	**10.8378**	**9.2787**	**0.0674**	**5.2634**	**0.0281**	**5.2916**	**1.4197**	**0.0263**	**1.4460**		**7,029.2389**	**7,029.2389**	**0.2459**		**7,035.3859**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2737	10.4769	2.8387	0.0382	1.0495	0.0111	1.0606	0.3021	0.0106	0.3127		4,112.7831	4,112.7831	0.2070		4,117.9582
Worker	0.7609	0.3609	6.4400	0.0292	4.2140	0.0170	4.2310	1.1176	0.0157	1.1332		2,916.4558	2,916.4558	0.0389		2,917.4277
Total	**1.0345**	**10.8378**	**9.2787**	**0.0674**	**5.2634**	**0.0281**	**5.2916**	**1.4197**	**0.0263**	**1.4460**		**7,029.2389**	**7,029.2389**	**0.2459**		**7,035.3859**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2720	10.4199	2.8289	0.0381	1.0495	0.0110	1.0604	0.3021	0.0105	0.3126		4,107.4546	4,107.4546	0.2057		4,112.5961
Worker	0.7146	0.3359	6.0921	0.0287	4.2140	0.0159	4.2299	1.1176	0.0146	1.1322		2,870.1867	2,870.1867	0.0358		2,871.0808
Total	**0.9866**	**10.7558**	**8.9210**	**0.0669**	**5.2634**	**0.0269**	**5.2903**	**1.4197**	**0.0251**	**1.4448**		**6,977.6413**	**6,977.6413**	**0.2414**		**6,983.6770**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2720	10.4199	2.8289	0.0381	1.0495	0.0110	1.0604	0.3021	0.0105	0.3126		4,107.4546	4,107.4546	0.2057		4,112.5961
Worker	0.7146	0.3359	6.0921	0.0287	4.2140	0.0159	4.2299	1.1176	0.0146	1.1322		2,870.1867	2,870.1867	0.0358		2,871.0808
Total	**0.9866**	**10.7558**	**8.9210**	**0.0669**	**5.2634**	**0.0269**	**5.2903**	**1.4197**	**0.0251**	**1.4448**		**6,977.6413**	**6,977.6413**	**0.2414**		**6,983.6770**

3.6 Paving - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3976**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0284	0.0134	0.2424	1.1400e-003	0.1677	6.3000e-004	0.1683	0.0445	5.8000e-004	0.0451		114.1984	114.1984	1.4200e-003		114.2340
Total	**0.0284**	**0.0134**	**0.2424**	**1.1400e-003**	**0.1677**	**6.3000e-004**	**0.1683**	**0.0445**	**5.8000e-004**	**0.0451**		**114.1984**	**114.1984**	**1.4200e-003**		**114.2340**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3976**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0284	0.0134	0.2424	1.1400e-003	0.1677	6.3000e-004	0.1683	0.0445	5.8000e-004	0.0451		114.1984	114.1984	1.4200e-003		114.2340
Total	**0.0284**	**0.0134**	**0.2424**	**1.1400e-003**	**0.1677**	**6.3000e-004**	**0.1683**	**0.0445**	**5.8000e-004**	**0.0451**		**114.1984**	**114.1984**	**1.4200e-003**		**114.2340**

3.7 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	218.2832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**218.4140**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1422	0.0668	1.2120	5.7200e-003	0.8383	3.1700e-003	0.8415	0.2223	2.9100e-003	0.2252		570.9921	570.9921	7.1200e-003		571.1699
Total	**0.1422**	**0.0668**	**1.2120**	**5.7200e-003**	**0.8383**	**3.1700e-003**	**0.8415**	**0.2223**	**2.9100e-003**	**0.2252**		**570.9921**	**570.9921**	**7.1200e-003**		**571.1699**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	218.2832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**218.4140**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1422	0.0668	1.2120	5.7200e-003	0.8383	3.1700e-003	0.8415	0.2223	2.9100e-003	0.2252		570.9921	570.9921	7.1200e-003		571.1699
Total	**0.1422**	**0.0668**	**1.2120**	**5.7200e-003**	**0.8383**	**3.1700e-003**	**0.8415**	**0.2223**	**2.9100e-003**	**0.2252**		**570.9921**	**570.9921**	**7.1200e-003**		**571.1699**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.9410	34.3139	72.1428	0.3758	39.8850	0.1801	40.0651	10.6660	0.1673	10.8334		38,612.4073	38,612.4073	1.4415		38,648.4457
Unmitigated	5.9410	34.3139	72.1428	0.3758	39.8850	0.1801	40.0651	10.6660	0.1673	10.8334		38,612.4073	38,612.4073	1.4415		38,648.4457

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	4,644.18	1,035.78	442.10	11,366,600	11,366,600
General Office Building	89.12	19.88	8.48	218,126	218,126
Health Club	134.03	84.94	108.79	263,942	263,942
High Turnover (Sit Down Restaurant)	623.04	776.01	646.02	883,349	883,349
High Turnover (Sit Down Restaurant)	500.97	623.98	519.45	710,284	710,284
Parking Lot	0.00	0.00	0.00		
Strip Mall	697.60	661.71	321.57	1,215,286	1,215,286
Total	6,688.93	3,202.30	2,046.41	14,657,587	14,657,587

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
General Office Building	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Health Club	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
High Turnover (Sit Down Restaurant)	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Parking Lot	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Strip Mall	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Warner Center Phase 8 - South Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1924	1.7493	1.4694	0.0105		0.1330	0.1330		0.1330	0.1330		2,099.1672	2,099.1672	0.0402	0.0385	2,111.6415
NaturalGas Unmitigated	0.1924	1.7493	1.4694	0.0105		0.1330	0.1330		0.1330	0.1330		2,099.1672	2,099.1672	0.0402	0.0385	2,111.6415

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	11751.9	0.1267	1.1522	0.9678	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.5789	1,382.5789	0.0265	0.0254	1,390.7948
General Office Building	230.36	2.4800e-003	0.0226	0.0190	1.4000e-004		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003		27.1012	27.1012	5.2000e-004	5.0000e-004	27.2623
Health Club	201.728	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7327	23.7327	4.5000e-004	4.4000e-004	23.8738
High Turnover (Sit Down Restaurant)	2492.21	0.0269	0.2443	0.2052	1.4700e-003		0.0186	0.0186		0.0186	0.0186		293.2009	293.2009	5.6200e-003	5.3800e-003	294.9433
High Turnover (Sit Down Restaurant)	3095.98	0.0334	0.3035	0.2550	1.8200e-003		0.0231	0.0231		0.0231	0.0231		364.2326	364.2326	6.9800e-003	6.6800e-003	366.3971
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	70.7267	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3208	8.3208	1.6000e-004	1.5000e-004	8.3702
Total		**0.1924**	**1.7493**	**1.4694**	**0.0105**		**0.1330**	**0.1330**		**0.1330**	**0.1330**		**2,099.1672**	**2,099.1672**	**0.0402**	**0.0385**	**2,111.6415**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.23036	2.4800e-003	0.0226	0.0190	1.4000e-004		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003		27.1012	27.1012	5.2000e-004	5.0000e-004	27.2623
General Office Building	11.7519	0.1267	1.1522	0.9678	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.5789	1,382.5789	0.0265	0.0254	1,390.7948
Health Club	0.201728	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7327	23.7327	4.5000e-004	4.4000e-004	23.8738
High Turnover (Sit Down Restaurant)	2.49221	0.0269	0.2443	0.2052	1.4700e-003		0.0186	0.0186		0.0186	0.0186		293.2009	293.2009	5.6200e-003	5.3800e-003	294.9433
High Turnover (Sit Down Restaurant)	3.09598	0.0334	0.3035	0.2550	1.8200e-003		0.0231	0.0231		0.0231	0.0231		364.2326	364.2326	6.9800e-003	6.6800e-003	366.3971
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0707267	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3208	8.3208	1.6000e-004	1.5000e-004	8.3702
Total		**0.1924**	**1.7493**	**1.4694**	**0.0105**		**0.1330**	**0.1330**		**0.1330**	**0.1330**		**2,099.1672**	**2,099.1672**	**0.0402**	**0.0385**	**2,111.6415**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.2950	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Unmitigated	10.2950	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1961					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.0819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Total	**10.2950**	**1.6800e-003**	**0.1870**	**1.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**		**0.4031**	**0.4031**	**1.0400e-003**		**0.4290**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1961					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.0819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Total	**10.2950**	**1.6800e-003**	**0.1870**	**1.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**		**0.4031**	**0.4031**	**1.0400e-003**		**0.4290**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Warner Center Phase 8

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	421.05	1000sqft	0.80	412,051.00	0
General Office Building	8.08	1000sqft	0.01	8,077.00	0
Enclosed Parking with Elevator	1,373.00	Space	12.36	549,200.00	0
Parking Lot	11.00	Space	0.10	4,400.00	0
Health Club	4.07	1000sqft	0.01	4,068.00	0
High Turnover (Sit Down Restaurant)	4.90	1000sqft	0.01	4,897.00	0
High Turnover (Sit Down Restaurant)	3.94	1000sqft	0.01	3,942.00	0
Strip Mall	15.74	1000sqft	0.03	15,741.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2035
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Consistent with the IS/MND's model. See SWAPE comment about parking.

Grading - Consistent with information provided by the IS/MND.

Demolition - Consistent with the IS/MND's model.

Trips and VMT - Consistent with the IS/MND's model.

Architectural Coating - Consistent with the IS/MND's model.

Fleet Mix - Consistent with the IS/MND's model.

Area Coating - Consistent with the IS/MND's model.

Water And Wastewater - Consistent with IS/MND's model.

Solid Waste - Consistent with the IS/MND's model.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	224,388.00	227,169.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	673,164.00	681,506.00
tblAreaCoating	Area_Nonresidential_Exterior	224388	227169
tblAreaCoating	Area_Nonresidential_Interior	673164	681506
tblGrading	MaterialExported	0.00	87,000.00
tblLandUse	LandUseSquareFeet	421,050.00	412,051.00
tblLandUse	LandUseSquareFeet	8,080.00	8,077.00
tblLandUse	LandUseSquareFeet	4,070.00	4,068.00
tblLandUse	LandUseSquareFeet	4,900.00	4,897.00
tblLandUse	LandUseSquareFeet	3,940.00	3,942.00
tblLandUse	LandUseSquareFeet	15,740.00	15,741.00
tblLandUse	LotAcreage	9.67	0.80
tblLandUse	LotAcreage	0.19	0.01
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.11	0.01
tblLandUse	LotAcreage	0.09	0.01
tblLandUse	LotAcreage	0.36	0.03
tblSolidWaste	SolidWasteGenerationRate	105.20	112.69
tblTripsAndVMT	HaulingTripNumber	350.00	887.00
tblTripsAndVMT	HaulingTripNumber	8,602.00	16,348.00
tblWater	IndoorWaterUseRate	2,683,238.02	2,874,464.26
tblWater	OutdoorWaterUseRate	171,270.51	183,476.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2032	5.8778	89.4652	54.1333	0.4432	18.4159	0.6276	19.0435	9.9840	0.6215	10.4215	0.0000	48,143.9348	48,143.9348	3.1823	0.0000	48,223.4918
2033	2.4579	18.7492	24.9839	0.0955	5.2634	0.1765	5.4399	1.4197	0.1746	1.5943	0.0000	9,635.7751	9,635.7751	0.3700	0.0000	9,645.0255
2034	218.5752	18.6640	24.6557	0.0950	5.2634	0.3313	5.4386	1.4197	0.3312	1.5931	0.0000	9,586.6649	9,586.6649	0.3656	0.0000	9,595.8049
Maximum	**218.5752**	**89.4652**	**54.1333**	**0.4432**	**18.4159**	**0.6276**	**19.0435**	**9.9840**	**0.6215**	**10.4215**	**0.0000**	**48,143.9348**	**48,143.9348**	**3.1823**	**0.0000**	**48,223.4918**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2032	5.8778	89.4652	54.1333	0.4432	18.4159	0.6276	19.0435	9.9840	0.6215	10.4215	0.0000	48,143.9348	48,143.9348	3.1823	0.0000	48,223.4918
2033	2.4579	18.7492	24.9839	0.0955	5.2634	0.1765	5.4399	1.4197	0.1746	1.5943	0.0000	9,635.7751	9,635.7751	0.3700	0.0000	9,645.0255
2034	218.5752	18.6640	24.6557	0.0950	5.2634	0.3313	5.4386	1.4197	0.3312	1.5931	0.0000	9,586.6649	9,586.6649	0.3656	0.0000	9,595.8049
Maximum	**218.5752**	**89.4652**	**54.1333**	**0.4432**	**18.4159**	**0.6276**	**19.0435**	**9.9840**	**0.6215**	**10.4215**	**0.0000**	**48,143.9348**	**48,143.9348**	**3.1823**	**0.0000**	**48,223.4918**

Warner Center Phase 8 - South Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.2950	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Energy	0.1924	1.7493	1.4694	0.0105		0.1330	0.1330		0.1330	0.1330		2,099.1672	2,099.1672	0.0402	0.0385	2,111.6415
Mobile	5.6774	34.4870	68.3059	0.3571	39.8850	0.1806	40.0656	10.6660	0.1678	10.8339		36,714.8973	36,714.8973	1.4605		36,751.4086
Total	**16.1649**	**36.2380**	**69.9623**	**0.3676**	**39.8850**	**0.3142**	**40.1992**	**10.6660**	**0.3015**	**10.9675**		**38,814.4675**	**38,814.4675**	**1.5017**	**0.0385**	**38,863.4791**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.2950	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Energy	0.1924	1.7493	1.4694	0.0105		0.1330	0.1330		0.1330	0.1330		2,099.1672	2,099.1672	0.0402	0.0385	2,111.6415
Mobile	5.6774	34.4870	68.3059	0.3571	39.8850	0.1806	40.0656	10.6660	0.1678	10.8339		36,714.8973	36,714.8973	1.4605		36,751.4086
Total	**16.1649**	**36.2380**	**69.9623**	**0.3676**	**39.8850**	**0.3142**	**40.1992**	**10.6660**	**0.3015**	**10.9675**		**38,814.4675**	**38,814.4675**	**1.5017**	**0.0385**	**38,863.4791**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/31/2032	9/27/2032	5	20	
2	Site Preparation	Site Preparation	9/28/2032	10/11/2032	5	10	
3	Grading	Grading	10/12/2032	11/22/2032	5	30	
4	Building Construction	Building Construction	11/23/2032	1/16/2034	5	300	
5	Paving	Paving	1/17/2034	2/13/2034	5	20	
6	Architectural Coating	Architectural Coating	2/14/2034	3/13/2034	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 12.46

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 681,506; Non-Residential Outdoor: 227,169; Striped Parking Area: 33,216 (Architectural Coating – sqft)

OffRoad Equipment

Warner Center Phase 8 - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	887.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	16,348.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	377.00	164.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7898	0.0000	3.7898	0.5738	0.0000	0.5738			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**3.7898**	**0.3511**	**4.1408**	**0.5738**	**0.3511**	**0.9249**		**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2074	6.1525	2.5057	0.0303	0.7747	0.0113	0.7860	0.2123	0.0108	0.2231		3,319.1866	3,319.1866	0.2351		3,325.0641
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0367	0.0170	0.2410	1.1100e-003	0.1677	7.3000e-004	0.1684	0.0445	6.7000e-004	0.0451		110.7113	110.7113	1.5500e-003		110.7501
Total	**0.2441**	**6.1695**	**2.7467**	**0.0314**	**0.9424**	**0.0120**	**0.9544**	**0.2568**	**0.0115**	**0.2682**		**3,429.8979**	**3,429.8979**	**0.2367**		**3,435.8142**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7898	0.0000	3.7898	0.5738	0.0000	0.5738			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**3.7898**	**0.3511**	**4.1408**	**0.5738**	**0.3511**	**0.9249**	**0.0000**	**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2074	6.1525	2.5057	0.0303	0.7747	0.0113	0.7860	0.2123	0.0108	0.2231		3,319.1866	3,319.1866	0.2351		3,325.0641
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0367	0.0170	0.2410	1.1100e-003	0.1677	7.3000e-004	0.1684	0.0445	6.7000e-004	0.0451		110.7113	110.7113	1.5500e-003		110.7501
Total	**0.2441**	**6.1695**	**2.7467**	**0.0314**	**0.9424**	**0.0120**	**0.9544**	**0.2568**	**0.0115**	**0.2682**		**3,429.8979**	**3,429.8979**	**0.2367**		**3,435.8142**

3.3 Site Preparation - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0440	0.0204	0.2892	1.3300e-003	0.2012	8.7000e-004	0.2021	0.0534	8.0000e-004	0.0542		132.8535	132.8535	1.8600e-003		132.9001
Total	**0.0440**	**0.0204**	**0.2892**	**1.3300e-003**	**0.2012**	**8.7000e-004**	**0.2021**	**0.0534**	**8.0000e-004**	**0.0542**		**132.8535**	**132.8535**	**1.8600e-003**		**132.9001**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0440	0.0204	0.2892	1.3300e-003	0.2012	8.7000e-004	0.2021	0.0534	8.0000e-004	0.0542		132.8535	132.8535	1.8600e-003		132.9001
Total	**0.0440**	**0.0204**	**0.2892**	**1.3300e-003**	**0.2012**	**8.7000e-004**	**0.2021**	**0.0534**	**8.0000e-004**	**0.0542**		**132.8535**	**132.8535**	**1.8600e-003**		**132.9001**

3.4 Grading - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	**3.2807**	**13.8462**	**23.0239**	**0.0699**	**8.6733**	**0.4879**	**9.1613**	**3.5965**	**0.4879**	**4.0844**		**7,213.1086**	**7,213.1086**	**0.2915**		**7,220.3963**

3.4 Grading - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5482	75.5964	30.7880	0.3718	9.5190	0.1387	9.6577	2.6084	0.1327	2.7411		40,783.2112	40,783.2112	2.8887		40,855.4287
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0489	0.0227	0.3213	1.4800e-003	0.2236	9.7000e-004	0.2245	0.0593	8.9000e-004	0.0602		147.6150	147.6150	2.0700e-003		147.6668
Total	**2.5971**	**75.6190**	**31.1094**	**0.3733**	**9.7426**	**0.1396**	**9.8822**	**2.6677**	**0.1335**	**2.8013**		**40,930.8262**	**40,930.8262**	**2.8908**		**41,003.0955**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	**3.2807**	**13.8462**	**23.0239**	**0.0699**	**8.6733**	**0.4879**	**9.1613**	**3.5965**	**0.4879**	**4.0844**	**0.0000**	**7,213.1086**	**7,213.1086**	**0.2915**		**7,220.3963**

3.4 Grading - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5482	75.5964	30.7880	0.3718	9.5190	0.1387	9.6577	2.6084	0.1327	2.7411		40,783.2112	40,783.2112	2.8887		40,855.4287
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0489	0.0227	0.3213	1.4800e-003	0.2236	9.7000e-004	0.2245	0.0593	8.9000e-004	0.0602		147.6150	147.6150	2.0700e-003		147.6668
Total	**2.5971**	**75.6190**	**31.1094**	**0.3733**	**9.7426**	**0.1396**	**9.8822**	**2.6677**	**0.1335**	**2.8013**		**40,930.8262**	**40,930.8262**	**2.8908**		**41,003.0955**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2890	10.4841	3.1089	0.0373	1.0495	0.0114	1.0609	0.3021	0.0109	0.3131		4,012.5166	4,012.5166	0.2196		4,018.0053
Worker	0.9221	0.4271	6.0572	0.0279	4.2140	0.0182	4.2322	1.1176	0.0168	1.1343		2,782.5428	2,782.5428	0.0391		2,783.5189
Total	**1.2111**	**10.9113**	**9.1661**	**0.0651**	**5.2634**	**0.0297**	**5.2931**	**1.4197**	**0.0277**	**1.4474**		**6,795.0594**	**6,795.0594**	**0.2586**		**6,801.5243**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2890	10.4841	3.1089	0.0373	1.0495	0.0114	1.0609	0.3021	0.0109	0.3131		4,012.5166	4,012.5166	0.2196		4,018.0053
Worker	0.9221	0.4271	6.0572	0.0279	4.2140	0.0182	4.2322	1.1176	0.0168	1.1343		2,782.5428	2,782.5428	0.0391		2,783.5189
Total	**1.2111**	**10.9113**	**9.1661**	**0.0651**	**5.2634**	**0.0297**	**5.2931**	**1.4197**	**0.0277**	**1.4474**		**6,795.0594**	**6,795.0594**	**0.2586**		**6,801.5243**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2871	10.4203	3.0992	0.0372	1.0495	0.0113	1.0608	0.3021	0.0108	0.3129		4,005.5687	4,005.5687	0.2178		4,011.0133
Worker	0.8616	0.3943	5.7277	0.0274	4.2140	0.0170	4.2310	1.1176	0.0157	1.1332		2,732.6597	2,732.6597	0.0360		2,733.5593
Total	**1.1487**	**10.8145**	**8.8269**	**0.0646**	**5.2634**	**0.0283**	**5.2918**	**1.4197**	**0.0265**	**1.4462**		**6,738.2283**	**6,738.2283**	**0.2538**		**6,744.5727**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2871	10.4203	3.0992	0.0372	1.0495	0.0113	1.0608	0.3021	0.0108	0.3129		4,005.5687	4,005.5687	0.2178		4,011.0133
Worker	0.8616	0.3943	5.7277	0.0274	4.2140	0.0170	4.2310	1.1176	0.0157	1.1332		2,732.6597	2,732.6597	0.0360		2,733.5593
Total	**1.1487**	**10.8145**	**8.8269**	**0.0646**	**5.2634**	**0.0283**	**5.2918**	**1.4197**	**0.0265**	**1.4462**		**6,738.2283**	**6,738.2283**	**0.2538**		**6,744.5727**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2854	10.3626	3.0890	0.0371	1.0495	0.0111	1.0606	0.3021	0.0106	0.3128		4,000.1417	4,000.1417	0.2163		4,005.5488
Worker	0.8106	0.3667	5.4097	0.0269	4.2140	0.0159	4.2299	1.1176	0.0146	1.1322		2,688.9764	2,688.9764	0.0331		2,689.8033
Total	**1.0959**	**10.7294**	**8.4987**	**0.0641**	**5.2634**	**0.0270**	**5.2905**	**1.4197**	**0.0253**	**1.4450**		**6,689.1181**	**6,689.1181**	**0.2494**		**6,695.3520**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2854	10.3626	3.0890	0.0371	1.0495	0.0111	1.0606	0.3021	0.0106	0.3128		4,000.1417	4,000.1417	0.2163		4,005.5488
Worker	0.8106	0.3667	5.4097	0.0269	4.2140	0.0159	4.2299	1.1176	0.0146	1.1322		2,688.9764	2,688.9764	0.0331		2,689.8033
Total	**1.0959**	**10.7294**	**8.4987**	**0.0641**	**5.2634**	**0.0270**	**5.2905**	**1.4197**	**0.0253**	**1.4450**		**6,689.1181**	**6,689.1181**	**0.2494**		**6,695.3520**

3.6 Paving - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3976**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0323	0.0146	0.2152	1.0700e-003	0.1677	6.3000e-004	0.1683	0.0445	5.8000e-004	0.0451		106.9885	106.9885	1.3200e-003		107.0214
Total	**0.0323**	**0.0146**	**0.2152**	**1.0700e-003**	**0.1677**	**6.3000e-004**	**0.1683**	**0.0445**	**5.8000e-004**	**0.0451**		**106.9885**	**106.9885**	**1.3200e-003**		**107.0214**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3976**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0323	0.0146	0.2152	1.0700e-003	0.1677	6.3000e-004	0.1683	0.0445	5.8000e-004	0.0451		106.9885	106.9885	1.3200e-003		107.0214
Total	**0.0323**	**0.0146**	**0.2152**	**1.0700e-003**	**0.1677**	**6.3000e-004**	**0.1683**	**0.0445**	**5.8000e-004**	**0.0451**		**106.9885**	**106.9885**	**1.3200e-003**		**107.0214**

3.7 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	218.2832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**218.4140**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1613	0.0730	1.0762	5.3600e-003	0.8383	3.1700e-003	0.8415	0.2223	2.9100e-003	0.2252		534.9423	534.9423	6.5800e-003		535.1068
Total	**0.1613**	**0.0730**	**1.0762**	**5.3600e-003**	**0.8383**	**3.1700e-003**	**0.8415**	**0.2223**	**2.9100e-003**	**0.2252**		**534.9423**	**534.9423**	**6.5800e-003**		**535.1068**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	218.2832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**218.4140**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1613	0.0730	1.0762	5.3600e-003	0.8383	3.1700e-003	0.8415	0.2223	2.9100e-003	0.2252		534.9423	534.9423	6.5800e-003		535.1068
Total	**0.1613**	**0.0730**	**1.0762**	**5.3600e-003**	**0.8383**	**3.1700e-003**	**0.8415**	**0.2223**	**2.9100e-003**	**0.2252**		**534.9423**	**534.9423**	**6.5800e-003**		**535.1068**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6774	34.4870	68.3059	0.3571	39.8850	0.1806	40.0656	10.6660	0.1678	10.8339		36,714.8973	36,714.8973	1.4605		36,751.4086
Unmitigated	5.6774	34.4870	68.3059	0.3571	39.8850	0.1806	40.0656	10.6660	0.1678	10.8339		36,714.8973	36,714.8973	1.4605		36,751.4086

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	4,644.18	1,035.78	442.10	11,366,600	11,366,600
General Office Building	89.12	19.88	8.48	218,126	218,126
Health Club	134.03	84.94	108.79	263,942	263,942
High Turnover (Sit Down Restaurant)	623.04	776.01	646.02	883,349	883,349
High Turnover (Sit Down Restaurant)	500.97	623.98	519.45	710,284	710,284
Parking Lot	0.00	0.00	0.00		
Strip Mall	697.60	661.71	321.57	1,215,286	1,215,286
Total	6,688.93	3,202.30	2,046.41	14,657,587	14,657,587

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
General Office Building	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Health Club	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
High Turnover (Sit Down Restaurant)	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Parking Lot	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735
Strip Mall	0.554218	0.041286	0.206644	0.110669	0.012238	0.005777	0.022663	0.036578	0.002204	0.001416	0.004855	0.000716	0.000735

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Warner Center Phase 8 - South Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1924	1.7493	1.4694	0.0105		0.1330	0.1330		0.1330	0.1330		2,099.1672	2,099.1672	0.0402	0.0385	2,111.6415
NaturalGas Unmitigated	0.1924	1.7493	1.4694	0.0105		0.1330	0.1330		0.1330	0.1330		2,099.1672	2,099.1672	0.0402	0.0385	2,111.6415

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	11751.9	0.1267	1.1522	0.9678	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.5789	1,382.5789	0.0265	0.0254	1,390.7948
General Office Building	230.36	2.4800e-003	0.0226	0.0190	1.4000e-004		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003		27.1012	27.1012	5.2000e-004	5.0000e-004	27.2623
Health Club	201.728	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7327	23.7327	4.5000e-004	4.4000e-004	23.8738
High Turnover (Sit Down Restaurant)	2492.21	0.0269	0.2443	0.2052	1.4700e-003		0.0186	0.0186		0.0186	0.0186		293.2009	293.2009	5.6200e-003	5.3800e-003	294.9433
High Turnover (Sit Down Restaurant)	3095.98	0.0334	0.3035	0.2550	1.8200e-003		0.0231	0.0231		0.0231	0.0231		364.2326	364.2326	6.9800e-003	6.6800e-003	366.3971
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	70.7267	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3208	8.3208	1.6000e-004	1.5000e-004	8.3702
Total		**0.1924**	**1.7493**	**1.4694**	**0.0105**		**0.1330**	**0.1330**		**0.1330**	**0.1330**		**2,099.1672**	**2,099.1672**	**0.0402**	**0.0385**	**2,111.6415**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.23036	2.4800e-003	0.0226	0.0190	1.4000e-004		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003		27.1012	27.1012	5.2000e-004	5.0000e-004	27.2623
General Office Building	11.7519	0.1267	1.1522	0.9678	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.5789	1,382.5789	0.0265	0.0254	1,390.7948
Health Club	0.201728	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7327	23.7327	4.5000e-004	4.4000e-004	23.8738
High Turnover (Sit Down Restaurant)	2.49221	0.0269	0.2443	0.2052	1.4700e-003		0.0186	0.0186		0.0186	0.0186		293.2009	293.2009	5.6200e-003	5.3800e-003	294.9433
High Turnover (Sit Down Restaurant)	3.09598	0.0334	0.3035	0.2550	1.8200e-003		0.0231	0.0231		0.0231	0.0231		364.2326	364.2326	6.9800e-003	6.6800e-003	366.3971
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0707267	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.3208	8.3208	1.6000e-004	1.5000e-004	8.3702
Total		**0.1924**	**1.7493**	**1.4694**	**0.0105**		**0.1330**	**0.1330**		**0.1330**	**0.1330**		**2,099.1672**	**2,099.1672**	**0.0402**	**0.0385**	**2,111.6415**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.2950	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Unmitigated	10.2950	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1961					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.0819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Total	**10.2950**	**1.6800e-003**	**0.1870**	**1.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**		**0.4031**	**0.4031**	**1.0400e-003**		**0.4290**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1961					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.0819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1870	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.4031	0.4031	1.0400e-003		0.4290
Total	**10.2950**	**1.6800e-003**	**0.1870**	**1.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**		**0.4031**	**0.4031**	**1.0400e-003**		**0.4290**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EXHIBIT D

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August 27, 2020

Mitchell M. Tsai
155 South El Molino Avenue Suite 104
Pasadena, CA 91101

Subject: **Response to Comments on the De Soto/Burbank Master Plan Project (Case No. ENV-2017-1706-MND)**

Dear Mr. Tsai,

We have reviewed the August 2020 Responses to August 3, 2020 Carpenters Letter re Case No. DIR-2017-1708-SPP for De Soto-Burbank Master Plan Project ("Memo") for the De Soto/Burbank Master Plan Project ("Project") located in the City of Van Nuys ("City"). After our review, we find that the Memo is insufficient in addressing our concerns regarding the Project's air quality, health risk, and greenhouse gas impacts. As we asserted in our June 22nd comment letter, a Project-specific EIR should be prepared and recirculated to adequately evaluate the potential impacts that the Project may have on the surrounding environment.

Air Quality & Greenhouse Gas

Incorrect Reliance on the Warner Center 2035 Specific Plan

As discussed in our June 22nd comment letter, the IS/MND's reliance on the Warner Center 2035 Specific Plan ("FEIR") is incorrect. As discussed below, we find the Memo to be inadequate in addressing our comment and maintain that the Project's operational air quality, toxic air contaminant ("TAC"), and greenhouse gas ("GHG") impact significance determinations should not be relied upon for the following three (3) reasons.

First, the Memo claims that the IS/MND correctly relies on the FEIR, stating:

> "[T]o the extent that the Tiered IS/MND relies on the Final EIR (with respect to significant impacts that were adequately addressed in the Final EIR), the analysis in the Final EIR is presumptively valid and can no longer be challenged. Here, that includes the Tiered IS/MND analyses of air quality impacts with respect to regional operational emissions of ROG, CO, NOx, SOx, PM10, and PM2.5, cumulative operational air quality impacts, CO hotspots, and toxic air contaminants (TACs), and greenhouse gas impacts, all of which tier off the Final EIR. (Tiered

IS/MND, pp. B-30-33, B-40-41, B-80-81) These topics were adequately addressed in the Final EIR and fully apply to the Project" (p. 3).

However, this justification is insufficient for two reasons. First, the Memo misinterprets our June 22nd comment, as we did not challenge the analysis in the Final EIR, but rather we highlight that *the IS/MND's reliance on of the FEIR is incorrect*, for the reasons reiterated below. Second, the Memo indicates that the "regional operational emissions of ROG, CO, NOx, SOx, PM10, and PM2.5, cumulative operational air quality impacts, CO hotspots, and toxic air contaminants (TACs), and greenhouse gas impacts" were adequately analyzed in the FEIR. However, the IS/MND itself states:

> "A second-tier EIR will be required for the later development project if the project may cause significant effects on the environment that were not adequately addressed in the prior, first-tier EIR" (p. 3).

Here, while the FEIR addressed the Project's significant operational emissions of PM_{10} and $PM_{2.5}$, the FEIR *did not* address the Project's significant operational ROG emissions. As such, this is a *new significant impact that has not been previously addressed*. According to the WC2035 SP FEIR:

> "CEQA Guidelines section 15088.5 requires:
>
> (a) A lead agency is required to recirculate an EIR when significant new information is added to the EIR after public notice of its availability … "Significant new information" requiring recirculation include, for example, a disclosure showing that:
>
> (1) A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented." (FEIR, p. 4-1).

As you can see, if a new significant impact would result from the Project, it is required that a new EIR be recirculated. As demonstrated in our June 22nd comment letter, the proposed Project will result in new significant air quality impacts not previously identified or addressed in the FEIR. As such, the Project is required to recirculate a Project-specific EIR pursuant to CEQA Guidelines §15088.5 and the FEIR. As a result, we maintain our June 22nd comment that the IS/MND's reliance on the FEIR is incorrect, and the IS/MND's operational air quality impact related to ROG emissions should not be relied upon.

Second, the Memo claims that the mitigation measures identified in the FEIR are included in the Mitigation Monitoring Program ("MMP") for the Project. According to the Memo:

> "The Tiered IS/MND also incorporates the mitigation measures identified in the Final EIR that apply in whole or in part to the Project and will be approved by the CPC if it approves the entitlements for the Project as recommended. As further discussed below, these mitigation measures are also included in the Mitigation Monitoring Program ("MMP") for the Project. For the Project's impacts that were not adequately addressed in the Final EIR, the Tiered IS/MND includes new, project-level analyses" (p. 3).

However, this justification is insufficient for two reasons. First, the MMP was not included in the IS/MND and is not publicly available online. As such, we cannot verify that these measures were included in the

MMP and would be implemented, monitored, and enforced on the Project site. Second, while the IS/MND includes WC-AQ-1 through WC-AQ-13, as well as WC-AQ-22, the IS/MND does not identify WC-AQ-17, WC-AQ-18, WC-AQ-19, WC-AQ-20, and WC-AQ-21 as applicable to the proposed Project. This is incorrect, as review of these mitigation measures in the FEIR demonstrates that they are, in fact, applicable to the proposed Project (see excerpt below) (p. ES-13).

> AQ-17: The City shall implement the WCRCCSP components, including transit and rideshare incentives and promotions, and the anticipated transit circulation system, transit shelters, bicycle lanes and pedestrian amenities that increase transit, bicycle and pedestrian modes of transport to meet the assumptions used in the trip generation analysis.
>
> AQ-18: The City shall encourage alternative work schedules and telecommuting in the Warner Center Regional Core Comprehensive Specific Plan area.
>
> AQ-19: The City shall require that goods movement in to and out of the Warner Center Regional Core Comprehensive Specific Plan area be scheduled for off-peak periods.
>
> AQ-20: The City shall promote efficient parking management; as parking demand decreases (as anticipated with smart growth), the City shall change parking requirements to reflect such changes and provide for re-use of parking lots and structures.
>
> AQ-21: As streetlights are replaced, energy-efficient lighting shall be used.

As you can see, these measures could feasibly be implemented on the Project site and as such, the IS/MND should have identified these measures as applicable to the proposed Project. By not including *all applicable* mitigation measures required by the FEIR, the IS/MND is inconsistent with the WC2035 SP. As a result, we maintain our June 22nd comment that the IS/MND fails to comply with the requirements of the WC2035 SP, and the IS/MND's less than significant operational air quality and GHG impact conclusions should not be relied upon.

Third, the Memo claims that a second-tier EIR is not required, as the IS/MND did not identify significant impacts that were not addressed in the first-tier EIR, stating:

> "Under CEQA's tiering principles, where a project is consistent with planning document or policy for which a first-tier EIR has been prepared, and the second-tier CEQA document (here, the Tiered IS/MND) determines that a specific development project has no significant impacts that were not adequately addressed in the first-tier EIR, then a second-tier EIR is not required for the development project. The Tiered IS/MND includes new, project-level air quality analyses for regional construction emissions, localized construction emissions, localized, operational emissions and cumulative construction air quality impacts because they were not adequately addressed in the Final EIR. None of these air quality impacts would be significant and, therefore, a second-tier EIR is not required for the Project and no additional mitigation measures beyond those identified in the Final EIR are required" (p. 3).

However, the Memo's conclusion that the IS/MND's new, project-level air quality analysis does not indicate any new significant air quality impacts is incorrect. As previously discussed in our June 22nd comment letter, the IS/MND's new, project-level analysis for the Project's operational air quality impacts indicates significant ROG/VOC emissions. This was asserted in our June 22nd comment letter and conceded by the Memo. Specifically, the Memo states that the Project's "operational ROG emissions are approximately 90 lbs/day," which exceeds the SCAQMD threshold of 55 lbs/day and thus, demonstrates a significant air quality impact not previously identified or addressed in the WC2035 SP. As such, the

Memo's claims that IS/MND's new, project-level air quality analysis does not indicate any new significant air quality impacts and a second-tier EIR is not required, are incorrect and directly contradict the Memo's own analysis. As a result, we maintain our June 22nd comment that the IS/MND's reliance on the WC2035 SP FEIR is incorrect and that a Project-specific EIR should be prepared and recirculated prior to Project approval.

Failure to Identify Significant Air Quality Impact

As discussed in our June 22nd comment letter, the IS/MND fails to identify significant operational ROG emissions. Review of the Memo demonstrates that the Project again fails to adequately address and mitigate this significant impact. As discussed below, we find the IS/MND and Memo to be inadequate in addressing our comment and maintain that the air quality impact significance determination should not be relied upon.

Regarding the IS/MND's failure adequately address and mitigate the Project's operational VOC/ROG emissions, the Memo states:

> "[T]he Final EIR has adequately addressed the Project's operational ROG impact, and that analysis cannot be challenged. Second, SWAPE misconstrued Appendix A-3. The purpose of the model run summarized in Appendix A-3 was to determine the emissions for the Localized Significance Threshold (LST) analysis. However, Appendix A-3 only considers emissions of NO_X, CO, PM10 and PM2.5. Therefore, when the model was run, the CalEEMod defaults were not changed for ROG or SO_2 emissions since the calculation of those emissions were not required for the project analysis. If ROG emissions had been required, the CalEEMod default for woodburning fireplaces, under Hearth (i.e., fireplace) would have been removed because the Project does not include any fireplaces. As shown on page 321 of Appendix A, the hearth emissions are approximately 264 lbs/day. When the hearth emissions are subtracted from the total operational ROG emissions of 354 lbs/day, the resulting operational ROG emissions are approximately 90 lbs/day" (p. 3).

However, this justification is insufficient for two (2) reasons. First, even if the Project's operational ROG emissions are 90 pounds per day ("lbs/day"), this would still indicate a significant impact when compared to the SCAQMD threshold of 55 lbs/day.[1] As such, the Memo itself demonstrates that Project ROG/VOC emissions would be significant. Second, as discussed above, the IS/MND states:

> "A second-tier EIR will be required for the later development project if the project may cause significant effects on the environment that were not adequately addressed in the prior, first-tier EIR" (p. 3).

In addition, according to the WC2035 SP FEIR:

> "CEQA Guidelines section 15088.5 requires:

[1] "South Coast AQMD Air Quality Significance Thresholds." SCAQMD, April 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

(b) A lead agency is required to recirculate an EIR when significant new information is added to the EIR after public notice of its availability … "Significant new information" requiring recirculation include, for example, a disclosure showing that:

(2) A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented." (FEIR, p. 4-1).

As you can see, if a new significant impact would result from the Project, it is required that a new EIR be recirculated.

Here, as the FEIR did not find a significant air quality impact related to operational ROG/VOC emissions, the significant operational ROG emissions associated with the proposed Project should have been evaluated. As a result, we find the IS/MND and Memo to be inadequate in addressing our comment and we maintain our June 22nd comment the IS/MND's air quality impact significance determination should not be relied upon. Thus, the Project is required to recirculate a Project-specific EIR pursuant to CEQA Guidelines §15088.5 and the FEIR.

Furthermore, the City revised DIR Condition 2.d to allow the concurrent construction of phases, per the Applicant's request (Memo, Exhibit 2, Remaining Issues Condition Table). However, if the Project's construction phases would occur concurrently, then the overlapping emissions will be higher than what we originally reported, as we assumed these phases would occur consecutively. If the phases are instead occurring concurrently, these emissions would cumulatively be higher than each would be alone. Regardless, we find significant impacts, as described above, resulting from Project construction. However, if these phases occur concurrently, emissions may be higher and *further* exceed thresholds, indicating significant impacts potentially beyond what we have already reported.

Failure to Implement All Feasible Mitigation to Reduce Air Quality Impacts

As discussed in our June 22nd comment letter, the IS/MND fails to implement all feasible mitigation to reduce the Project's air quality impacts, before concluding that the impact would be significant and unavoidable. Review of the Memo demonstrates that the Project again fails to implement all feasible mitigation to reduce the Project's air quality impacts, or even address our prior comments. As a result, we find the Memo to be inadequate and maintain that the air quality impact significance determination is incorrect unsubstantiated.

Failure to Implement All Feasible Mitigation to Reduce GHG Impacts

As discussed in our June 22nd comment letter, the IS/MND fails to implement all feasible mitigation to reduce the Project's greenhouse gas ("GHG") impacts, before concluding that the impact would be significant and unavoidable. Review of the Memo demonstrates that the Project again fails to implement all feasible mitigation to reduce the Project's GHG impacts, or even address our prior comments. As a result, we find the Memo to be inadequate and maintain that the GHG impact significance determination is incorrect unsubstantiated.

Air Quality

Unsubstantiated Input Parameters Used to Estimate Project Emissions

In our June 22nd comment letter, we identified several issues with the IS/MND's air model (California Emissions Estimator Model, "CalEEMod")[2] that artificially reduced the Project's construction and operational emissions. After review of the Memo, we maintain that the analysis fails to address all of our concerns regarding the Project's flawed CalEEMod air model and fails to accurately estimate the Project's criteria air pollutant emissions. As such, we find the Memo to be inadequate and maintain that a Project-specific EIR should be prepared and recirculated to adequately evaluate the Project's local and regional air quality impacts. Until a proper analysis is conducted, the Project should not be approved.

Use of Incorrect Land Use Types and Sizes

As discussed in our June 22nd comment letter, the IS/MND's CalEEMod model fails to include the correct land use type and size values. Specifically, review of the Project's CalEEMod output files demonstrates that each Phase incorrectly models the size and type of parking, as well as fails to include the Project's proposed physical improvements. Review of the Memo demonstrates that the Project again fails to justify these modeling errors and omissions. As discussed below, we find the IS/MND and Memo to be inadequate and maintain that the air quality significance determination is unsubstantiated.

Regarding the use of incorrect land use types and sizes, the Memo states:

> "The CalEEMod User's Guide Appendix D, Default Data Tables, Table 8.1 shows the energy intensity (kWh per square foot of land use) of all available land use inputs. As shown, surface parking (i.e., parking lot) has a much lower overall energy intensity than both enclosed parking with elevator and unenclosed parking with elevator. Therefore, the Project analysis conservatively estimates energy use and emissions associated with the parking in each phase by defining surface parking as unenclosed parking with elevator rather than as parking lot" (p. 4).

Furthermore, the Memo states:

> "[T]he construction analysis assumes these physical improvements are included as part of their respective phases and relates to the increase in off-road equipment number and usage hours. Moreover, even if they were not assumed to be integrated into overall building construction per phase, the physical improvements mentioned would result in minute additions of emissions" (p. 4)

However, these justifications are incorrect for three (3) reasons.

First, simply because surface parking may have a lower *energy intensity* value than both enclosed and unenclosed parking with elevator, does not mean that surface parking has lower *overall emissions*. Furthermore, regardless of how the land use types and sizes impact Project emissions, the model should include the correct land use sizes and types, as described in the IS/MND in order to provide accurate estimates of emissions. As previously discussed in our June 22nd comment letter, these inconsistencies present an issue, as the land use type and size features are used throughout CalEEMod to determine

[2] http://caleemod.com/

default variable and emission factors that go into the model's calculations.[3] The square footage of a land use is used for certain calculations such as determining the wall space to be painted (i.e., VOC emissions from architectural coatings) and volume that is heated or cooled (i.e., energy impacts). As a result, the model may underestimate construction and operational-related emissions.

Second, the Project's assumption that physical improvements are included in the respective phases is incorrect. By only accounting for increases in "off-road equipment and usage hours", as stated above, and the IS/MND fails to consider all other factors that affect emissions, including on-road mobile equipment, fugitive dust, architectural coating activities, operational on-road vehicle traffic, area coating activities, landscaping equipment, and water usage, among other factors.[4] Furthermore, the Memo fails to provide substantial evidence to support it's claim that physical improvements would result in "*minute additions of emissions*." Without providing any substantial evidence to support this claim, the RTC fails to adequately justify the omission of these proposed land uses. As such, we maintain our June 22nd comment that the less-than-significant air quality impact conclusion should not be relied upon.

Third, while the Memo attempts to justify the models' use of incorrect land use types, the Memo fails to address or substantiate the incorrect land use *sizes*. As such, these errors remain unsubstantiated and we maintain our June 22nd comment that the less-than-significant air quality impact conclusion should not be relied upon.

Unsubstantiated Changes to Off-Road Construction Equipment Unit Amounts and Usage Hours

As discussed in our June 22nd comment letter, the IS/MND's CalEEMod models for Phases 1, 2, 3, 4, 7, and 8 included several unsubstantiated changes to the off-road construction equipment unit amounts and usage hours. Review of the Memo demonstrates that the Project again fails to justify these changes. As discussed below, we find the IS/MND and Memo to be inadequate and maintain that the air quality significance determination is unsubstantiated.

Regarding the unsubstantiated changes to the Project's off-road construction equipment unit amounts and usage hours, the Memo states:

> "While the CalEEMod User's Guide states that 'users are required to provide justification,' the full statement refers to the function of the user interface. The full text states, 'users are required to provide justification for all changes made to the default settings (e.g., reference more appropriate data sources) in the Remarks box provided at the bottom of the screen before the user will be able to proceed to the next screen.' (CalEEMod User's Guide, p. 1) *The justification referenced simply applies to a CalEEMod user input required to proceed to the next screen in the model and is not a binding requirement*" (emphasis added) (p. 5).

However, the Memo's claim that justifications are not a "binding requirement" is incorrect. The CalEEMod User's Guide states:

[3] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.caleemod.com/, p. 18.
[4] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.caleemod.com/, p. 2.

> "Comments are important because they show the user's justification for the modifications, which allows the reviewers the ability to determine whether or not the modifications are appropriate and sufficiently justified."[5]

As you can see in the excerpt above, justifications are necessary to assess whether or not the changes are adequately justified. Because the IS/MND's CalEEMod models fail to provide justifications for the changes to the Project's off-road construction equipment unit amounts and usage hours, we cannot verify the revised values. Furthermore, the Memo attempts to justify these changes by stating that "off-road inputs were based on Project-specific data for a maximum construction work day" (p. 5). However, the Project must disclose this "project-specific information," as otherwise, we cannot verify these changes. Without providing any substantial evidence to support this claim, the Memo fails to adequately address our comment. As such, we maintain our June 22nd comment that the IS/MND's modeling may underestimate the Project's construction-related emissions, and the less-than-significant air quality impact conclusion should not be relied upon.

Unsubstantiated Increase to Construction Schedule

As discussed in our June 22nd comment letter, the IS/MND's CalEEMod models include several unsubstantiated changes to the Project's anticipated construction schedules. Review of the Memo demonstrates that the Project again fails to justify these changes. As discussed below, we find the IS/MND and Memo to be inadequate and maintain the air quality impact significance determination to be unsubstantiated.

Regarding the unsubstantiated changes to the Project's anticipated construction schedules, the Memo states:

> "The Project construction assumptions are outlined for all eight Project phases in Appendix A and provided on pages 32, 80, 117, 150, 182, 214, 246, and 278 of the Tiered IS/MND. These construction assumptions include the start and end dates for each construction subphase under each Project phase. Thus, the Tiered IS/MND did not fail to justify the changes made to the default numbers for each construction subphase under each Project phase" (p. 5).

As you can see in the excerpt above, the Memo concludes that the Project construction assumptions provided in Appendix A to the IS/MND justify the changes to the anticipated construction schedule. However, this is incorrect. While the construction assumptions reflect the changes, they fail to provide any justification that these changes are actually correct. The IS/MND cannot simply *assume* that the construction schedules manually inputted into CalEEMod are correct. Simply providing the construction schedules that were inputted in to the CalEEMod models does not provide substantial evidence that these construction schedules are accurate. Rather than the CalEEMod changes substantiating the IS/MND, the IS/MND should substantiate the CalEEMod changes. As such, we cannot verify the revised construction schedules. Furthermore, while the Memo accurately states that *total* "Project construction assumptions are outlined for all eight Project phases in Appendix A," this does not substantiate the changes within each phase (i.e., Appendix A discloses the length of Phase 4, but not the length of demolition, site prep, grading, building construction, architectural coating, and paving, as required).

[5] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.caleemod.com/, p. 13.

These unsubstantiated changes present an issue, as spreading out construction emissions over a longer period than is expected results in an underestimation of the maximum daily emissions associated with Project construction. In addition, according to the CalEEMod User's Guide, each construction phase is associated with different emissions activities (see excerpt below).[6]

> *Demolition* involves removing buildings or structures.
>
> *Site Preparation* involves clearing vegetation (grubbing and tree/stump removal) and removing stones and other unwanted material or debris prior to grading.
>
> *Grading* involves the cut and fill of land to ensure that the proper base and slope is created for the foundation.
>
> *Building Construction* involves the construction of the foundation, structures and buildings.
>
> *Architectural Coating* involves the application of coatings to both the interior and exterior of buildings or structures, the painting of parking lot or parking garage striping, associated signage and curbs, and the painting of the walls or other components such as stair railings inside parking structures.
>
> *Paving* involves the laying of concrete or asphalt such as in parking lots, roads, driveways, or sidewalks.

As previously discussed in our June 22nd comment letter, by disproportionately altering individual construction phase lengths within each Phase's model, without proper justification, the models' calculations are altered and underestimate emissions. Thus, the Memo fails to justify the changes to each construction phase included in the model, which may alter and incorrectly distribute the model's emissions. As such, the IS/MND and Memo fail to justify the revised construction schedules and we maintain our June 22nd comment that the IS/MND's air quality significance determination should not be relied upon.

Unsubstantiated Reductions to Acres of Grading

As stated in our June 22nd letter, the IS/MND's CalEEMod models included several unsubstantiated reductions to the Project's acres of grading values. Specifically, acres of grading for were manually reduced in Phases 1-8 by 25.3-, 62.9-, 109.4-, 11.39-, 28.05-, 24.6-, 14.1-, 85.66-acres, respectively (Appendix A, pp. 35, 58, 83, 100, 120, 136, 153, 168, 185, 200, 217, 232, 249, 264, 281, 298). Review of the Memo demonstrates that the Project again fails to justify these changes. As discussed below, we find the IS/MND and Memo to be inadequate and maintain that the air quality impact significance determination is unsubstantiated.

Regarding the unsubstantiated changes to the Project's acres of grading, the Memo states:

> "[T]he amount of area graded is based on the number and types of equipment used for the construction phase. As discussed above in Sections 3.3 and 3.6, the off-road inputs were based on project-specific data for a maximum construction work day and provide a more conservative estimate of construction equipment usage compared to the model defaults, which results in greater calculated grading emissions. In other words, the total acres graded does not determine the daily emissions, it is determined by the number of grading equipment per construction phase per day, which have been conservatively used as model inputs" (emphasis added) (p.

[6] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.caleemod.com/, p. 31.

As you can see in the excerpt above, the Memo states that the acres of grading values are determined by the amount and type of construction equipment. While the Memo is correct that the acres of grading is determined by the amount and type of construction equipment, the Memo fails to address that the acres of grading values were further reduced, although they were already determined by the manually inputted construction equipment list. The default number of acres of grading is calculated based off of the Project's inputted number and type of construction equipment. As such, by manually reducing the Project's acres of grading values, despite the fact that the acres of grading were already calculated based on the manually inputted construction schedule, the models underestimate the Project's construction-related emissions. As such, we maintain our June 22nd comment that the Project's air quality impacts were inadequately evaluated and recommend that a Project-specific EIR be prepared that adequately evaluates and mitigates the Project's air quality impacts to a less-than-significant level.

Incorrectly Modeled Tier 4 Final Mitigation

As discussed in our June 22nd comment letter, the IS/MND's CalEEMod model assumed that construction equipment would be equipped with Tier 4 Final engines. Review of the Memo demonstrates that the Project again fails to justify the assumption that all construction equipment would be equipped with Tier 4 Final engines. As discussed below, we find the IS/MND and Memo to be inadequate and maintain that the air quality impact significance determination is unsubstantiated.

Regarding the Project's incorrect inclusion of Tier 4 Final construction equipment, the Memo states:

> "The Tiered IS/MND includes mitigation measure WC-AQ-1 from the Final EIR as Mitigation Measure AQ-1 in the Tiered IS/MND, which requires that all off road diesel-powered construction equipment greater than 50 hp shall meet the Tier 4 emission standards" (p. 6-7).

However, this justification is incorrect, because MM AQ-1 *still* does not specify between Tier 4 *Interim* or Tier 4 *Final* equipment mitigation. This presents an issue, as Tier 4 *Final* equipment is more efficient than Tier 4 *Interim* equipment. Thus, by modeling construction emissions with nearly a full Tier 4 *Final* equipment fleet, the IS/MND failed to account for higher emissions that may occur from the use of Tier 4 *Interim* equipment. As a result, we maintain our June 22nd comment that the IS/MND's modeling is incorrect and unsubstantiated, and the IS/MND's air quality significance determination should not be relied upon.

Furthermore, regarding the Project's failure to evaluate the feasibility of attaining Tier 4 construction equipment, the Memo states:

> "More recent evidence of the reasonable availability of cleaner construction equipment meeting the Tier 4 standard, especially the Tier 4 Final standard, is provided in the CARB OFFROAD2017 model. OFFROAD2017 is CARB's inventory tool for off-road diesel equipment that provides the population, emissions, fuel, and equipment information for off-road diesel vehicles. Any heavy-duty diesel equipment manufactured in 2015 or later, is required to meet the Tier 4 Final emission standards. Based on OFFROAD2017, the 2020 statewide construction fleet would include approximately 50,887 pieces of diesel equipment meeting Tier 4 Final emission standards, representing approximately 36 percent of the *statewide* construction fleet. Future years would see a further increase in the percentage of the *statewide* fleet meeting the Tier 4

> Final emission standards. Thus, it would be feasible for the Project to utilize Tier 4 Final equipment for equipment greater than 50 horsepower" (p. 7).

However, this justification is incorrect for two reasons. First, the Project fails to demonstrate the Tier 4 Final *statewide* construction fleet provided by the Memo would be accessible *locally* at the Project site. Second, simply because 36% of statewide equipment meets Tier 4 Final emission standards still does not guarantee the *feasibility* of utilizing *all* Tier 4 Final construction equipment throughout Project construction.

As a result, we maintain our June 22nd comment that the IS/MND's modeling is incorrect and unsubstantiated, and the IS/MND's air quality significance determination should not be relied upon

Unsubstantiated Inclusion of Operational Mitigation Measures

As stated in our June 22nd comment letter, the IS/MND's air model included several water- and waste-related operational mitigation measures. Review of the Memo demonstrates that the Project again fails to justify the inclusion of these operational mitigation measures. As discussed below, we find the Memo to be inadequate and maintain that the air quality significance determination is incorrect and unsubstantiated.

Regarding the water- and waste-related operational mitigation measures included in the CalEEMod model, the Memo states:

> "As stated in the Zero Waste Progress Report, the City achieved a landfill diversion rate of approximately 76 percent in 2012. Consistent with Mitigation Measure U-12 in the Tiered IS/MND (p. B-281), as incorporated from the Final EIR, the Project would be subject to the City's solid waste diversion measures, which would reduce the anticipated overall waste stream to area landfills. As stated in the MMP for the Project, pursuant to CEQA Guidelines Section 15097(a), a public agency is required to adopt a program for monitoring and reporting mitigation measures where required to mitigate or avoid significant environmental effects. The City, as the Lead Agency, is responsible for administering and implementing the MMP. Therefore, all mitigation measures that are applicable to the Project and as listed in the Tiered IS/MND (and the CPC's determination letter if it approves the Project) would be implemented" (p. 8).

As you can see in the excerpt above, the Memo attempts to justify the inclusion of these measures by stating that the Project would be consistent with Mitigation Measure U-12 in the Final EIR. However, this justification is wrong for three (3) reasons.

First, this justification fails to mention or substantiate any water-related operational mitigation measure, including "Install Low-Flow Water Fixtures" and "Use Water-Efficient Landscape Irrigation Systems". As these measures were manually inputted into the models, the justification should have addressed them. By failing to address these measures, and our June 22nd comments about them, the Memo allows the Project's modeling to remain incorrect and unsubstantiated.

Second, while the IS/MND claims that the Project is subject to the City's waste diversion methods and implementation, this claim is unsubstantiated. Just because the *City* has waste diversion methods does

not mean that these methods will be implemented *locally, on the Project-site*. As discussed in our June 22nd comment letter, and further explained above, the Project incorrectly relies on the Final EIR and as such, this justification fails to substantiate the inclusion of this measure. As such, the IS/MND and Memo fail to justify the inclusion and implementation of the waste-related operational mitigation measure.

Third, the Memo fails to address our comments regarding CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* document. As such, the inclusion of these operational mitigation measures is unsubstantiated, as the IS/MND and Memo again fail to demonstrate that the Project would implement these measures consistent with CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* document. As previously stated, according to the CalEEMod User's Guide,

> "The mitigation measures included in CalEEMod are largely based on the CAPCOA Quantifying Greenhouse Gas Mitigation Measures (http://www.capcoa.org/wp-content/uploads/downloads/2010/09/CAPCOA-Quantification-Report-9-14-Final.pdf) document. The CAPCOA measure numbers are provided next to the mitigation measures in CalEEMod to assist the user in understanding each measure by referencing back to the CAPCOA document."[7]

However, the IS/MND and Memo *again* fail to mention or demonstrate consistency with the mitigation measures included in the model based on CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* document (see table below).

Measure	Consistency
CAPCOA's Quantifying Greenhouse Gas Mitigation Measures[8]	
Water Measures	
Measure WUW-1 Install Low-Flow Water Fixtures *"Installing low-flow or high-efficiency water fixtures in buildings reduces water demand, energy demand, and associated indirect GHG emissions."* The following information needs to be provided by the Project Applicant: • Total expected indoor water demand, without installation of low-flow or high-efficiency fixtures (million gallons), AND	Here, as stated in our June 22nd comment letter, no justification is provided in the "User Entered Comments & Non-Default Data" table. Furthermore, MM U-4 in the "Summary of Recommend Project Mitigation Measures" of the WC2035 SP states: "The Applicant shall implement water conservation measures in new development that shall include, but not be limited to, the following: • Installation of high-efficiency toilets (1.28 gallons per flush or less, includes dual flush • High-efficiency urinals (0.125 gallons per flush or less, includes waterless)

[7] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.caleemod.com/, p. 53.
[8] "Quantifying Greenhouse Gas Mitigation Measures." CAPCOA, August 2010, *available at:* http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf.

• Total expected indoor water demand, after installation of low-flow or high-efficiency fixtures (million gallons), OR • Commitment to low-flow or high-efficiency water fixtures (toilets, showerheads, sink faucets, dishwashers, clothes washers, or all of the above)	• Restroom faucet flow rate of 1.5 gallons per minute or less • Public restroom faucet flow rate of 0.5 gallons per minute or less and self-closing • Showerhead flow rate of 2.0 gallons per minute or less" (p. B-85). However, this mitigation measure is ***recommended*** by the WC2035 FEIR and not ***required*** to be implemented, monitored, and enforced on the Project site (p. B-84). In addition, while the WC2035 SP includes this measure, it is not mentioned or included in the IS/MND whatsoever. These issues were all presented in our June 22nd comment letter and remain unaddressed in the Memo. Thus, the IS/MND fails to commit to the measure's implementation, and the inclusion of this measure in the Project's CalEEMod model is unsubstantiated.
Measure WUW-4 Use Water-Efficient Landscape Irrigation Systems *"Using water-efficient landscape irrigation techniques such as "smart" irrigation technology reduces outdoor water demand, energy demand, and the associated GHG emissions."* The following information needs to be provided by the Project Applicant: • Total expected outdoor water demand, without installation of smart landscape irrigation controller (million gallons). • Project-specific percent reduction in outdoor water demand, after installation of smart landscape irrigation controller. Percent reduction must be verifiable. Otherwise, use the default value of 6.1%. Baseline Method: GHG emissions = $Water_{baseline}$ x Electricity x Utility	Here, as stated in our June 22nd comment letter, no justification is provided in the "User Entered Comments & Non-Default Data" table. Furthermore, MM AQ-22 in the "Summary of Recommend Project Mitigation Measures" of the WC2035 SP states: "All landscaping shall be required to be drought tolerant to reduce water consumption and provide passive solar benefits" (p. B-44). However, this mitigation measure is ***recommended*** by the WC2035 FEIR and not ***guaranteed*** to be implemented, monitored, and enforced on the Project site (p. B-44). In addition, while the WC2035 SP includes this measure, it is not mentioned or included in the IS/MND whatsoever. These issues were all presented in our June 22nd comment letter and remain unaddressed in the Memo. Thus, the IS/MND fails to actually commit to the implementation of this measure, and the inclusion of this measure in the Project's CalEEMod model is unsubstantiated.

Where: GHG emissions = MT CO_2e $Water_{baseline}$= Total expected outdoor water demand, without installation of smart landscape irrigation controllers (million gallons) Electricity = Electricity required to supply, treat, and distribute water (kWh/million gallons) • Northern California Average: 3,500 kWh/million gallons • Southern California Average: 11,111 kWh/million gallons • Utility = Carbon intensity of Local Utility (CO2e/kWh)	
Waste Measures	
Measure SW-1 Institute Recycling and Composting Services *"Current protocols for quantifying emissions reductions from diverted landfill waste developed by the USEPA and the California Center for Integrated Waste Management Board (CIWMB) are based on life-cycle approaches, which reflect emissions and reductions in both the upstream and downstream processes around waste management. The Project Applicant should seek local agency guidance on comparing and/or combining operational emissions inventories and life cycle emissions inventories… To take credit for this measure, the Project Applicant would need to provide detailed and substantial evidence supporting the amount of waste reduced or diverted to recycling and composting due to the institution of extended recycling and composting services."* *"USEPA's Waste Reduction Model (WARM) is used to quantify baseline emissions and emissions reductions from diverting landfill*	Here, as stated in our June 22nd comment letter, the "User Entered Comments & Non-Default Data" table, the justification provided for the Inclusion of this measure is: "Per City of LA Zero Waste Plan" (Appendix A, pp. 315, 324). In addition, the IS/MND discusses the City's 2013 *Zero Waste Progress Report* and the State's AB 341 (p. B-110, Table B-10). However, this is incorrect for several reasons. First, as stated in the IS/MND, "AB 341 directs **CalRecycle** to develop and adopt regulations" for commercial recycling. As such, this does not apply at the Project-level and the IS/MND fails to demonstrate that anything will be implemented on the Project-site specifically. Second, as stated by the IS/MND, AB 341 contains *statewide* reduction *goals* for the year 2020. As the proposed Project will be constructed after 2020, AB 341 does not apply. Also, just because the *State* has these *goals* does not mean that they will be achieved locally at the Project site. Third, the IS/MND's use of the outdated 2013 *Zero Waste Progress Report* is incorrect and unsubstantiated. As the proposed Project will be constructed for at least fifteen years, beginning in 2020 or later, waste reductions from 2013 do not apply. The CalEEMod model was also most recently updated in 2016, so

waste to composting or recycling. This webbased tool is available online… The required inputs are the tons of waste associated with one of three waste management practices: landfill (baseline scenario), recycled (mitigated scenario), combusted (not applicable in California), and composted (mitigated scenario)." The following information needs to be provided by the Project Applicant: • For residential buildings: # of residents • For shopping malls and office buildings: building square footage • For public venues: annual # visitors • For all other commercial buildings: # of employees • Waste disposal method • Amount of waste reduced or diverted to recycling and composting due to the institution of extended recycling and composting services.	any reductions prior to this date would be included in the model, such as 2013 reductions. Fourth, AB 341 contains municipal recycling goals, but fails to apply to composting whatsoever. As such, implementing a measure that assumes <u>*both recycling and composting*</u> is incorrect and unsubstantiated. Finally, the IS/MND fails to address the measure as it is described in the CAPCOA guidance document, including a life-cycle approach, local agency guidance, the specific amount of waste reduced or diverted to recycling and composting due to the institution of this measure, number of employees, and waste disposal method. The IS/MND also fails to mention or utilize WARM in order to quantify baseline emissions and emissions reductions. These issues were all presented in our June 22nd comment letter and remain unaddressed in the Memo. Thus, the IS/MND fails to actually commit to the implementation of this measure, and the inclusion of this measure in the Project's CalEEMod model is unsubstantiated.

As you can see in the table above, the IS/MND and Memo fail to provide adequate detail or meaningful information to substantiate the inclusion of these water- and waste-related operational mitigation measures according to CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* document and the CalEEMod User's Guide. As a result, we maintain our June 22nd comment that the inclusion of these measures in the model is incorrect and unsubstantiated and that the IS/MND's air quality significance determination should not be relied upon.

Diesel Particulate Matter Health Risk Emissions Inadequately Evaluated

As discussed in our June 22nd comment letter, the IS/MND fails to adequately evaluate the proposed Project's potential health risk impacts. As discussed below, we find the Memo to be inadequate and maintain that the IS/MND's less-than-significant health risk impact conclusion should not be relied upon for the following four (4) reasons:

First, regarding the IS/MND's failure to adequately evaluate the Project's potential health risk impacts, the Memo states:

> "[T]his topic was adequately addressed in the Final EIR and is fully applicable to the Project and no further analysis is required under CEQA" (p. 8).

As you can see in the excerpt above, the Memo restates that the Project's health risk impacts were evaluated in the FEIR. However, this is incorrect, as the FEIR states:

> "Without project specific information on proposed uses, locations and construction schedules, construction emissions for individual projects cannot be quantified" (p. 4.2-32).

As you can see in the excerpt above, the FEIR did not evaluate the emissions resulting from the proposed Project as the necessary, Project-specific construction information was not available at the time the FEIR was approved. Thus, the IS/MND leaves a gap within the Project's analysis and the claim that the Project's health risk impacts were previously analyzed is incorrect. Without conducting a quantified HRA, we cannot verify that Project-related impacts are less than significant.

Furthermore, according to the FEIR:

> "CEQA Guidelines section 15088.5 requires:
>
> (a) A lead agency is required to recirculate an EIR when significant new information is added to the EIR after public notice of its availability … "Significant new information" requiring recirculation include, for example, a disclosure showing that:
>
> (1) A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented." (FEIR, p. 4-1).

As you can see, if a new significant impact would result from the Project, it is required that a new EIR be recirculated. As demonstrated in our August 19th comment letter, the proposed Project will result in new significant health risk impacts not previously identified or addressed in the FEIR. As such, the Project is required to recirculate a Project-specific EIR pursuant to CEQA Guidelines §15088.5 and the FEIR.

Second, regarding the IS/MND's failure to adequately evaluate the Project's potential health risk impacts, the Memo states:

> "[T]he SCAQMD and the City do not require preparation of a construction HRA and the use of the Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for the Preparation of Risk Assessments (Guidance Manual) is neither required nor appropriate" (p. 8). "The SCAQMD has stated that "SCAQMD currently does not have guidance on construction Health Risk Assessments."[2]" (p. 8).

As you can see in the excerpt above, the Memo claims that SCAQMD and the City do not require the preparation of a construction HRA, and the use of OEHHA guidance is not applicable. However, this is incorrect, as the FEIR directly contradict this claim. Specifically, according to the FEIR:

> "The project applicant shall retain a qualified air quality consultant to prepare a health risk assessment (HRA) in accordance with the California Air Resources Board and the Office of Environmental Health and Hazard Assessment requirements to determine the exposure of project residents/occupants/users to stationary air polluters prior to issuance of a demolition, grading, or building permit. The HRA shall be submitted to the Lead Agency for review and approval. The applicant or implementation agency shall implement the approved HRA recommendations, if any" (FEIR, p. V-10, Table Mitigation Monitoring Program).

As you can see, the WC2035 SP FEIR explicitly states that HRAs should be conducted in accordance with OEHHA guidance. As such, the Memo's claim that OEHHA guidance is "neither required nor appropriate" is incorrect and directly contradicts the WC2035 SP that the proposed Project is supposedly consistent with. Furthermore, none of the documents cited in Footnote 2 include the quote as indicated by the Memo: "SCAQMD currently does not have guidance on construction Health Risk Assessments."[2] As such, we cannot verify that the Memo's interpretation of these guidance documents is correct.

Moreover, the SCAQMD does recommend the preparation of an HRA for projects that emit TACs, and for this Project specifically. Furthermore, according to SCAQMD guidance:

> "Projects that emit toxic air contaminants (TAC) typically undergo an analysis of localized air quality impacts *relative to cancer and non-cancer health risks*" (emphasis added).[9]

Moreover, CAPCOA guidance indicates that diesel exhaust and other carcinogenic chemicals emitted by cars and trucks "are responsible for much of the overall cancer risk from airborne toxics in California."[10] Given that the Project is expected to generate 17,831 daily vehicle trips, according to the Traffic Volume Review ("TVR") provided as Appendix K to the IS/MND, as well as additional truck trips throughout construction, the Project would, in fact, generate TACs and should be adequately evaluated pursuant to SCAQMD guidance (Appendix K, pp. 35, Table 1). Here, however, health impacts from exposure to toxic air contaminants ("TACs"), including DPM, were not analyzed relative to cancer health risks, thus leaving a gap in the IS/MND and Memo's analysis. Additionally, the SCAQMD's Mobile Source Toxics Analysis page states that:

> "SCAQMD staff revised the aforementioned document to expand the analysis to provide technical guidance for analyzing cancer risks from potential diesel particulate emissions impacts from truck idling and movement"[11]

Thus, the guidance clearly indicates that the facilities, which would involve significant "truck idling and movement," should analyze the cancer risks associated with potential diesel particulate emissions. As such, the Project should have prepared a quantified analysis of the Project's potential health risk impacts, pursuant to SCAQMD guidance. Finally, as previously stated in our June 22nd comment letter, the omission of a quantified HRA to nearby, existing sensitive receptors is inconsistent with the SCAQMD guidance, as it fails to compare the excess health risk to the SCAQMD's specific numeric threshold of 10 in one million.[12] Thus, a Project-specific EIR should be prepared and recirculated to include an analysis of the Project's health risk impact demonstrating that impacts would be less than significant, including a quantification of emissions to compare to the proper threshold. As such, we maintain our June 22nd

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[9] "Fact Sheet: Localized Significance Thresholds." SCAQMD, *available at:* file:///C:/Users/SWAPE/Downloads/SCAQMD%20LST%20Fact%20Sheet.pdf, p. 2.
[10] "Health Risk Assessments for Proposed Local Land Use Projects." CAPCOA, July 2009, *available at:* http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA_HRA_LU_Guidelines_8-6-09.pdf, p. 8.
[11] "Mobile Source Toxics Analysis." SCAQMD, *available at:* http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.
[12] "South Coast AQMD Air Quality Significance Thresholds." SCAQMD, April 2019, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2

comment that the Project's health risk impacts have not been adequately evaluated by the IS/MND and Memo.

Third, the Memo claims that an HRA for construction activities is not recommended by the City, stating:

> "Furthermore, the City's 2006 L.A. CEQA Thresholds Guide does not recommend an HRA for diesel particulate matter emissions from construction activities" (p. 8).

However, this is incorrect. Review of the 2006 L.A. CEQA Thresholds Guide demonstrates that the guidance does, in fact, indicate that TACs from construction, as well as, operation be considered. Specifically, the Guide states:

> "Impacts from toxic air contaminants can occur during either the construction or operational phases of a project. During certain construction activities, potential releases of toxic air contaminants could occur during site remediation activities, or during building demolition."[13]

As such, the Memo misinterprets the 2006 L.A. CEQA Thresholds Guide and we maintain our June 22nd comment that the Project's construction-related health risk impact should have been evaluated by the IS/MND.

Fourth, the Memo reiterates that OEHHA Guidance is not applicable to local land use projects, stating:

> "The SCAQMD has clarified that the OEHHA Guidance Manual are not CEQA significance thresholds applicable to construction or to non-stationary source projects such as the proposed Project, and SCAQMD staff is still evaluating how to implement the Guidance Manual under CEQA for construction and non-stationary source projects. To date, the SCAQMD has not conducted public workshops nor developed policy relating to the applicability of applying the revised 2015 OEHHA Guidance Manual for projects prepared by other public/lead agencies subject to CEQA or for mixed-use residential and commercial projects, such as the proposed Project" (p. 8-9).

However, this directly contradicts the WC2035 SP, which explicitly discusses the use of OEHHA guidance, as previously described. Furthermore, the Memo fails to provide a source for the claim that "SCAQMD has clarified that the OEHHA Guidance Manual are not CEQA significance thresholds applicable to construction or to non-stationary source projects." As such, this claim is unsupported. Furthermore, SCAQMD Governing Board Agenda #8b demonstrates that the SCAQMD *does* consider the OEHHA Guidance to be applicable to new land use projects pursuant to CEQA.[14] As a result, we reiterate the applicability of the OEHHA Guidance to the proposed Project. As previously stated in our June 22nd letter, the omission of a quantified HRA is inconsistent with the most recent guidance published by the Office of Environmental Health Hazard Assessment ("OEHHA"), the organization responsible for providing recommendations and guidance on how to conduct HRAs in California. As such, we maintain

[13] "L.A. CEQA THRESHOLDS GUIDE." City of Los Angeles, 2006, *available at:* https://planning.lacity.org/eir/CrossroadsHwd/deir/files/references/A07.pdf, p. B.3-2.
[14] "Potential Impacts of New OEHHA Risk Guidelines on SCAQMD Programs." SCAQMD, 2014, *available at:* http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2014/may-specsess-8b.pdf

this comment, and recommend that a Project-specific EIR be prepared and recirculated to include a quantified construction and operational HRA.

SWAPE has received limited discovery regarding this project. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

Sincerely,

Matt Hagemann, P.G., C.Hg.

Paul E. Rosenfeld, Ph.D.

LOS ANGELES CITY PLANNING COMMISSION

200 North Spring Street, Room 272, Los Angeles, California, 90012-4801, (213) 978-1300
www.planning.lacity.org

LETTER OF DETERMINATION

MAILING DATE: JANUARY 13, 2021

Case No. VTT-74891-1A Council District: 3 – Blumenfield
CEQA: ENV-2017-1706-MND;
ENV-2008-3471-EIR; SCH No. 1990011055
Plan Area: Canoga Park – Winnetka – Woodland Hills – West Hills
Related Case: DIR-2017-1708-SPP-1A

Project Site: 20920 – 20970 West Warner Center Lane;
20935 – 21051 West Warner Center Lane;
20931 – 21041 West Burbank Boulevard

Applicant: Michael Adler, LLJ Adler WCCI, LLC & LLJ Adler, WCCII, LLC
c/o Adler Realty Investments, Inc.
Representatives: Brad Rosenheim and Jessica Pakdaman,
Rosenheim and Associates, Inc.

Appellants: Michael Adler, LLJ Adler WCCI, LLC & LLJ Adler, WCCII, LLC
c/o Adler Realty Investments, Inc.

Southwest Regional Council of Carpenters
Representative: Mitchell M. Tsai, Mitchell M. Tsai, Attorney at Law, P.C.

Coalition for Valley Neighborhoods
Representative: Gina K. Thornburg, PhD

At its meeting of **August 13, 2020**, the Los Angeles City Planning Commission took the actions below in conjunction with the approval of the following Project:

Demolition of 340,339 square feet of 12 one- two- and three-story office buildings, and the construction of a Master Planned, Multiple-Phased, Mixed Use development with up to 2,634,268 square feet of combined residential and non-residential floor area on a 1,062,923 square foot lot before dedications. At the conclusion of Phase 8, there will be spread across 10 buildings on eight new lots: a total of 1,175,513 square feet of Residential Floor Area; a maximum of 1,009 dwelling units including 68 Work-Live units; approximately 1,458,755 square feet of Non-Residential Floor Area, including 70,861 square feet of portions of the 68 Work-Live units, 85,545 square feet of commercial space, 4,068 square feet of community space, 16,734 square feet of office support space, 1,124,012 square feet of office space, and 228 hotel rooms. The Project includes buildings of varying heights not to exceed 350 feet, a minimum of five local-serving retail spaces that individually do not exceed 5,000 square feet, and a new private street. The Project also includes a maximum of 5,548 vehicle parking spaces inclusive of 17 surface and 28 street parking spaces, 870 long-term bicycle parking spaces, and 264 short-term bicycle parking spaces. The Project also includes a New Street labeled Warner Center Lane, and 121,683 square feet (approximately 5.3 acres) of Publicly Accessible Open Space (PAOS).

1. **Found**, pursuant to CEQA Guidelines Sections 15168(c)(1) and 15074(b), after consideration of the whole of the administrative record, including the Mitigated Negative Declaration, No. ENV-2017-1706-MND, as circulated on December 19, 2019 ("Mitigated Negative Declaration"), the Warner Center 2035 Program EIR, No. ENV-2008-3471-EIR, SCH No. 1990011055 certified on October 23, 2013 ("Warner Center PEIR") and all comments received, with the imposition of mitigation measures included in the Mitigated Negative Declaration and applicable mitigation measures included in the Warner Center PEIR, there is no substantial evidence that the Project will have any significant effects on the environment that were not examined in the Warner Center PEIR; **Found** the Mitigated Negative Declaration reflects the independent judgment and analysis of the City; **Found** the mitigation measures included in the Mitigated Negative Declaration and the applicable mitigation measures included in the Warner Center PEIR have been made enforceable conditions on the Project; and **Adopted** the Mitigated Negative Declaration and the Mitigation Monitoring Program prepared for the Mitigated Negative Declaration;
2. **Denied** the appeal of Mitchell M. Tsai (Southwest Regional Council of Carpenters) and **sustained** the Planning Director's Determination dated March 23, 2020;
3. **Denied** the appeal of Gina K. Thornburg (Coalition for Valley Neighborhoods) and **sustained** the Planning Director's Determination dated March 23, 2020;
4. **Granted** the appeal **in part** and **denied** the appeal **in part** of Michael Adler, **sustained** the Planning Director's Determination dated March 23, 2020;
5. **Approved**, pursuant to Sections 17.03 and 17.15 of the Los Angeles Municipal Code, an eight-phased Vesting Tentative Tract Map No. 74891 to merge and re-subdivide the Project site, located at 20920 – 20970 W Warner Center Lane, 20935 – 21051 W Warner Center Lane, and 20931 – 21041 W Burbank Boulevard, for a maximum of eight parcels (Lots 1 through 8), including Lot 5 on which a new building with 168 residential condominium units would be developed, and Warner Center Lane (a private street), as shown on revised map stamp-dated June 7, 2019. This unit density is based on the Warner Center 2035 Specific Plan;
6. **Adopted** the attached Modified Conditions of Approval; and
7. **Adopted** the attached Findings.

The vote proceeded as follows:

Moved: Millman
Second: Perlman
Ayes: Ambroz, Choe, Khorsand, Leung, Mack, Padilla-Campos
Absent: Mitchell

Vote: 8 – 0

Cecilia Lamas (Electronic Signature due to COVID-19)

Cecilia Lamas, Commission Executive Assistant
Los Angeles City Planning Commission

Fiscal Impact Statement: There is no General Fund impact as administrative costs are recovered through fees.

Effective Date/Appeals: The decision of the Los Angeles City Planning Commission is further appealable to the Los Angeles City Council within 10 days after the mailing date of this determination letter. Any appeal not filed within the 10-day period shall not be considered by the Council and the decision of the City Planning Commission will become final and effective upon the close of the 10-day appeal period. All appeals shall be filed on forms provided at the Planning Department's Development Service Centers located at: 201

North Figueroa Street, Fourth Floor, Los Angeles; 6262 Van Nuys Boulevard, Suite 251, Van Nuys; or 1828 Sawtelle Boulevard, West Los Angeles.

FINAL APPEAL DATE: JANUARY 25, 2021

Notice: An appeal of the CEQA clearance for the Project pursuant to Public Resources Code Section 21151(c) is only available if the Determination of the non-elected decision-making body (e.g., ZA, AA, APC, CPC) **is not further appealable** and the decision is final.

If you seek judicial review of any decision of the City pursuant to California Code of Civil Procedure Section 1094.5, the petition for writ of mandate pursuant to that section must be filed no later than the 90th day following the date on which the City's decision became final pursuant to California Code of Civil Procedure Section 1094.6. There may be other time limits which also affect your ability to seek judicial review.

Attachment: Modified Conditions of Approval, Findings, Interim Appeal Filing Procedures, Appeals Fact Sheet

c: Blake Lamb, Principal City Planner
Michelle Levy, Senior City Planner
Tim Fargo, City Planner

CONDITIONS OF APPROVAL

(As modified by the City Planning Commission at its meeting on August 13, 2020)

In accordance with provisions of Section 17.03 and 17.15 of the Los Angeles Municipal Code (LAMC), the Advisory Agency determines that the Initial Study / Mitigated Negative Declaration (IS/MND) tiers from the Warner Center 2035 Program EIR, No. ENV-2008-3471-EIR, SCH No. 1990011055 ("Warner Center PEIR") pursuant to CEQA Guidelines 15152 and 15168; that the IS/MND analyzes potential environmental impacts that were not examined as significant effects on the environment in the Warner Center PEIR, or were susceptible to substantial reduction or avoidance by the choice of specific revisions in the project, by the imposition of conditions, or other means; that revisions in the project were made and agreed to by the applicant before the proposed IS/MND was released for public review which would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur; that there is no substantial evidence, in light of the whole record before the agency, that the project as revised may have a significant effect on the environment; that the IS/MND reflects the independent judgment and analysis of the City; and approves an eight-phased Vesting Tentative Tract Map (VTTM 74891) to merge and re-subdivide the Project site, located at 20920 – 20970 W Warner Center Lane, 20935 – 21051 W Warner Center Lane, and 20931 – 21041 W Burbank Boulevard, for a maximum of eight (8) parcels (Lots 1 through 8), including Lot 5 on which a new building with 168 residential condominium units would be developed, and Warner Center Lane (a private street), as shown on revised map stamp-dated June 7, 2019. This unit density is based on the Warner Center 2035 Specific Plan. The subdivider is hereby advised that the LAMC may not permit this maximum approved density. Therefore, verification should be obtained from the Department of Building and Safety which will legally interpret the Zoning Code as it applies to this particular property.

The Advisory Agency's approval is subject to the following conditions:

NOTE on clearing conditions: When two or more **agencies** must clear a condition, subdivider should follow the sequence indicated in the condition. For the benefit of the applicant, subdivider shall maintain record of all conditions cleared, including all material supporting clearances and be prepared to present copies of the clearances to each reviewing agency as may be required by its staff at the time of its review.

BUREAU OF ENGINEERING - SPECIFIC CONDITIONS

A Bonding and Phasing matrix for each Project Phase, identifying the required dedications and improvements by phase, shall be approved by the Bureau of Engineering prior to the issuance of any permit for the proposed project. A copy of the Bonding and Phasing Matrix shall be included in the project case file.

In the event the subdivider decides not to request a permit before the recordation of the final map, a covenant and agreement satisfactory to the Advisory Agency guaranteeing the submission and approval of such Bonding and Phasing Matrix before obtaining any permit shall be recorded.

The tract will be permitted to record with final map units in a number and sequence satisfactory to the Advisory Agency. The subdivider shall submit the Unit Map fee, a Unit Map showing the boundaries of all units and the Unit Number(s) of each Unit Map(s). Dedications and improvements for each unit map shall be phased in-line with the Unit Map(s) boundaries satisfactory to the City Engineer.

Any questions regarding this report should be directed to Mr. Georgic Avanesian of the Land Development Section, located at 201 North Figueroa Street, Suite 290, or by calling (213) 808-8588.

1. That an 18-foot wide strip of land be dedicated along De Soto Avenue adjoining the subdivision to complete a 68-foot wide half right-of-way dedication in accordance with Modified Boulevard II Standards of LA Mobility Plan. In addition, a 20-foot radius property line return be dedicated at intersection with Burbank Boulevard adjoining the tract.

2. That an additional 12-foot wide public sidewalk easement be provided along De Soto Avenue adjoining the public street dedication stated above in accordance with Warner Center Specific Plan.

3. That a 2-foot wide strip of land be dedicated along Burbank Boulevard adjoining the subdivision to complete a 45-foot wide half right-of-way dedication in accordance with **Modified Avenue I** Standards of LA Mobility Plan.

4. That an additional 6-foot wide public sidewalk easement be provided along De Burbank Boulevard adjoining the public street dedication stated above in accordance with Warner Center Specific Plan.

5. That a minimum 64-foot and variable width private street easement be provided as shown on the **revised tentative map stamp dated June 7, 2019** including 20-foot radius property easement returns at the intersections with Burbank Boulevard and De Soto Avenue all on alignments satisfactory to Valley District Engineering Office. The existing private street easement shall be located within the new proposed private street easement. In the event any portion of the existing private street easement area is outside of the new proposed private street easement area then a revised map shall be submitted for approval.

6. That the full width of the proposed private street be dedicated as a sanitary sewer easement.

7. That the private street easement be part of the adjoining parcels.

8. That the owners of the property record an agreement satisfactory to the City Engineer stating that they will grant the necessary easements for ingress, egress and public facilities over the private street area upon the sale of the respective lots and they will maintain the private street, free and clear of obstructions and in a safe condition for vehicular use at all times.

9. That a Covenant and Agreement be recorded stating that private street will be posted in a manner prescribed in Section 18.07 of the Los Angeles Municipal Code" Private Street Regulations".

10. That a Covenant and Agreement be recorded advising all future owners and builders that prior to issuance of a building permit, a Notice of Acknowledgment of Easement must be recorded and an application to do work adjoining any drainage and sewer easements and to construct adjoining the existing drainage and sewer facilities must be submitted to the City Engineer for approval.

11. That satisfactory arrangements be made with the Valley District B-permit Section for abandoning or privatizing the existing public sewer system within the tract property. In the event that the above system is to be abandoned then abandonment shall be completed prior to the recordation of the final map.

12. That in the event that satisfactory arrangements have been made with the valley District Engineering District regarding the abandonment and or privatizing of the existing sewer system then the existing public sewer easement within the tract area be permitted to be merged with the remainder of the tract map pursuant to Section 66499.20.2 of the State Government Code, and in addition, the following conditions be executed by the applicant and administered by the City Engineer:

    a. That consents to easements being merged and waivers of any damages that may accrue as a result of such mergers be obtained from all property owners who might have certain rights in the area being merged.

    b. That satisfactory arrangements be made with all public utility agencies maintaining existing facilities within the area being merged.

13. That all existing public sewer and drainage easements not being merged including any public drainage easement for LA County be shown on the final map.

14. That the subdivider make a request to the Valley District Office of the Bureau of Engineering to determine the capacity of existing sewers in this area.

15. That the following improvements be either constructed prior to recordation of the final map or that the construction be suitably guaranteed:

    a. After submittal of hydrology and hydraulic calculations and drainage plans for review by the City Engineer prior to recordation of the final map, construction of public/or private drainage facilities within suitable easements may be required satisfactory to the Valley District Engineering.

    b. Improve De Soto Avenue being dedicated and adjoining the subdivision by the construction of the following:

        i. A concrete curb, a concrete gutter, and an 8-foot concrete sidewalk and landscaping of the parkway.

        ii. Suitable surfacing to join the existing pavement and to complete a 56-foot half roadway.

        iii. Any necessary removal and reconstruction of existing improvements.

        iv. The necessary transitions to join the existing improvement.

    c. Improve all newly dedicated corner cuts with concrete sidewalks.

    d. Improve Burbank Boulevard being dedicated and adjoining the subdivision by the removal of existing curb, gutter and sidewalk and construction of the new concrete curb, gutter and an 8-foot concrete sidewalk and landscaping of the parkway, including any necessary removal and reconstruction of existing improvement.

    e. Improve the private street being provided by the construction of the following:

        i. Construct additional concrete sidewalks to complete minimum 6-foot wide sidewalks.

ii. Construct suitable surfacing to provide 32-foot wide minimum roadway or maintain the existing 44-foot wide private street roadways as approved under P-30435.

f. Construct any necessary on-site main line sewers including house connections satisfactory to the Valley District Office.

DEPARTMENT OF BUILDING AND SAFETY, GRADING DIVISION

Grading Division approvals are conducted at 221 North Figueroa Street, 12th Floor suite 1200. The approval of this Tract Map shall not be construed as having been based upon a geological investigation such as will authorize the issuance of the building permit of the subject property. Such permits will be issued only at such time as the Department of Building and Safety has received such topographic maps and geological reports as it deems necessary to justify the issuance of such building permits.

16. The Soils Report Approval Letter for the Project issued by the Grading Division of the Department of Building and Safety, dated March 10, 2020, and the geotechnical reports referenced therein are acceptable, provided the following conditions are complied with during site development:

a. The Soils Report Approval Letter is only applicable for the purpose of the approval of VTTM 74891. No grading or building permits shall be issued based on the Soils Report Approval Letter and the reports referenced therein.

b. Prior to the issuance of grading or building permits with respect to each project phase, a comprehensive soils report shall be submitted to the Grading Division for review and approval with respect to such project phase.

DEPARTMENT OF BUILDING AND SAFETY, ZONING DIVISION

An appointment is required for the issuance of a clearance letter from the Department of Building and Safety. The applicant is asked to contact Eric Wong at (213) 482-6876 to schedule an appointment.

17. <u>That prior to recordation of the final map</u>, the Department of Building and Safety, Zoning Division shall certify that no Building or Zoning Code violations exist on the subject site. In addition, the following items shall be satisfied:

a. Obtain permits for the demolition or removal of all existing structures on the site. Accessory structures and uses are not permitted to remain on lots without a main structure or use. Provide copies of the demolition permits and signed inspection cards to show completion of the demolition work.

b. Provide a copy of affidavit AF-89-1492311-MB, AF-96-227272-OB, AFF-53017, AFF-53018, AFF-55688, AFF-55689, AFF-5588, AFF-56892, AFF-56893, AFF-56894, AFF-56895, AFF-56896, AFF-56896, AFF-56897, AFF-56942, AFF-56981, AFF-64958, OB-14529, OB-14553, OB-14557 and PKG-5567. Show compliance with all the conditions/requirements of the above affidavit(s) as applicable. Termination of above affidavit(s) may be required after the Map has been recorded. Obtain approval from the Department, on the termination form, prior to recording.

c. Provide a copy of CPC case CPC-2008-3470-SP-GPA-ZC-SUD-BL and CPC-22423-ZBA. Show compliance with all the conditions/requirements of the CPC case(s) as applicable.

d. Show all street dedication(s) as required by Bureau of Engineering and provide net lot area after all dedication. "Area" requirements shall be re-checked as per net lot area after street dedication. Front and side yard requirements shall be required to comply with current code as measured from new property lines after dedication(s).

e. Private Street shall comply with both Fire Department and Bureau of Engineering conditions.

Notes:

Each Unit Map shall be clear once all applicable above Zoning conditions have been satisfied.

This property is located within the Warner Center Specific Plan Area and requires to comply with the Warner Center Specific Plan.

This property is located in a Liquefaction Zone.

The submitted Map may not comply with the number of parking spaces required by Section 12.21 A.4(a) based on number of habitable rooms in each unit. If there are insufficient numbers of parking spaces, obtain approval from the Department of City Planning.

The submitted Map may not comply with the number of guest parking spaces required by the Advisory Agency.

The existing or proposed building plans have not been checked for and shall comply with Building and Zoning Code requirements. With the exception of revised health or safety standards, the subdivider shall have a vested right to proceed with the proposed development in substantial compliance with the ordinances, policies, and standards in effect at the time the subdivision application was deemed complete. Plan check will be required before any construction, occupancy or change of use.

If the proposed development does not comply with the current Zoning Code, all zoning violations shall be indicated on the Map.

DEPARTMENT OF TRANSPORTATION

Any questions regarding these conditions should be directed to Shirley Zamora or Brandon Wilson by calling (818) 374-4691.

18. A minimum 20-foot reservoir space is required between any security gate or parking space and the property line, or to the satisfaction of DOT.

19. A two-way driveway width of W=30 feet is required for all driveways, or to the satisfaction of DOT.

20. With respect to each unit map, a parking area and driveway plan should be submitted to the Citywide Planning Coordination Section of the Department of Transportation for approval prior to submittal of building permit plans for plan check by the Department of Building and Safety. Transportation approvals are conducted at 6262 Van Nuys Blvd., Room 320, Van Nuys, CA 91401.

21. The subdivision report fee and condition clearance fee be paid to the Department of Transportation as required per Ordinance No. 183270 and LAMC Section 19.15 prior to recordation of each unit map. Note: The applicant may be required to comply with any other applicable fees per this new ordinance.

FIRE DEPARTMENT

The applicant is further advised that all subsequent contact regarding these conditions must be with the Hydrant and Access Unit. This would include clarification, verification of condition compliance and plans or building permit applications, etc., and shall be accomplished BY APPOINTMENT ONLY, in order to assure that you receive service with a minimum amount of waiting please call (818) 374-4351. You should advise any consultant representing you of this requirement as well.

22. Submit plot plans for Fire Department approval and review prior to recordation of Tract Map Action. In addition, the following items shall be satisfied:

    a. Access for Fire Department apparatus and personnel to and into all structures shall be required.

    b. One or more Knox Boxes will be required to be installed for LAFD access to project location and number to be determined by LAFD Field inspector. (Refer to FPS Req # 75).

    c. 505.1 Address identification. New and existing buildings shall have approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property.

    d. No building or portion of a building shall be constructed more than 150 feet from the edge of a roadway of an improved street, access road, or designated fire lane.

    e. Fire lane width shall not be less than 20 feet. When a fire lane must accommodate the operation of Fire Department aerial ladder apparatus or where fire hydrants are installed, those portions shall not be less than 28 feet in width.

    f. The width of private roadways for general access use and fire lanes shall not be less than 20 feet, and the fire lane must be clear to the sky.

    g. Fire lanes, where required and dead ending streets shall terminate in a cul-de-sac or other approved turning area. No dead ending street or fire lane shall be greater than 700 feet in length or secondary access shall be required.

    h. Submit plot plans indicating access road and turning area for Fire Department approval.

    i. Private streets shall be recorded as Private Streets, AND Fire Lane. All private street plans shall show the words "Private Street and Fire Lane" within the private street

easement.

j. All parking restrictions for fire lanes shall be posted and/or painted prior to any Temporary Certificate of Occupancy being issued.

k. Plans showing areas to be posted and/or painted, "FIRE LANE NO PARKING" shall be submitted and approved by the Fire Department prior to building permit application sign-off.

l. Electric Gates approved by the Fire Department shall be tested by the Fire Department prior to Building and Safety granting a Certificate of Occupancy.

m. Private streets and entry gates will be built to City standards to the satisfaction of the City Engineer and the Fire Department.

n. Construction of public or private roadway in the proposed development shall not exceed 15 percent in grade.

o. Private development shall conform to the Fire Department street standards for fire access as shown on Department of Public Works Standard Plan S-470-0 and shall otherwise conform to the standards for New Streets in the Warner Center 2035 Plan Section 6.2.5.2.1, as applicable.

p. Standard cut-corners will be used on all turns.

q. Adequate off-site public and on-site private fire hydrants may be required. Their number and location to be determined after the Fire Department's review of the plot plan.

r. No framing shall be allowed until the roadway is installed to the satisfaction of the Fire Department.

s. Any required fire hydrants to be installed shall be fully operational and accepted by the Fire Department prior to any building construction.

t. Recently, the Los Angeles Fire Department (LAFD) modified Fire Prevention Bureau (FPS) Requirement 10. Helicopter landing facilities are still required on all High-Rise buildings in the City. However, FPB's Requirement 10 has been revised to provide two new alternatives to a full FAA-approved helicopter landing facilities.

u. Each standpipe in a new high-rise building shall be provided with two remotely located FDC's for each zone in compliance with NFPA 14-2013, Section 7.12.2.

v. The plot plans for each project phase shall be approved by the Fire Department showing fire hydrants and access for each phase of the project prior to the recording of the unit map for that phase. Each phase shall comply independently with code requirements.

DEPARTMENT OF WATER AND POWER

23. That the developer shall complete the following financial and engineering arrangements as **conditions of map clearance:**

a. Street improvement/sewer/storm drain/water plans shall be submitted. **Submit on a unit map basis.**

b. Quitclaim Easement. **Developer must start the quitclaim process for the 64' easement for waterline right-of-way purposes on Warner Center Lane. Submit on a unit map basis.**

24. That the developer shall complete the following financial and engineering arrangements as **conditions of service** (but not conditions of unit map clearance):

a. New services and meters shall be installed. **Installed on a unit map basis. Developer/engineer to provide list of services required for development.**

b. Pressure regulators will be required in accordance with the Los Angeles City Plumbing Code for lot(s) where pressures exceed 80 psi at the building pad elevation. **Required for all unit maps on a unit map basis.**

c. Additional Requirements: **New LADWP easements must be granted and recorded by the applicant over the area of the new Warner Center Lane street alignment prior to quitclaim of the existing easement. Grants and quitclaims of portions of the easement can be on a unit map basis.**

25. Other pertinent information applicable to this subdivision: On January 1, 2018, LADWP implemented a new policy regarding water service for multi-unit residential structures. If a development allows LADWP to install an individual meter in front of each house and the water main serving that development fronts the property and is in a public right-of-way, then this is a conventional installation and LADWP will provide individual meters. However, if the small lot is completely and within private property and the request is for a manifold type installation of consecutive meters in a coffin-type configuration, LADWP can provide up to five meters in that manifold-setting. LADWP can provide a master meter if the number of meters required is greater than five.

BUREAU OF STREET LIGHTING – SPECIFIC CONDITIONS

Street Lighting clearance for this Street Light Maintenance Assessment District condition is conducted at 1149 S. Broadway Suite 200. Street Lighting improvement condition clearance will be conducted at the Bureau of Engineering District office, see condition S-3. (c).

26. IMPROVEMENT CONDITION: No street lighting improvements if no street widening per BOE improvement conditions. Otherwise relocate, upgrade, and/or replace street lights on a unit map basis; eight (8) on Burbank Boulevard and ten (10) on De Soto Avenue.

NOTES:

The quantity of street lights identified may be modified slightly during the plan check process based on illumination calculations and equipment selection.

Conditions set: 1) in compliance with a Specific Plan, 2) by LADOT, or 3) by other legal instrument excluding the Bureau of Engineering conditions, requiring an improvement that will change the geometrics of the public roadway or driveway apron may require additional or the reconstruction of street lighting improvements as part of that condition.

DEPARTMENT OF RECREATION AND PARKS

If you have any questions regarding this recommendation, please contact Park Fee Staff at (213) 202-2682 or rap.parkfees@lacity.org. Park Fees are paid at 221 North Figueroa Street, Suite 400, Los Angeles.

27. Consistent with Mitigation Measure PS-21 in the Final Environmental Impact Report for the Warner Center 2035 Plan, the requirements of LAMC Section 12.33 shall be fulfilled through either the dedication of land and/or the payment of in-lieu fees prior to the recordation of each applicable unit map. Dedication of land and/or payment of in-lieu fees may be on a unit-map basis. Any dedication of land with respect to a unit map may be on-site or off-site. The applicant shall also be entitled to any applicable credits pursuant to LAMC Section 12.33.H. However, per LAMC 12.33 H(2)(e), no credits can be received for open space areas required by a specific plan. The applicant may apply for any credits for open space beyond the required amount, and any other applicable credits, subject to review and approval by the Department of Recreation and Parks. A suitable arrangement shall be made, satisfactory to the Department of Recreation and Parks, guaranteeing said land dedication and/or payment of in-lieu fees.

BUREAU OF SANITATION

28. Wastewater Collection Systems Division of the Bureau of Sanitation has inspected the sewer/storm drain lines serving the subject tract and found no potential problems to their structure or potential maintenance problems, as stated in the memo dated June 8, 2017, with the exception of the following:

    There are easements contained within the aforementioned property. Any proposed development in close proximity to the easements must secure Department of Public Works approval.

    Note: This Approval is for the Tract Map only and represents the office of the Bureau of Sanitation/WCSD. The applicant may be required to obtain other necessary Clearances/Permits from the Bureau of Sanitation and appropriate District office of the Bureau of Engineering.

INFORMATION TECHNOLOGY AGENCY

29. To assure that cable television facilities will be installed in the same manner as other required improvements, please email cabletv.ita@lacity.org that provides an automated response with the instructions on how to obtain the Cable TV clearance. The automated response also provides the email address of three people in case the applicant/owner has any additional questions.

URBAN FORESTRY DIVISION AND CITY PLANNING DEPARTMENT

30. The applicant shall submit a Protected Tree Report with a tree replacement plan prepared by a Tree Expert on a unit map basis, as required by LAMC Ordinance No. 177,404 and Advisory Agency for approval by the Bureau of Street Services, Urban Forestry Division. The Protected Tree Report shall contain the Tree Expert's recommendations for the preservation of as many desirable trees as possible and shall provide species, health, and condition of all trees with tree locations plotted on a site survey. An on-site 4:1 tree replacement for Native Protected Trees may be required for the unavoidable loss of any Native Protected tree on-site.

Note: Removal of Native Protected trees requires the approval of the Board of Public Works. Contact Urban Forestry Division at: (213) 847-3077 for tree removal permit information.

CEQA document must address protected tree removals and replacements.

31. Plant street trees and remove any existing trees within dedicated streets or proposed dedicated streets as required by the Urban Forestry Division of the Bureau of Street Services. Parkway tree removals shall be replanted at a 2:1 ratio All street tree plantings shall be brought up to current standards. When the City has previously been paid for tree plantings, the subdivider or contractor shall notify the Urban Forestry Division at: (213) 847-3077 upon completion of construction to expedite tree planting.

    Note: Removal or planting of any tree in the public right-of-way requires approval of the Board of Public Works. Contact Urban Forestry Division at: (213) 847-3077 for permit information. CEQA document must address parkway tree removals.

DEPARTMENT OF CITY PLANNING - SITE SPECIFIC CONDITIONS

Clearances may be conducted at the Figueroa, Valley, or West Los Angeles Development Services Centers. To clear conditions, an appointment is required, which can be requested at planning.lacity.org.

32. Prior to final map recordation for Phase I, the Property Owner shall bond for all De Soto Avenue, Burbank Boulevard, and Private Street improvements satisfactory to the Valley District Engineering Office, or, if the Property Owner elects to construct the improvements, submit to the Bureau of Engineering an application for A-permit(s) and/or B-permit(s) for such improvements. On a unit map basis, public right-of-way improvements along De Soto Avenue and Burbank Boulevard, as well as Private Street improvements, shall be completed and constructed prior to issuance of a certificate of occupancy for any new building within the subject unit map.

33. Prior to final map recordation for each phase, any designated remainder or any omitted parcel may subsequently be sold without any further requirement of the filing of a parcel map or final map per Government Code Section 66424.6(d), but a conditional certificate of compliance is required. No building permits shall be issued for any designated remainder or any omitted parcel unless a conditional certificate of compliance is recorded, with the exception of demolition permits, tenant improvements, and changes of use.

34. Prior to the recordation of the final map, the subdivider shall prepare and execute a Covenant and Agreement (Planning Department General Form CP-6770) in a manner satisfactory to the Planning Department, binding the subdivider and all successors to the following:

    a. Limit the proposed development to a maximum of 8 lots.

    b. That the subdivider shall comply with the **Warner Center 2035 Specific Plan** prior to the issuance of a building or grading permit.

    e. That a solar access report shall be submitted to the satisfaction of the Advisory Agency prior to obtaining a grading permit.

f. That the subdivider consider the use of natural gas and/or solar energy and consult with the Department of Water and Power and Southern California Gas Company regarding feasible energy conservation measures.

g. INDEMNIFICATION AND REIMBURSEMENT OF LITIGATION COSTS.

Applicant shall do all of the following:

(i) Defend, indemnify and hold harmless the City from any and all actions against the City relating to or arising out of, in whole or in part, the City's processing and approval of this entitlement, including but not limited to, an action to attack, challenge, set aside, void or otherwise modify or annul the approval of the entitlement, the environmental review of the entitlement, or the approval of subsequent permit decisions, or to claim personal property damage, including from inverse condemnation or any other constitutional claim.

(ii) Reimburse the City for any and all costs incurred in defense of an action related to or arising out of, in whole or in part, the City's processing and approval of the entitlement, including but not limited to payment of all court costs and attorney's fees, costs of any judgments or awards against the City (including an award of attorney's fees), damages, and/or settlement costs.

(iii) Submit an initial deposit for the City's litigation costs to the City within 10 days' notice of the City tendering defense to the Applicant and requesting a deposit. The initial deposit shall be in an amount set by the City Attorney's Office, in its sole discretion, based on the nature and scope of action, but in no event shall the initial deposit be less than $50,000. The City's failure to notice or collect the deposit does not relieve the Applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

(iv) Submit supplemental deposits upon notice by the City. Supplemental deposits may be required in an increased amount from the initial deposit if found necessary by the City to protect the City's interests. The City's failure to notice or collect the deposit does not relieve the Applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

(v) If the City determines it necessary to protect the City's interest, execute an indemnity and reimbursement agreement with the City under terms consistent with the requirements of this condition.

The City shall notify the applicant within a reasonable period of time of its receipt of any action and the City shall cooperate in the defense. If the City fails to notify the applicant of any claim, action, or proceeding in a reasonable time, of if the City fails to reasonably cooperate in the defense, the applicant shall not thereafter be responsible to defend, indemnify or hold harmless the City.

The City shall have the sole right to choose its counsel, including the City Attorney's office or outside counsel. At its sole discretion, the City may participate at its own expense in the defense of any action, but such participation shall not relieve the applicant of any obligation imposed by this condition. In the event the Applicant fails to comply with this condition, in whole or in part, the City may withdraw its defense of the action, void its approval of the entitlement, or take any other action. The City retains the right to make all decisions with respect to its

representations in any legal proceeding, including its inherent right to abandon or settle litigation.

For purposes of this condition, the following definitions apply:

"City" shall be defined to include the City, its agents, officers, boards, commissions, committees, employees, and volunteers.

"Action" shall be defined to include suits, proceedings (including those held under alternative dispute resolution procedures), claims, or lawsuits. Action includes actions, as defined herein, alleging failure to comply with <u>any</u> federal, state or local law.

Nothing in the definitions included in this paragraph are intended to limit the rights of the City or the obligations of the Applicant otherwise created by this condition.

35. <u>That prior to the issuance of a building permit or the recordation of the final map or the first unit map</u>, a copy of the Case No. DIR-2017-1708-SPP shall be submitted to the satisfaction of the Advisory Agency. In the event that Case No. DIR-2017-1708-SPP is not approved, the subdivider shall submit a tract modification. Case No. DIR-2017-1708-SPP concerns Project Permit Compliance with the Warner Center 2035 Plan and conditions site development, permitted land uses, intensity, phasing, ground floor limitations, building height, street standards, Activity Nodes, Active Street Frontages, setbacks, Publicly Accessible Open Space, Park Fees and Land Dedication, parking requirements, compliance with Design Guidelines, street trees, on-site trees, compliance with sustainability standards, street lighting, site access and internal circulation, Mobility Fee, Transportation Demand Management options, and the Warner Center Cultural Amenities Development Fee, among other regulations.

36. Per Warner Center 2035 Plan Section 5.3.3.2.2, any changes to any phase of development which are not substantially compliant with approved plans, including changes to elevations, site plans, orientations, and other design features to a Multiple-Phase Project, shall require a modification to a Project Permit Compliance pursuant to the requirements of LAMC Section 11.5.7.D. Any modification request shall include submittal of all materials necessary to support the modification request including, but not limited to, supplemental application materials, phasing documentation and DOT review specified in subsections 5.3.3.1.1 through 5.3.3.1.3.

37. Pursuant to Warner Center 2035 Plan Section 6.1.2.2.10 regarding the anticipated extension of Variel Avenue from Califa Street to the north to Burbank Boulevard to the south, the Project shall design the driveway identified on plans as Adler Drive, along the west side of the Project site, to be directly accessible to Burbank Boulevard and to be built to a width of 28 feet, as proposed on Plan Sheet MP-30, in anticipation of the adjacent properties to the north and west being redeveloped, and allowing for an extension of Variel Avenue in a southerly direction to Burbank Boulevard. There shall be a 10-foot parkway located to the west of Adler Drive, extending to the property line, as proposed by the applicant and depicted on Plan Sheet MP-30. The northern end of Adler Drive may be temporarily improved as private, park-like open space, as proposed by the applicant, until such time that the property to the north redevelops.

38. Per Warner Center 2035 Plan Section 6.2.2 and Appendix F, Section 7, the Project shall provide a minimum of 15 percent of the net site area as Publicly Accessible Open Space (PAOS), based on a lot size of 1,042,301 square feet. Since the Project includes the

creation of a New Street, 50% of the Project's PAOS requirement shall be credited, in accordance with Section 6.2.2.3.2. The Project thus shall provide a minimum of 78,173 square feet of PAOS, which is further conditioned in Case No. DIR-2017-1708-SPP.

DEPARTMENT OF CITY PLANNING-ENVIRONMENTAL MITIGATION MEASURES

39. That prior to recordation of the final map, the subdivider shall prepare and execute a Covenant and Agreement (Planning Department General Form CP-6770 and Exhibit CP-6770. M) in a manner satisfactory to the Planning Department requiring the subdivider to identify (a) mitigation monitor(s) who shall provide periodic status reports on the implementation of mitigation items required by the following Mitigation Condition and Project Design Feature Nos. of the Tract's approval satisfactory to the Advisory Agency. The mitigation monitor(s) shall be identified as to their areas of responsibility, and phase of intervention (pre-construction, construction, post construction/maintenance) to ensure continued implementation of the above mentioned mitigation items.

40. Prior to the recordation of the final map, the subdivider will prepare and execute a Covenant and Agreement (Planning Department General Form CP-6770) in a manner satisfactory to the Planning Department, binding the subdivider and all successors to the following:

AES-1: All open areas not used for buildings, driveways, parking areas, recreational facilities or walks shall be attractively landscaped and maintained in accordance with a landscape plan, including an automatic irrigation plan, prepared by a licensed landscape architect to the satisfaction of the decision maker.

AES-2: Every building, structure, or portion thereof, shall be maintained in a safe and sanitary condition and good repair, and free from graffiti, debris, rubbish, garbage, trash, overgrown vegetation or other similar material, pursuant to LAMC Section 91.8104.

AES-3: The exterior of all buildings and fences shall be free from graffiti when such graffiti is visible from a public street or alley, pursuant to LAMC Section 91.8104.15.

AES-4: Multiple temporary signs in the store windows and along the building walls are not permitted.

AES-7: All signs shall meet the following criteria:

a) The building and ground area around signs shall be properly maintained at all times. All unused mounting structures, hardware and wall perforations from any previous sign shall be removed and building surfaces shall be restored to their original condition.

b) All signage copy shall be properly maintained and kept free from damaged sign material and other unsightly conditions, including graffiti.

c) Any sign structure shall be at all times kept in good repair and maintained in a safe and sound condition and in conformance with all applicable codes.

d) Razor wire, barbed wire, concertina wire or other barriers preventing unauthorized access to any sign, if any, shall be hidden from public view.

e) The signage copy must be repaired or replaced immediately upon tearing, ripping, or peeling or when marred or damaged by graffiti.

f) No access platform, ladder, or other service appurtenance, visible from the sidewalk, street or public right-of-way, shall be installed or attached to any sign structure.

g) Existing signs that are no longer serving the current tenants, including support structures, shall be removed and the building facades originally covered by the signs shall be repaired/resurfaced with materials and colors that are compatible with the facades.

AES-8: The material, construction, mounting, and adhesive methods of all proposed signage shall be subject to the approval of the Fire Department and the Department of Building and Safety.

AES-9: All lighting related to construction activities shall be shielded or directed to restrict any direct illumination onto property located outside of the construction area boundaries that is improved with light-sensitive uses.

AES-10: Exterior lighting shall incorporate fixtures and light sources that focus light onto project sites to minimize light trespass.

AES-11: Lighting of individual phases of the Project shall comply with LAMC Section 93.0117. As such, lighting shall not cause more than two footcandles of lighting intensity or direct glare from the light source at any residential property.

AES-12: All buildings, parking structures, and signage shall be prohibited from the using highly reflective building materials such as mirrored glass in exterior façades. Examples of commonly used non-reflective building materials include cement, plaster, concrete, metal, and non-mirrored glass, and would likely include additional materials as technology advances in the future.

AES-13: Buildings shall not include large areas of reflective surfaces that could reflect light from signage into surrounding areas. No high brightness special effects lighting with brightness levels that shall exceed the lighting levels of permitted signage would be allowed. Buildings, signage or thematic elements shall not incorporate reflective building materials or provide a source of auto headlight-related glare in proximity to glare sensitive uses.

AES-14: Outdoor lighting shall be designed and installed with shielding, so that the light source cannot be seen from adjacent residential uses.

AES-15: The exteriors of buildings shall be constructed of materials such as high performance tinted non-reflective glass and/or pre-cast concrete or fabricated wall surfaces.

AES-16: Prior to issuance of a building permit for signage displays for each phase of the Project, a lighting design expert shall develop plans and

specifications for the proposed lighting displays, to identify maximum luminance levels for the displays. The City and lighting expert shall review and monitor the installation and testing of the displays, in order to ensure compliance with all City lighting regulations and these mitigation measures.

AES-17: The Applicant (and successor) and/or its lighting design expert shall implement the following protocol to determine compliance with all City lighting regulations and these mitigation measures no later than 6 months after certificate of occupancy:

a) A representative testing site shall be established on or next to those light sensitive receptors that have the greatest exposure to signage lighting on each facades of a development.

b) A light meter mounted to a tripod at eye level, facing project buildings, should be calibrated and measurements should be taken to determine ambient light levels with the sign on.

c) An opaque object (a board) should be used to block out the view of the sign from the light meter, at a distance of at least 4 feet away from the tripod and blocking the light meter's view of the building. A reading should be taken to determine the ambient light levels with the sign off.

d) The difference between the two would be the amount of light the sign casts onto the sensitive receptor.

e) An alternate acceptable method to measure light levels would be to use the same tripod and same light meter, but to turn on and off the signage. This method takes more coordination, but is more accurate.

AES-27 The Applicant (or successors as appropriate) shall submit a conceptual signage and lighting design plan to the Department of City Planning to establish lighting standards and guidelines.

AQ-1: The Project shall use soil binders on soils exposed for extended periods of time (more than two weeks) to reduce fugitive dust. In addition, the Project shall include the following measures as applicable and feasible for each phase of the Project:

1) Provide temporary traffic controls such as a flag person, during all phases of construction to maintain smooth traffic flow.

2) Provide dedicated turn lanes for movement of construction trucks and equipment, on-and off-site.

3) Reroute construction trucks away from congested streets or sensitive receptor areas.

4) Appoint a construction relations officer to act as a community liaison concerning on-site construction activity including resolution of issues related to PM_{10} generation.

5) Improve traffic flow by signal synchronization, and ensure that all vehicles and equipment will be properly tuned and maintained according to manufacturers' specifications.

6) Use coatings and solvents with a VOC content lower than that required under AQMD Rule 1113.

7) Construct or build with materials that do not require painting.

8) Require the use of pre-painted construction materials.

9) Require the use of 2010 and newer diesel haul trucks (e.g., material delivery trucks and soil import/export).

10) During project construction, all internal combustion engines/construction equipment operating on the project site shall meet EPA-Certified Tier 2 emissions standards, or higher, according to the following:

- All off road diesel-powered construction equipment greater than 50 hp shall meet the Tier 4 emission standards, where available. In addition, all construction equipment shall be outfitted with BACT devices certified by CARB. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions control strategy for a similarly sized engine as defined by CARB regulations.

- A copy of each unit's certified tier specification, BACT documentation, and CARB or SCAQMD operating permit shall be provided at the time of mobilization of each applicable unit of equipment.

- Encourage construction contractors to apply for AQMD "SOON" funds. Incentives could be provided for those construction contractors who apply for AQMD "SOON" funds. The "SOON" program provides funds to accelerate cleanup of off-road diesel vehicles, such as heavy-duty construction equipment. More information on this program can be found at the following website: http://www.aqmd.gov/home/programs/business/business-detail?title=off-road-diesel-engines.

11) Other measures as applicable that may be recommended by SCAQMD on their web site or elsewhere: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies.

AQ-2: The Applicant shall ensure that ground cover be reestablished on construction sites through seeding and watering on completion of construction (or if sites are to remain undeveloped for more than a year) for each phase of the Project.

AQ-3: The Applicant shall ensure that trucks leaving construction sites be washed to reduce track-out dirt and dust.

AQ-4: The Applicant shall provide rideshare and transit incentives to construction personnel.

AQ-5: The Applicant shall configure construction parking to minimize interference with traffic lanes.

AQ-6: The Applicant shall minimize the obstruction of through-traffic in the vicinity of each construction site.

AQ-7: The Applicant and City Departments shall require the use of flag people during construction to guide traffic properly.

AQ-8: The Applicant shall ensure that construction activities that could affect roadways be scheduled for off-peak periods.

AQ-9: Project construction personnel (as well as City construction personnel associated with construction of roadway and other infrastructure) shall ensure that that construction vehicles avoid, to the extent feasible, travel on streets immediately adjacent to Canoga Park High School, Woodland Hills Academy Middle School and Hart Elementary School throughout the construction phase for each phase of the Project to reduce potentially significant project specific and cumulative construction-related air quality impacts. The Applicant shall ensure that haul routes are designed to comply with this measure.

AQ-10: Each phase of the Project located within 0.5 mile of Woodland Hills Academy Middle School shall be subject to a construction fee that provides for funding for the replacement of air filters at the beginning and at the conclusion of construction in any air conditioning units at the affected school site.

AQ-11: For each phase of the Project located within 0.5 mile of Woodland Hills Academy Middle School, the Applicant shall provide advance notification of the Project's anticipated general construction schedule and a specific schedule for site grading and preparation activities, and shall allow the affected school 15 days to review and comment on the schedule. In addition, any such project phase shall be required to provide personnel on a daily basis to wash the playground, lunch areas, and seating areas at the affected school site during active grading and earth moving phases of the construction, as coordinated with the appropriate school administrative staff.

AQ-12: For each phase of the Project located within 0.5 mile of Woodland Hills Academy Middle School, the Applicant shall, as a condition of the Project Permit Compliance Review, execute a covenant to implement feasible mitigation measures, including all measures identified above.

AQ-13: For each phase of the Project located within 0.5 mile of Woodland Hills Academy Middle School, the Applicant shall contribute a fair share to the Warner Center Air Quality Trust Fund by paying the Construction Air Quality Impact Assessment (CAQIA) fee prior to the issuance of any building, demolition, grading or foundation permit. The CAQIA Fee shall be $0.10 per square foot of proposed surface area disturbed or greater as may be identified in a subsequent fair share study.

AQ-22: All landscaping shall be required to be drought tolerant to reduce water consumption and provide passive solar benefits.

BIO-1: The development of the Project shall avoid disturbance of any nests protected by the Migratory Bird Treaty Act: If construction activities (i.e., removal of trees or shrubs) are scheduled to occur during the non-breeding season (September 1 through January 31), no mitigation is required. If construction activities are scheduled to occur during the breeding season (February 1 through August 31), the project proponent will implement the following measures to avoid potential adverse effects on birds covered by the Migratory Bird Treaty Act:

- No more than two weeks prior to construction, a qualified wildlife biologist will conduct preconstruction surveys of all potential nesting habitat within 500 feet of construction activities where access is available.
- If active nests are found during preconstruction surveys, the project proponent will create a no disturbance buffer (acceptable in size to the CDFG) around active raptor nests and nests of other special-status birds during the breeding season, or until it is determined that all young have fledged. Typical buffers include 500 feet for raptors and 250 feet for other nesting birds. The size of these buffer zones and types of construction activities restricted in these areas may be further modified during coordination and in consultation with the CDFG and will be based on existing noise and human disturbance levels at the project site. Nests initiated during construction are presumed to be unaffected, and no buffer would be necessary. However, the "take" (mortality, severe disturbance to, etc.) of any individual birds will be prohibited.
- If preconstruction surveys indicate that nests are inactive or potential habitat is unoccupied during the construction period, no further mitigation is required. Trees and shrubs within the construction footprint that have been determined to be unoccupied by birds covered by the Migratory Bird Treaty Act or that are located outside the no-disturbance buffer for active nests may be removed.

BIO-2: Replacement for the loss of any protected trees shall be required in accordance with the Los Angeles Protected Tree Ordinance: Replace all on-site trees to ensure continuation of the urban forest. Replace all non-native trees greater than 10 centimeters (4 inches) in diameter at breast height (4.5 feet above surrounding grade) with native or non-native (non-invasive) trees of appropriate local climate tolerance at a 2:1 ratio. For native species, source materials should be from seeds or cuttings gathered within coastal southern California to ensure local provenance.

CUL-3: Archaeological monitoring by a qualified archaeologist, of grading of subsurface materials not previously disturbed, shall be undertaken. If buried cultural resources are discovered during ground-disturbing activities, work will stop in that area and within 100 feet of the find until a qualified archaeologist can assess the significance of the find and, if necessary, develop appropriate treatment measures. If during cultural resources monitoring the qualified archaeologist determines that the sediments being excavated are previously disturbed or unlikely to contain significant cultural materials, the qualified archaeologist can specify that

monitoring be reduced or eliminated will verify that work is halted until appropriate site-specific treatment measures are implemented.

CUL-4: If cultural resources are discovered during construction activities, the Project's construction contractor will verify that work is halted until appropriate site-specific treatment measures are Implemented.

CUL-5: If human remains of Native American origin are discovered during ground-disturbing activities on the Project Site, the Project will comply with State laws relating to the disposition of Native American burials that fall within the jurisdiction of the California Native American Heritage Commission (Public Resources Code Section 5097). According to California Health and Safety Code, six or more human burials at one location constitute a cemetery (Section 8100), and disturbance of Native American cemeteries is a felony (Section 7052). Section 7050.5 requires that excavation be stopped in the vicinity of discovered human remains until the coroner can determine whether the remains are those of a Native American. If the remains are determined to be Native American, the coroner must contact the California Native American Heritage Commission to determine the most likely descendent(s). The most likely descendent shall determine the most appropriate means of treating the human remains and any associated grave artifacts, and shall oversee disposition of the human remains and associated artifacts by the project archaeologists.

CUL-6: A qualified paleontological monitor shall monitor excavation activities below previously disturbed materials for the Project on the Project Site. The qualified paleontological monitor shall retain the option to reduce monitoring with respect to any project phase if, in his/her professional opinion, potentially fossiliferous units, are not found to be present or, if present, are determined by qualified paleontological personnel to have low potential to contain fossil resources.

GEO-1: The Applicant is required to prepare detailed geotechnical investigations that address site-specific geologic constraints of the site including soil conditions (including liquefaction and expansive soils) and stability. The study shall include recommendations related to erosion control and other site-specific conditions including seismicity for construction of individual projects.

GEO-2: The Project shall be constructed in compliance with the Los Angeles Municipal Code and California Building Code and other applicable regulations.

GEO-3: Unless otherwise specified by the City, for each phase of the Project, the Applicant shall demonstrate compliance with specific recommendations for grading, foundation design, retaining wall design, temporary excavations, slabs on grade, site drainage, asphalt concrete pavement and interlocking pavers, design review, construction monitoring and geotechnical testing as identified in a site-specific geotechnical study, to the satisfaction of the Department of Building and Safety, as conditions to issuance of any grading and building permits with respect to such phase.

GEO-4: For each phase of the Project, the Applicant shall comply with the following Department of Building and Safety requirements (if not already covered by

mitigation measure GEO-3), prior to issuance of a grading permit for such phase of the Project:

- Prior to the issuance of a grading permit by the Department of Building and Safety for each phase of the Project, the consulting geologist and soils engineer for the Project shall review and approve project grading plans with respect to such phase. This approval shall be conferred by signature on the plans which clearly indicate the geologist and/or soils engineer have reviewed the plans prepared by the design engineer and that the plans include the recommendations contained in the report.
- Prior to the commencement of grading activities for each phase of the Project, a qualified geotechnical engineer and engineering geologist shall be employed with respect to such phase for the purpose of observing earthwork procedures and testing fills for conformance to the recommendations of the City Engineer, approved grading plans, applicable grading codes, and the geotechnical report approved to the satisfaction of the Department of Building and Safety.
- During construction of each phase of the Project, all grading shall be carefully observed, mapped and tested by the project engineer. All grading shall be performed under the supervision of a licensed engineering geologist and/or soils engineer in accordance with applicable provisions of the Los Angeles Municipal Code and California Building Code and to the satisfaction of the City Engineer and the Department of Building and Safety.
- Any recommendations prepared by the consulting geologist and/or soils engineer for each phase of the Project for correction of geologic hazards, if any, encountered during grading shall be submitted to the Department of Building and Safety for approval prior to issuance of a Certificate of Occupancy for the applicable phase of the Project.
- Grading and excavation activities shall be undertaken in compliance with all relevant requirements of the California Division of Industrial safety, the Occupational Safety and Health Act of 1970 and the Construction Safety Act.

GEO-5: The Project shall conform to applicable criteria set forth in the Recommended Lateral Force Requirements and Commentary by the Structural Engineers Association of California.

GEO-6: Each phase of the Project shall be designed to conform to the City of Los Angeles Seismic Safety Plan and additional seismic safety requirements not encompassed by compliance with the Los Angeles Municipal Code and California Building Code and Grading Ordinance as may be identified by the Department of Building and Safety prior to Plan Check approval on each building.

GEO-7: The structural design of each project building shall comply with the seismic standards of the most recent applicable California Building Code according to the seismic zone and construction type.

GEO-8: For each phase of the Project, the Applicant shall ensure that during inclement periods of the year, when rain is threatening (between November 1 and April 15 per the Los Angeles Building Code, Sec. 7002.), an erosion

control plan that identifies BMPs shall be implemented on the Project Site to the satisfaction of the Department of Building and Safety to minimize potential erosion during construction. The erosion control plan shall be a condition to issuance of any grading permit for the applicable phase of the Project.

GEO-9: The Applicant shall ensure that appropriate erosion control and drainage devices are incorporated to the satisfaction of the Department of Building and Safety. Such measures include interceptor terraces, berms, vee-channels, and inlet and outlet structures.

GEO-10: The Applicant shall ensure that if temporary excavation slopes are to be maintained during the rainy season, all drainage shall be directed away from the top of the slope. No water shall be allowed to flow uncontrolled over the face of any temporary or permanent slope.

GEO-11: The Applicant shall ensure that provisions are made for adequate surface drainage away from areas of excavation, as well as protection of excavated areas from flooding, on the Project Site. The grading contractor shall control surface water and the transportation of silt and sediment.

GEO-12: For each phase of the Project, the Applicant shall comply with National Pollutant Discharge Elimination System (NPDES) permit requirements, including preparation of Storm Water Pollution Prevention Plans (SWPPP). As part of the SWPPP for each phase of the Project, Best Management Practices (BMPs) would be identified for construction to reduce soil erosion and pollutant levels to the maximum extent possible.

HAZ-3: The Applicant and/or contractor shall ensure that no hazardous materials are transported along Topanga Canyon Boulevard or Burbank Boulevard or within one-quarter mile of a school.

HAZ-4: The Applicant and/or contractor shall coordinate in advance of construction with the City of Los Angeles Department of Transportation and Fire Department to ensure that road closures (temporary or permanent) are identified and that alternate access and evacuation routes are determined in the event of an emergency and/or natural disaster.

HAZ-5: Each construction site and/or permanent facility storing hazardous materials shall comply with applicable regulations regarding storage, transport and disposal of hazardous materials and wastes.

HYDRO-1: The Applicant shall comply with the Low Impact Development (LID) Ordinance. Construction contractors for the Project shall be required to control erosion and runoff as necessary through the use of site appropriate grading practices. Specifically, the construction contractor shall plan for and implement Best Management Practice (BMP) during each phase of construction to the satisfaction of the Department of Public Works, Bureau of Engineering, Stormwater Management Division City of Los Angeles, and/or other designated responsible agencies/departments. (LID measures also require review and approval of the Watermaster.)

HYDRO-2: The Applicant shall ensure that structural design of the Project will be modified when possible to avoid the need for a permanent dewatering

system. When a permanent dewatering system is necessary, one or more of the following measures as per the Department of Building and Safety shall be followed:

- Pumping water to a beneficial use on site (landscaping, decorative fountains or lakes, toilet flushing, cooling towers); or
- Returning water to the groundwater basin by an injection well.

HYDRO-3: The Applicant shall provide sufficient available area so that runoff can be collected in roadside vegetated swales, as appropriate and feasible, and directed to existing curb and gutter or storm drains. In other areas, runoff shall be collected in gutters and directed to the storm drain systems. Swale design shall be coordinated with on-site hazardous materials issues as necessary.

HYDRO-4: The Applicant shall comply with applicable NPDES permit requirements, including preparation and implementation of a Standard Urban Stormwater Mitigation Plan (SUSMP) for each phase of the Project in accordance with the Los Angeles Municipal Storm Water permit. The SUSMP shall identify post development peak runoff, conserve natural areas, minimize stormwater pollutants, protect slopes and channels, and post construction Best Management Practices (BMP) and other items as required by the permit. (SUSMP measures require review and approval of the Watermaster.)

HYDRO-5: The Applicant shall ensure that runoff from parking lots to be treated, as required by SUSMP regulations, prior to discharging into existing storm drain systems.

HYDRO-6: The Applicant shall ensure that all wastes from construction on the Project Site shall be disposed of properly. Appropriately labeled recycling bins shall be used to recycle construction materials including: solvents, water-based paints, vehicle fluids, broken asphalt and concrete; wood, and vegetation. Non-recyclable materials/wastes shall be taken to an appropriate landfill. Toxic wastes shall be discarded at a licensed regulated disposal site.

HYDRO-7: The Applicant shall ensure leaks, drips, and spills be cleaned up immediately to prevent contaminated soil on paved surfaces that can be washed away into the storm drains.

HYDRO-8: The Applicant shall prevent material spills from being hosed down at the pavement. Dry cleanup methods shall be required wherever possible.

HYDRO-9: The Applicant shall ensure that dumpsters be covered and maintained. Uncovered dumpsters shall be required to be placed under a roof or covered with tarps or plastic sheeting.

HYDRO-10: The Applicant shall ensure that where truck traffic is frequent, gravel approaches and dirt tracking devices shall be used to reduce soil compaction and limit the tracking of sediment into streets.

HYDRO-11: The Applicant shall ensure that all vehicle/equipment maintenance, repair, and washing shall be conducted away from storm drains. All major repairs shall be required to be conducted at an appropriate location. Drip pans or drop cloths shall be required to catch drips and spills.

HYDRO-12: Short-term water quality impacts may result from the construction of the proposed Project. Each phase of project construction shall comply with the Construction General Activity Stormwater Permit (General Permit) and the City's Development Construction Program pursuant to the NPDES Permit (Permit No. CA00401). Implementation of the General Permit and NPDES Permit programs will mitigate potential impacts to a level of insignificance.

HYDRO-13: Ordinance No. 172,176 and Ordinance No. 173,494 specify Stormwater and Urban Runoff Pollution Control, which requires the application of Best Management Practices (BMPs). Chapter IX, Division 70 of the Los Angeles Municipal Code addresses grading, excavations, and fills. The Applicant must meet the requirements of the Standard Urban Stormwater Mitigation Plan (SUSMP) approved by Los Angeles Regional Water Quality Control Board for each phase of the Project, including the following (a copy of the SUSMP can be downloaded at: (http://www.swrcb.ca.gov/rwqcb4/).

- The Applicant shall implement stormwater BMPs to treat and, as appropriate and feasible, infiltrate the runoff from a storm event producing 3/4 inch of rainfall in a 24-hour period. The design of structural BMPs shall be in accordance with the Development Best Management Practices Handbook Part B Planning Activities. A signed certificate from a California licensed civil engineer or licensed architect that the proposed BMPs meet this numerical threshold standard is required.
- Post development peak stormwater runoff discharge rates shall not exceed the estimated predevelopment rate for developments where the increase peak stormwater discharge rate will result in increased potential for downstream erosion.
- Clearing and grading of native vegetation at the project site shall be limited to the minimum needed to build lots, allow access, and provide fire protection.
- Trees and other vegetation at each site shall be maximized by planning additional vegetation, clustering tree areas, and promoting the use of native and/or drought tolerant plants.
- Natural vegetation shall be promoted by using parking lot islands and other landscaped areas.
- Any identified riparian areas shall be preserved.
- Appropriate erosion control and drainage devices, such as interceptor terraces, berms, vee-channels, and inlet and outlet structures, as specified by Section 91.7013 of the Building Code will be incorporated.
- Outlets of culverts, conduits or channels from erosion by discharge velocities shall be protected by installing a rock outlet protection. Rock outlet protection is physical devise composed of rock, grouted riprap, or concrete rubble placed at the outlet of a pipe. Sediment traps shall

be installed below the pipe-outlet. Inspect, repair, and maintain the outlet protection after each significant rain.

- Any connection to the sanitary sewer will have authorization from the Bureau of Sanitation.
- Impervious surface area will be reduced by using permeable pavement materials where appropriate. These include pervious concrete/asphalt; unit pavers, i.e. turf block; and granular materials, i.e. crushed aggregates, cobbles.
- Roof runoff systems will be installed where site is suitable for installation.
- Messages that prohibit the dumping of improper materials into the storm drain system adjacent to storm drain inlets shall be painted.
- All storm drain inlets and catch basins within the project area shall be stenciled with prohibitive language (such as NO DUMPING - DRAINS TO OCEAN) and/or graphical icons to discourage illegal dumping.
- Signs and prohibitive language and/or graphical icons, which prohibit illegal dumping, must be posted at public access points along channels and creeks within the project area.
- Legibility of stencils and signs must be maintained.
- Materials with the potential to contaminate stormwater must be: (1) placed in an enclosure such as, but not limited to, a cabinet, shed, or similar stormwater conveyance system; or (2) protected by secondary containment structures such as berms, dikes, or curbs.
- The storage area will be paved and sufficiently impervious to contain leaks and spills.
- The storage area shall have a roof or awning to minimize collection of stormwater within the secondary containment area.
- An efficient irrigation system shall be designed to minimize runoff including: drip irrigation for shrubs to limit excessive spray; shutoff devices to prevent irrigation after significant precipitation; and flow reducers.
- Cleaning of oily vents and equipment will be performed within designated covered area, sloped for wash water collection, and with a pretreatment facility for wash water before discharging to properly connected sanitary sewer with a CPI type oil/water separator. The separator unit must be: designed to handle the quantity of flows; removed for cleaning on a regular basis to remove any solids; and the oil absorbent pads must be replaced regularly according to manufacturer's specifications.
- Trash dumpsters will be stored both under cover and with drains routed to the sanitary sewer or use non-leaking and water tight dumpsters with lids. Containers will be washed in an area with properly connected sanitary sewer.
- Wastes, including paper, glass, aluminum, oil and grease will be reduced and recycled.

- Liquid storage tanks (drums and dumpsters) will be stored in designated paved areas with impervious surfaces in order to contain leaks and spills. A secondary containment system such as berms, curbs, or dikes shall be installed. Drip pans or absorbent materials whenever grease containers are emptied will be used.
- The owner(s) of the property will prepare and execute a covenant and agreement satisfactory to the Planning Department binding the owners to post construction maintenance on the structural BMPs in accordance with the Standard Urban Stormwater Mitigation Plan and or per manufacturer's instructions.

NOI-3: The Applicant shall restrict construction hours to hours between 7:00 a.m. and 9:00 p.m., Monday through Friday, and between 8:00 a.m. and 6:00 p.m. on Saturday. No noise-generating construction activities shall be allowed on Sundays or national holidays.

NOI-4: The Applicant shall ensure that noise-generating construction equipment be equipped with the most effective state-of-the-art noise control devices, i.e., mufflers, lagging, or motor enclosures. All equipment shall be properly maintained to assure that no additional noise, due to worn or improperly maintained parts, would be generated.

NOI-5: The Applicant shall ensure that temporary noise barriers to be used and relocated, as needed, to block line-of-sight (sound) between the construction equipment and any noise sensitive receptors within 500 feet of a construction site.

NOI-6: The Applicant shall ensure that truck deliveries and haul routes, to the extent feasible, shall be directed away from the three LAUSD schools in the vicinity of Warner Center and not access construction sites from De Soto Avenue, along the lot line of Woodland Hills Academy Middle School or from Topanga Canyon Boulevard and Vanowen Street along the lot line of Canoga Park High School, or use Variel north of Warner Center to access project sites in Warner Center.

NOI-7: The Applicant shall notify schools in advance of construction activities. The construction manager's (or representative's) telephone number shall be provided with the notification so that each school may communicate any concerns.

PS-1: Adequate fire protection service levels shall be maintained through the addition of personnel and facilities as necessary to meet anticipated demand, and where appropriate, through project-specific on-site features that reduce the demand for such personnel and facilities.

PS-2: The Applicant shall submit for review and approval all project plans on a phase-by-phase basis to the LAFD to ensure that the applicable new building complies with current fire codes and LAFD requirements.

PS-3: The project building plans shall include the submittal of a plot plan on a phase-by-phase basis for approval by the LAFD prior to the recordation of the final map or the issuance of the first building permit for the applicable phase of the Project.

PS-4: The Applicant shall consult with the LAFD and incorporate fire prevention and suppression features appropriate to the design of each phase of the Project.

PS-5: Plans and specifications shall be submitted to the LAFD on a phase-by-phase basis and requirements for necessary permits satisfied prior to commencement of any portion of the applicable phase of the Project.

PS-6: Fire hydrants shall be installed on a phase-by-phase basis as appropriate that shall be fully operational and accepted by the LAFD prior to any building construction above grade.

PS-7: Plot plans shall indicate access driveways and roads and turning areas be reviewed and approved by the LAFD, prior to the issuance of a building permit for the applicable phase of the Project.

PS-8: During each construction phase of the Project, emergency access shall remain clear and unobstructed.

PS-9: The Project shall comply with all applicable State and local codes and ordinances, and the guidelines found in the Fire Protection and Fire Prevention Plan, as well as the Safety Plan, both of which are elements of the General Plan of the City of Los Angeles.

PS-10: All access roads, including fire lanes, shall be maintained in an unobstructed manner, removal of obstructions shall be at the owner's expense. The entrance to all required fire lanes or required private driveways shall be posted with a sign no less than three square feet in area in accordance with Section 57.09.05 of the Los Angeles Municipal Code.

PS-11: A Fire Flow analysis shall be prepared for each phase of the Project. The purpose of the analysis will be to determine whether the proposed public water system can deliver required fire flows to the public fire hydrants located in the area. Should fire flow be found to be inadequate with respect a project phase, the Applicant shall be required to comply with the requirements of LADWP (including construction of additional water supply lines within the project area, payment of a fee to cover fair share costs and/or other measures as deemed necessary by LADWP and/or LAFD) to ensure adequate fire flow.

PS-12: During construction, the Applicant shall implement security measures including security fencing, lighting, locked entry, and security patrol on the site.

PS-13: During the construction phase of the Project, the Applicant shall provide adequate through access and emergency access to adjacent uses as necessary.

PS-14: The Applicant shall consult with the LAPD and comply with recommended security features for the construction site, including security fencing, locked entrances, lighting, and the use of a seven-day, 24-hour security patrol.

PS-16: The Applicant shall consult with the LAPD Crime Prevention Unit regarding crime prevention features appropriate for the design of the Project and

subsequently, shall submit plot plans on a phase-by-phase basis to the LAPD Crime Prevention Unit for review and comment. The plans shall incorporate design guidelines relative to security and semi-public and private spaces which may include but not be limited to access control to buildings, secured parking facilities, wall/fences with key systems, well-illuminated public and semi-public and private spaces, which may include access control to buildings, secured parking facilities, walls/fences with key systems, well-illuminated public space designed with a minimum of dead space to eliminate areas of concealment, location of toilet facilities or building entrances in high-foot traffic areas, and provisions of security guard patrol if needed. These measures shall be approved by the LAPD prior to the issuance of a building permit for the applicable phase of the Project.

PS-17: Upon completion of each phase of the Project, the Applicant shall provide the local Commanding Officer with access routes and other information with respect such phase that might facilitate police response, as requested by the LAPD.

PS-18: The Applicant shall provide project plans on a phase-by-phase basis to the LAPD Crime Prevention Unit to determine any additional crime prevention and security features appropriate to the design of the applicable phase of the Project. Any additional design features identified by the LAPD Crime Prevention Unit shall be incorporated into the final design for the applicable phase of the Project and to the satisfaction of LAPD, prior to issuance of a Certificate of Occupancy for such phase of the Project.

PS-19: Each phase of the Project shall incorporate design guidelines relative to security, semi-public and private spaces, which may include, but not be limited to, access control to buildings, secured parking facilities, walls/fences with key systems, well illuminated public and semi-public space designed with a minimum of dead space to eliminate areas of concealment, location of toilet facilities or building entrances in high-foot traffic areas and provision of security guard patrol throughout the portion of the Project Site on which the applicable phase is located, if needed.

PS-20: Prior to issuance of a building permit for each phase of the Project, the Applicant shall pay to the LAUSD the prevailing State Department of Education Development Fee for the applicable phase of the Project to the extent allowed by State law. School fees exacted from residential and commercial uses would help fund necessary school service and facilities improvements to accommodate anticipated population and school enrollment within the LAUSD service area, and would allow for the LAUSD to allocate these funds as they deem necessary.

PS-21: The Applicant shall comply with the open space regulations of the WC2035 Plan and also undertake one of the following: (1) dedicate additional parkland to meet the requirements of LAMC Section 17.12; (2) pay in-lieu fees for any land dedication requirement shortfall; and/or (3) provide onsite improvements equivalent in value to said in lieu fees. If any fees are collected, they should be spent within the WC2035 Plan area, including, for example, within opportunity areas along the Los Angeles River.

PS-22: The Applicant shall offset the burden on the existing libraries through one of the following: (1) payment of a fee based on an established nexus between the Project, demand and the need for additional personnel and facilities on a phase-by-phase basis; (2) provision of onsite facilities commensurate with the demand generated; or (3) some combination of the foregoing. If any fees are collected, they should be spent within the WC2035 Plan area.

TCR-1: The Project Applicant shall retain a professional Native American monitor procured by the Fernandeño Tataviam Band of Mission Indians to observe all clearing, grubbing, and grading operations up to 5-feet below the surface of native soil, unless there is evidence to suggest cultural resources extend below the specified depth.

- If cultural resources are encountered, the Native American monitor will have the authority to request ground disturbing activities cease within 60-feet of discovery to assess and document potential finds in real time.

TCR-2: The Lead Agency and/or applicant shall, in good faith, consult with the Fernandeño Tataviam Band of Mission Indians on the disposition and treatment of any Tribal Cultural Resource encountered during the Project.

TCR-3: If human remains or funerary objects are encountered during any activities associated with the Project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County coroner shall be contacted. If the human remains are determined to be Native American in origin by the County coroner, the applicant shall immediately notify the Lead Agency, the Fernandeño Tataviam Band of Mission Indians.

U-1: The Applicant shall be required to coordinate with the Department of Public Works, Bureau of Sanitation in order to ensure that existing and/or planned sewer conveyance and treatment facilities are capable of meeting wastewater flow capacity requirements. In coordination with the Bureau of Engineering, the Applicant shall be required to identify specific on- and off-site improvements needed to ensure that impacts related to wastewater conveyance capacity are addressed prior to issuance of plans for each phase of construction. Sewer capacity clearance from the Department of Public Works will be required at the time that a sewer connection permit application is submitted for a construction phase.

U-2: The Applicant shall coordinate with the City of Los Angeles Department of Water and Power (LADWP) in order to ensure that existing and/or planned water supply and water conveyance facilities are capable of meeting water demand/pressure requirements. In coordination with the LADWP, the Applicant will identify, with respect to each phase of the Project, specific onsite and offsite improvements needed to ensure that impacts related to water supply and conveyance demand/pressure requirements are addressed prior to issuance of a certificate of occupancy for the applicable project phase. Water supply and conveyance demand/pressure clearance from the LADWP will be required at the time that a water connection permit application is submitted for the applicable phase of the Project.

U-3: The Applicant shall coordinate with the City of Los Angeles Fire Department and Building Safety Department in order to ensure that existing and/or planned fire hydrants are capable of meeting fire flow demand/pressure requirements. The issuance of building permits for each phase of the Project will be dependent upon submission, review, approval, and testing of fire flow demand and pressure requirements, as established by the City of Los Angeles Fire Department and Building Safety Department prior to occupancy of the applicable Project phase.

U-4: The Applicant shall implement water conservation measures in new development that shall include, but not be limited to, the following:

- Installation of high-efficiency toilets (1.28 gallons per flush or less, includes dual flush
- High-efficiency urinals (0.125 gallons per flush or less, includes waterless)
- Restroom faucet flow rate of 1.5 gallons per minute or less
- Public restroom faucet flow rate of 0.5 gallons per minute or less and self-closing
- Showerhead flow rate of 2.0 gallons per minute or less
- Limit of one showerhead per shower stall
- High efficiency clothes washers (water factor of 4.0 or less)
- High efficiency dishwashers (Energy Star rated)
- Domestic water heating system located in close proximity to point(s) of use, as feasible
- Use of tankless and on-demand water heaters as feasible
- Cooling towers must be operated at a minimum of 5.5 cycles of concentration
- Install on-site water recycling as feasible
- Use of recycled water (if available) for appropriate end uses (irrigation, cooling towers, sanitary)
- Single pass cooling shall be prohibited (e.g. any vacuum pumps or ice machines)
- Irrigation shall include:
  - Weather-based irrigation controller with rain shutoff
  - Flow sensor and master valve shutoff (for large landscaped areas)
  - Matched precipitation (flow) rates for sprinkler heads
  - Drip/microspray/subsurface irrigation where appropriate
  - Minimum irrigation system distribution uniformity of 75%
  - Proper hydro-zoning, turf minimization and use of native/drought tolerant plant materials
  - Use of landscape contouring to minimize precipitation runoff

U-5: With respect to each phase of the Project, prior to the issuance of a building permit, the Applicant shall consult with LADWP to identify feasible and reasonable measures to reduce water consumption, including, but not limited to, systems to use reclaimed water for landscaping (should reclaimed water become available in Warner Center), drip irrigation, re-circulating hot water systems, water conserving landscape techniques (such as mulching, installation of drip irrigation systems, landscape design to group plants of similar water demand, soil moisture sensors, automatic irrigation systems, clustered landscaped areas to maximize the efficiency of the irrigation system), water conserving kitchen and bathroom fixtures and appliances, thermostatically controlled mixing valves for baths and showers, and insulated hot water lines, as per City adopted UBC requirements.

U-6: The Applicant shall comply with Phase I of the City of Los Angeles Emergency Water Conservation Plan including prohibiting hose watering of driveways and associated walkways; requiring decorative fountains to use recycled water, and repairing water leaks in a timely manner.

U-7: The Applicant shall comply with any additional mandatory water use restrictions imposed as a result of drought conditions.

U-8: The Applicant shall ensure that automatic sprinkler systems will be installed to irrigate landscaping during morning hours or during the evening to reduce water losses from evaporation. Sprinklers shall be reset to water less often in cooler months and during the rainfall season, so that water is not wasted in excessive landscape irrigation.

U-9: With respect to each phase of the Project, prior to issuance of building permits, the Applicant shall pay any appropriate fees imposed by the Department of Building and Safety. A percentage of any such building permit fees will be contributed to the fire hydrant fund, which provides for Citywide fire protection improvements.

U-10: The Project shall remain within Citywide water budgets established by LADWP. As required by LADWP, the Project may be required to provide for new water supply through a combination of water conservation (onsite and potentially offsite) and recycled water, such that the net increase in water demand (not including demand for recycled water) from Warner Center does not exceed the calculated demand anticipated for the City and/or Warner Center as appropriate and as documented in the City's most recent Urban Water Management Plan.

U-11: Any pumping and discharge or disposal of groundwater is considered to be a consumptive use. The Applicant shall report any pumping of groundwater to the Watermaster and LADWP shall be compensated for any loss of groundwater. In addition, reasonable efforts by the Applicant shall be made to beneficially use any extracted groundwater (for example cooling or irrigation).

U-12: The Applicant shall ensure that the Project recycles and/or salvages at least 75% of non-hazardous construction and demolition debris, in addition to the preparation of a construction waste management plan that, at a minimum, identifies the materials to be diverted from disposal and whether

the materials will be sorted on-site or comingled shall be developed and implemented. Excavated soil and land-clearing debris do not contribute to the amount of recycled/salvaged debris. Calculations can be done by weight or volume, but must be consistent throughout.

U-13: The Applicant shall coordinate with the City of Los Angeles' Department of Water and Power in order to ensure that existing and/or planned electrical facilities are capable of meeting electrical demand requirements. In coordination with the Department of Water and Power, the Applicant will be required to identify specific on- and off-site improvements needed to ensure that impacts related to electrical facility requirements are addressed prior to operation. Electrical facility design clearance from the Department of Water and Power will be required as established by the LADWP.

U-14: During the design process for each phase of the Project, the Applicant shall consult with the Department of Water and Power, Energy Services Subsection, and the Southern California Gas Company, the Commercial, Industrial or Residential Staff Supervisor, regarding possible Energy Conservation Measures for the Project.

U-15: The Applicant shall coordinate with the Gas Company in order to ensure that existing and/or planned natural gas facilities are capable of meeting natural gas demand requirements. In coordination with the Gas Company, the Applicant will identify specific on- and off-site improvements needed to ensure that impacts related to natural gas facility requirements are addressed prior to operation of each phase of the Project. Natural gas facility design clearance from the Gas Company will be required for each phase of the Project as established by the Gas Company.

DEPARTMENT OF CITY PLANNING - STANDARD CONDITIONS

C-1 That approval of this tract constitutes approval of model home uses, including a sales office and off-street parking. Where the existing zoning is (T) or (Q) for multiple residential use, no construction or use shall be permitted until the final map has recorded or the proper zone has been effectuated. If models are constructed under this tract approval, the following conditions shall apply:

1. Prior to recordation of each unit map, the subdivider shall submit a plot plan for approval by the Development Services Section of the Department of City Planning showing the location of the model dwellings, sales office and off-street parking. The sales office must be within one of the model buildings.

2. All other conditions applying to Model Dwellings under Section 12.22A, 10 and 11 and Section 17.05 O of the Code shall be fully complied with satisfactory to the Department of Building and Safety.

C-2 Consistent with Condition 27 and prior to the recordation of each unit map, the subdivider shall dedicate land and/or pay or guarantee the payment of a park and recreation fee with respect to such unit map, based on the latest fee rate schedule applicable. The amount of said fee to be established by the Advisory Agency in accordance with Section 17.12 of the Los Angeles Municipal Code and to be paid and deposited in the trust accounts of the Park and Recreation Fund.

C-3 That a landscape plan, prepared by a licensed landscape architect, be submitted to and approved by the Advisory Agency in accordance with CP-6730 prior to obtaining any permit. Replace all on-site trees to ensure continuation of the urban forest. Replace all nonnative trees greater than 10 centimeters (4 inches) in diameter at breast height (4.5 feet above surrounding grade) with native or non-native (non-invasive) trees of appropriate local climate tolerance at a 2:1 ratio. For native species, source materials should be from seeds or cuttings gathered within coastal southern California to ensure local provenance. Failure to comply with this condition as written shall require the filing of a modification to this tract map in order to clear the condition.

In the event the subdivider decides not to request a permit before the recordation of the final map, a covenant and agreement satisfactory to the Advisory Agency guaranteeing the submission of such plan before obtaining any permit shall be recorded.

C-4 In order to expedite the development, the applicant may apply for a building permit for an apartment/commercial building. However, prior to issuance of a building permit for apartments/commercial building, the registered civil engineer, architect or licensed land surveyor shall certify in a letter to the Advisory Agency that all applicable tract conditions affecting the physical design of the building and/or site, have been included into the building plans. Such letter is sufficient to clear this condition. In addition, all of the applicable tract conditions shall be stated in full on the building plans and a copy of the plans shall be reviewed and approved by the Advisory Agency prior to submittal to the Department of Building and Safety for a building permit.

BUREAU OF ENGINEERING - STANDARD CONDITIONS

S-1. (a) That the sewerage facilities charge be deposited prior to recordation of the final map over all of the tract in conformance with Section 64.11.2 of the Los Angeles Municipal Code (LAMC).

(b) That survey boundary monuments be established in the field in a manner satisfactory to the City Engineer and located within the California Coordinate System prior to recordation of the final map. Any alternative measure approved by the City Engineer would require prior submission of complete field notes in support of the boundary survey.

(c) That satisfactory arrangements be made with both the Water System and the Power System of the Department of Water and Power with respect to water mains, fire hydrants, service connections and public utility easements.

(d) That any necessary sewer, street, drainage and street lighting easements be dedicated. In the event it is necessary to obtain off-site easements by separate instruments, records of the Bureau of Right-of-Way and Land shall verify that such easements have been obtained. The above requirements do not apply to easements of off-site sewers to be provided by the City.

(e) That drainage matters be taken care of satisfactory to the City Engineer.

(f) That satisfactory street, sewer and drainage plans and profiles as required, together with a lot grading plan of the tract and any necessary topography of adjoining areas be submitted to the City Engineer.

(g) That any required slope easements be dedicated by the final map.

(h) That each lot in the tract complies with the width and area requirements of the Zoning Ordinance.

(i) That 1-foot future streets and/or alleys be shown along the outside of incomplete public dedications and across the termini of all dedications abutting unsubdivided property. The 1-foot dedications on the map shall include a restriction against their use of access purposes until such time as they are accepted for public use. Any necessary additional street dedications shall comply with the Americans with Disabilities Act (ADA) of 2010. This may require additional street dedications along both Burbank Blvd and De Soto Avenue as well as within the unit map limits on a unit map basis, to the satisfaction of the City Engineer.

(j) That any 1-foot future street and/or alley adjoining the tract be dedicated for public use by the tract, or that a suitable resolution of acceptance be transmitted to the City Council with the final map.

(k) That no public street grade exceeds 15%.

(l) That any necessary additional street dedications be provided to comply with the Americans with Disabilities Act (ADA) of 2010.

S-2. That the following provisions be accomplished in conformity with the improvements constructed herein:

(a) Survey monuments shall be placed and permanently referenced to the satisfaction of the City Engineer. A set of approved field notes shall be furnished, or such work shall be suitably guaranteed, except where the setting of boundary monuments requires that other procedures be followed.

(b) Make satisfactory arrangements with the Department of Traffic with respect to street name, warning, regulatory and guide signs.

(c) All grading done on private property outside the tract boundaries in connection with public improvements shall be performed within dedicated slope easements or by grants of satisfactory rights of entry by the affected property owners.

(d) All improvements within public streets, private streets, alleys and easements shall be constructed under permit in conformity with plans and specifications approved by the Bureau of Engineering.

(e) Any required bonded sewer fees shall be paid <u>prior to recordation of the final map</u>.

S-3. That the following improvements are either constructed <u>prior to recordation of the applicable unit map</u> or that the construction is suitably guaranteed on a unit map basis:

(a) Construct on-site sewers to serve the applicable tract as determined by the City Engineer.

(b) Construct any necessary drainage facilities.

(c) Install street lighting facilities to serve the applicable tract as required by the Bureau of Street Lighting.

(1) No street lighting improvements if no street widening per BOE improvement conditions. Otherwise relocate, upgrade, and/or replace street lights on a unit map basis; eight (8) on Burbank Boulevard and ten (10) on De Soto Avenue.

Notes:

The quantity of street lights identified may be modified slightly during the plan check process based on illumination calculations and equipment selection.

Conditions set: 1) in compliance with a Specific Plan, 2) by LADOT, or 3) by other legal instrument excluding the Bureau of Engineering condition S-3 (i), requiring an improvement that will change the geometrics of the public roadway or driveway apron may require additional or the reconstruction of street lighting improvements as part of that condition.

(d) Plant street trees and remove any existing trees within dedicated streets or proposed dedicated streets as required by the Street Tree Division of the Bureau of Street Maintenance. All street tree plantings shall be brought up to current standards. When the City has previously been paid for tree planting, the subdivider or contractor shall notify the Urban Forestry Division (213) 847-3077) upon completion of construction to expedite tree planting.

(e) Repair or replace any off-grade or broken curb, gutter and sidewalk satisfactory to the City Engineer.

(f) Construct access ramps for the handicapped as required by the City Engineer.

(g) Close any unused driveways satisfactory to the City Engineer.

(h) Construct any necessary additional street improvements to comply with the 2010 Americans with Disabilities Act (ADA) Standards for Accessible Design. This may require additional street dedications along both Burbank Blvd and De Soto Avenue as well as within the unit map limits on a unit map basis, to the satisfaction of the City Engineer.

(i) That the following improvements are either constructed prior to recordation of the final map or that the construction is suitably guaranteed:

(1) After submittal of hydrology and hydraulic calculations and drainage plans for review by the City Engineer prior to recordation of the final map, construction of public/or private drainage facilities within suitable easements may be required satisfactory to the Valley District Engineering.

(2) Improve De Soto Avenue being dedicated and adjoining the subdivision by the construction of the following:

a. A concrete curb, a concrete gutter, and an 8-foot concrete sidewalk and landscaping of the parkway.

b. Suitable surfacing to join the existing pavement and to complete a 56-foot half roadway.

c. Any necessary removal and reconstruction of existing improvements.

d. The necessary transitions to join the existing improvement.

(3) Improve all newly dedicated corner cuts with concrete sidewalks.

(4) Improve Burbank Boulevard being dedicated and adjoining the subdivision by the removal of existing curb, gutter and sidewalk and construction of the new concrete curb, gutter and an 8-foot concrete sidewalk and landscaping of the parkway, including any necessary removal and reconstruction of existing improvement.

(5) Improve the private street being provided by the construction of the following:

a. Construct additional concrete sidewalks to complete minimum 6-foot wide sidewalks.

b. Construct suitable surfacing to provide 32-foot wide minimum roadway or maintain the existing 44-foot wide private street roadways as approved under P-30435.

(6) Construct any necessary on-site main line sewers including house connections satisfactory to the Valley District Office.

NOTES:

The Advisory Agency approval is the maximum number of units permitted under the tract map action. However the existing or proposed zoning may not permit this number of units. This Vesting map does not constitute approval of any variations from the Municipal Code, unless approved specifically for this project under separate conditions.

Any removal of the existing street trees shall require Board of Public Works approval.

Satisfactory arrangements shall be made with the Los Angeles Department of Water and Power, Power System, to pay for removal, relocation, replacement or adjustment of power facilities due to this development. The subdivider must make arrangements for the underground installation of all new utility lines in conformance with Section 17.05-N of the Los Angeles Municipal Code (LAMC).

The final map of first unit map must be recorded within 36 months of this approval, unless a time extension is granted before the end of such period.

The Advisory Agency hereby finds that this tract conforms to the California Water Code, as required by the Subdivision Map Act.

The subdivider should consult the Department of Water and Power to obtain energy saving design features which can be incorporated into the final building plans for the subject development. As part of the Total Energy Management Program of the Department of Water and Power, this no-cost consultation service will be provided to the subdivider upon his request.

FINDINGS

FINDINGS OF FACT (CEQA)

Mitigated Negative Declaration, Case No. ENV-2017-1706-MND, was prepared for the project and circulated on December 19, 2019. The IS/MND found the following potential negative impacts, but found that all could be reduced to less than significant:

Aesthetics;
Air Quality;
Biological Resources;
Cultural Resources;
Geology and Soils;
Green House Gas Emissions;
Hazards and Hazardous Materials;
Hydrology and Water Quality;
Noise;
Public Services;
Tribal Cultural Resources; and
Utilities and Service Systems

The Advisory Agency has reviewed the IS/MND No. ENV-2017-1706-MND, as circulated on December 19, 2019, all comments received, and the imposition of mitigation measures and the Mitigation Monitoring Program prepared for the IS/MND. The Advisory Agency finds that IS/MND tiers from the Warner Center 2035 Program EIR, No. ENV-2008-3471-EIR, SCH No. 1990011055 ("Warner Center PEIR") pursuant to CEQA Guidelines 15152 and 15168. This IS/MND analyzes potential environmental impacts that were not examined as significant effects on the environment in the Warner Center PEIR; or were susceptible to substantial reduction or avoidance by the choice of specific revisions in the project, by the imposition of conditions, or other means.

The Advisory Agency determines that revisions in the project were made and agreed to by the applicant before the proposed IS/MND was released for public review which would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur. The Advisory Agency finds that there is no substantial evidence, in light of the whole record before the agency, that the project as revised may have a significant effect on the environment and that the IS/MND reflects the independent judgment and analysis of the City. The Advisory Agency further finds mitigation measures have been made enforceable conditions on the project.

In accordance with Section 21081.6 of the Public Resources Code (AB3180), the Deputy Advisory Agency has assured that the above identified mitigation measures will be implemented by requiring reporting and monitoring as specified in **Condition No. 40**.

FINDINGS OF FACT (SUBDIVISION MAP ACT)

In connection with the approval of Vesting Tentative Tract Map No. VTT-74891 the Advisory Agency of the City of Los Angeles, pursuant to Sections 66473.1, 66474.60, .61 and .63 of the State of California Government Code (the Subdivision Map Act), makes the prescribed findings as follows:

(a) THE PROPOSED MAP IS CONSISTENT WITH APPLICABLE GENERAL AND SPECIFIC PLANS.

The Land Use Element of the General Plan consists of the 35 Community Plans within the City of Los Angeles. The Community Plans establish goals, objectives, and policies for future developments at a neighborhood level. Additionally, through the Land Use Map, the Community Plan designates parcels with a land use designation and zone. The Land Use Element is further implemented through the Los Angeles Municipal Code (LAMC) and the Warner Center 2035 Specific Plan.

The proposed subdivision is located within the areas governed by the Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan and the Warner Center 2035 Specific Plan (WC 2035 Plan). The General Plan Framework Element sets forth the long-term growth and development of the City of Los Angeles through its goals, objectives, and policies, which the City implements through its individual community plans and specific plans. The proposed Project includes a mix of buildings and uses that are consistent with the purposes, intent, and provisions of the General Plan, including the Community Plan, and the WC 2035 Plan. A review of the relevant and applicable General Plan goals, objectives, and policies is presented below.

General Plan Framework Element. The land use designation for the Project Site is Regional Center Commercial. Regional Centers, as defined in the Land Use Chapter (Chapter 3) of the Framework Element, "are intended to serve as the focal points of regional commerce, identity, and activity." Additionally, the definition in Chapter 3 describes Regional Centers as "contain[ing] a diversity of uses such as corporate and professional offices, retail commercial malls, government buildings, major health facilities, major entertainment and cultural facilities and supporting services. Region-serving retail commercial malls and retail services should be integrated where they complement and support the other uses in the Regional Center. The development of sites and structures integrating housing with commercial uses is encouraged in concert with supporting services, recreational uses, open spaces, and amenities."

The Framework Element goes on to further describe the physical characteristics of Regional Centers, including "Areas containing mid- and high-rise structures sited on large independent lots, set back from the property frontages (e.g., Warner Center and most of Century City). Though inhibited by the separation of structures, it is encouraged that buildings and sites be designed to improve pedestrian activity within the center."

Consistent with the definition and physical development for Regional Centers, the proposed Project is a mixed-use development on a 24-acre site that combines commercial office space, hotel, retail, restaurant, community space and multi-family (rental and ownership) housing in mid-rise and high-rise structures, with building setbacks that meet the applicable development regulations in the WC 2035 Plan, and provides pedestrian adapted pathways throughout the Project Site to maintain pedestrian connectivity between the new buildings and the adjacent properties and street frontages.

Goal 3F of the Framework Element is to provide "mixed-use centers that provide jobs, entertainment, culture and serve the region." In support of this Goal, Objective 3.10 is to "[r]einforce existing and encourage the development of new Regional Centers that accommodate a broad range of uses that serve, provide job opportunities, are accessible to the region, are compatible with adjacent land uses, and are developed to enhance urban lifestyles."

In conformance with this Goal and Objective, the Project redevelops the existing commercial office park with a mixed-use development that includes commercial office space, hotel, retail, restaurant, community space and multi-family housing uses. These

combined uses serve the overall goals of the WC 2035 Plan to establish Warner Center as the primary Regional Center in the West San Fernando Valley providing work, live, and play opportunities. The opportunity presented by the Project for future residents and workers to live and work in an urban setting that does not require a car to access many of the essential aspects of one's community will further the objectives of the WC 2035 Plan.

Goal 7G in the Economic Development Chapter (Chapter 7) of the Framework Element seeks "[a] range of housing options in the City." Objective 7.9 of this Goal is to "[e]nsure that the available range of housing opportunities is sufficient, in terms of location, concentration, type, size, price/rent range, access to local services and access to transportation, to accommodate future population growth and to enable a reasonable portion of the City's work force to both live and work in the City."

Consistent with this Goal and Objective, the proposed Project contains a range of housing opportunities from apartment to condominium units, including Work-Live Units. The mix of units includes floor plans ranging from studio to three-bedroom units, allowing for a diverse residential population.

The incorporation of ground floor retail and restaurant uses will provide residents access to local services within walking distance. The proximity of the Project to a number of local and regional transit stops will allow residents and workers alike to have meaningful access to transportation. The following local and regional bus lines are within convenient walking distance (approximately 1,500 feet) of the Project Site:

- Metro Local Line 244
- Metro Local Line 150
- Metro Local Line 161
- Metro Shuttle Line 601 (Warner Center Shuttle)
- Santa Clarita Transit Route 796/797
- Antelope Valley Transit Authority 787

The Project Site will also have access to the Orange Line. Metro Shuttle Line 601 (the Warner Center Shuttle) provides two stops located adjacent to and on the Project Site, one at the northwest intersection of Burbank Boulevard and De Soto Avenue, and the other on Warner Center Lane, just north of Burbank Boulevard. The shuttle runs through the Project Site along Warner Center Lane every ten minutes. The shuttle provides direct connection to and from the Metro Orange Line Canoga Station and throughout Warner Center, including direct connection to the Warner Center Towers, Warner Center Corporate Park, and Westfield Topanga, the Village and the Promenade. The Warner Center Shuttle also stops at the Warner Center Transit Hub at the intersection of Oxnard Street and Owensmouth Avenue.

The proximity of the Project to a variety of public transit options, both existing and proposed, will provide new residents and businesses with greater flexibility and quality of life choices. The Project will further the City's approach to "smart growth", as it expands employment, transportation access, housing type and size, and concentrates uses in an efficient manner to improve public health and quality of life overall. Given the Project's range of housing options and its proximity to local services and transportation, the Project is generally consistent with the Economic Development section of the Framework Element.

General Plan Housing Element. Goal 1 of the General Plan Housing Element is "Housing Production and Preservation." Objective 1.1 of this Goal is to "[p]roduce an

adequate supply of rental and ownership housing in order to meet current and projected needs." To implement this Goal and Objective, Policy 1.1.3 is to "[f]acilitate new construction and preservation of a range of different housing types that address the particular needs of the City's households" and Policy 1.1.4 is to "[e]xpand opportunities for residential development, particularly in designated Centers, Transit Oriented Districts and along Mixed-Use Boulevards". Similarly, Policy 1.3.5 of the Housing Element is to "[p]rovide sufficient land use and density to accommodate an adequate supply of housing units by type and cost within the City to meet the projections of housing needs, according to the policies and objectives of the City's Framework Element of the General Plan." Additionally, Goal 2 of the Housing Element is, "Safe, Livable, and Sustainable Neighborhoods", and in support of this Goal is Objective 2.2, to "[p]romote sustainable neighborhoods that have mixed-income housing, jobs, amenities, services and transit."

Consistent with these goals, objectives and policies, the Project is a mixed-use development containing much-needed housing with a variety of housing unit types (rental, including 10% workforce housing, and ownership) and sizes served by several transit options, as discussed above.

The Project includes a total of 1,009 residential units, with a mix of studio, one-, two- and three-bedroom units and Work-Live Units, as well as office, hotel, and other commercial (restaurant and/or retail) uses, as well as community space (to be completed in Phase VIII). The phased development of the Project will not displace any current residents or remove any existing housing stock since it will be built on land currently used for commercial uses. The Project will instead substantially increase the amount of available housing stock in the City of Los Angeles to address housing demand. Additionally, the Project encourages a more sustainable neighborhood that contains a mix of housing, job opportunities, commercial services, and amenities near public transit. Further, the Project will provide 10% of its rental units as workforce housing, meeting needs for affordable housing in the area.

The Project includes amenities including, but not limited to, several landscaped courtyards, swimming pool/spa facilities, recreation and fitness outlets, children's play areas, and dog runs, which will improve future residents' quality of life and reduce the need for additional public recreational resources. The Project's proximity to a variety of public transportation services will also increase the sustainability of this neighborhood, as it will allow future and current residents to utilize alternative modes of transportation. The availability of multiple modes of transportation will in turn reduce single- occupancy vehicle trips, and therefore, emissions of common air pollutants. The Project's concentration of a mix of uses, as well as proximity to a variety of existing commercial, retail, and service uses, will further reduce the need for automobile trips and improve the quality of life for residents and community members at large. In light of the Project's mixed-use program of commercial and residential uses located in close proximity to several modes of public transportation, the Project is consistent with the Housing Element's applicable goals, objectives, and policies.

General Plan Mobility Plan 2035. Policy 3.3, for Land Use Access and Mix, is to "[p]romote equitable land use decisions that result in fewer vehicle trips by providing greater proximity and access to jobs, destinations, and other neighborhood services." Policy 3.4, for Transit Services, is to "[p]rovide all residents, workers, and visitors with affordable, efficient, convenient, and attractive transit services." Mobility Plan 2035, which is the transportation element of the General Plan, encourages development that promotes concentrations of housing, jobs, and local services within close proximity of one another. The Project is consistent with the above policies of the Mobility Element, as it proposes

mixed-use residential and commercial buildings located in close proximity to one another as well as a variety of existing public transit lines and future transit opportunities. The Project will include 1,009 residential units, including Work-Live Units, and 1,140,746 square feet square feet of office space in addition to several ground-floor commercial (restaurant, retail and/or office) uses, providing future residents, employees, and patrons from the broader Warner Center community access to a mixed land use that helps to minimize vehicular trips.

The Project will also be conditioned through the Project Permit Compliance entitlement to dedicate land along De Soto Avenue to complete a 56-foot half roadway, a 16-foot half parkway, and an eight (8)-foot half sidewalk, within a 68-foot half right-of-way and a 12-foot easement, consistent with the Warner Center 2035 Specific Plan standard for Major Highway Class I and the Mobility Plan standard for Modified Boulevard II. Also, the Project will be conditioned to dedicate land along Burbank Boulevard to complete a 35-foot half roadway, an eight (8)-foot half sidewalk, and an eight (8)-foot half parkway within a 45-foot half right-of-way and a six (6)-foot easement, consistent with the Warner Center 2035 Specific Plan standard for Secondary Highway and the Mobility Plan standard for Modified Avenue I. With the inclusion of a New Street, the Project will be conditioned such that the New Street meets the following standards: a minimum 64-foot right-of-way, including a maximum roadway width of 36 feet, a minimum paved sidewalk width of six (6) feet on each side of the roadway, and a minimum parkway width of eight (8) feet on each side of the roadway from the edge of the sidewalk to the edge of the roadway curb. There are controlled crosswalks with raised, enhanced paving, crosswalks, and crosswalks with enhanced paving located throughout the Project site, across Warner Center Lane as well as across Adler Drive, Commerce Drive, and Towncenter Drive (private driveways), depicted on Plan Sheet MP-23.

The Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan. The Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan (the "Community Plan") is part of the Land Use Element of the General Plan, with which the Project is consistent. The Project is consistent with the following relevant residential and commercial land use goals, objectives and policies identified in the Community Plan:

- Goal 1 - A safe, secure, and high quality residential environment for all economic, age, and ethnic segments of the Community Plan Area.
- Objective 1-1 - Achieve and maintain a housing supply sufficient to meet the diverse economic needs and current and projects population to the year 2010.
- Policy 1-1.1 - Maintain an adequate supply and distribution of multi-family housing opportunities in the Community Plan Area.
- Objective 1-2 - Reduce automobile trips in residential areas by locating new housing in areas offering proximity to goods, services, and facilities.
- Policy 1-2.1 - Locate higher residential densities near commercial centers and major bus routes where public service facilities, utilities and topography will accommodate development.
- Policy 1-2.2 - Encourage multiple family residential development in commercial zones.

The Project is consistent with these goals, objectives, and policies, as it includes multi-family units with a range of unit types from studio to three-bedroom floor plans, and includes apartments, condominiums and Work-Live Units as part of a larger, multi-phase, mixed-use development. The variety of housing type helps to provide housing that is accessible for a broad segment of the community. The Project's proximity to a multitude of public transportation options will further ensure the accessibility of such housing. In

addition, the location of housing within a mixed-use development will reduce the number of vehicle trips because goods, services, and amenities will be located immediately adjacent to and within walking distance of the residential buildings.

- Goal 2 - An economically vital commercial sector offering a diversity of goods and services to meet the needs of the community plan area. This means that commercial land use policies must support maximum efficiency and accessibility of commercial development while preserving the historic commercial and cultural character of the district.
- Objective 2-1 - Conserve and strengthen viable commercial development and encourage recycling of obsolete commercial development.

The Project includes the phased redevelopment of commercial structures built in the 1980s. The existing low-density commercial buildings and their age limit the Project Site's commercial vitality and fails to provide a diversity of goods and services that meet the needs of the community. Through the incorporation of mixed-use development and modern commercial spaces, the Project will better meet the needs of the Warner Center community and strengthen the economic viability of the commercial sector.

- Goal 5 - A community with sufficient open space in balance with new development to serve the recreational environment and health needs of the community.

The Project includes 121,683 square feet (2.79 acres) of Publicly Accessible Open Space (PAOS) for recreational opportunities, as well as common open space exclusively for the residential uses. Pedestrian Adapted Pathways (PAPs) are incorporated into the PAOS to provide both access to all of the project buildings and connectivity between De Soto Avenue and Burbank Boulevard. The incorporation of nine (9) focal points distributed throughout the Project Site will provide additional open and gathering spaces in the form of shaded seating areas for employees, residents, and visitors.

For these reasons, the Project is consistent with the applicable goals, objectives and policies in the Community Plan.

WC 2035 Plan. The Project is in compliance with the applicable development regulations and design guidelines in the WC 2035 Plan, as discussed in more detail below, which discussion is incorporated herein by this reference. The Project is consistent with the WC 2035 Plan and its vision, creating the desired urban center with a mix of land uses. The Project is a mixed-use development on a 24-acre property that combines commercial office space, hotel, retail, restaurant, community space and multi-family housing in mid-rise and high-rise structures, together with PAPs throughout the Project Site, which will be further reinforced through conditions of Project Permit Compliance to create pedestrian connectivity between the buildings and to the adjacent street frontages.

(b) THE DESIGN OR IMPROVEMENT OF THE PROPOSED SUBDIVISION IS CONSISTENT WITH APPLICABLE GENERAL AND SPECIFIC PLANS.

For purposes of a subdivision, design and improvement is defined by Section 66418 and 66419 of the Subdivision Map Act and LAMC Section 17.02. Design refers to the configuration and layout of the proposed lots in addition to the proposed site plan layout. Pursuant to Section 66427(a) of the Subdivision Map Act, the location of the buildings is not considered as part of the approval or disapproval of the map by the Advisory Agency. Easements and/or access and “improvements” refers to the infrastructure facilities serving the subdivision. LAMC Section 17.05 enumerates the design standards for a tract map

and requires that each map be designed in conformance with the Street Design Standards and in conformance with the General Plan. LAMC Section 17.05 C requires that the tract map be designed in conformance with the zoning regulations of the project site.

The tract map was distributed to and reviewed by the various city agencies of the Subdivision Committee that have the authority to make dedication, and/or improvement recommendations. The Bureau of Engineering reviewed the tract map for compliance with the Street Design Standards. The Bureau of Engineering has recommended dedication and improvements, consistent with the standards of the WC 2035 Plan and the Mobility Plan. As conditioned, the design and improvements of the proposed subdivision are consistent with the applicable General Plan.

Further, the design of the proposed subdivision and the Project is consistent with the General Plan, Community Plan, and Specific Plan. As discussed in the prior finding, which is incorporated herein by this reference, the Project is consistent with the applicable goals, objectives, policies, regulations and guidelines in the General Plan, including the Community Plan, and the WC 2035 Plan. The balance of this finding sets forth additional details regarding the consistency of the Project with the applicable development regulations and design guidelines in the WC 2035 Plan.

The Project Site consists of multiple lots within the Commerce District established in the WC 2035 Plan. VTTM 74891 merges and re-subdivides the Project Site into eight lots, including one lot (Lot 5) that will be developed with 168 residential condominium units for condominium purposes. The Project is consistent with the development regulations for the Commerce District established in the WC 2035 Plan and other development regulations and design guidelines in the WC 2035 Plan. Some aspects of the WC 2035 Plan with which the Project is consistent include, but are not limited to, the following:

The Project includes multi-family residential, work-live, office, hotel, restaurant and retail uses as well as community space, consistent with the uses and development intensity permitted in the Commerce District under the WC 2035 Plan. As set forth in *Appendix A: Land Use Matrix* of the WC 2035 Plan, a variety of land uses are permitted in the Commerce District, including live/work units, multiple residential dwelling units, offices, restaurants and retail uses. A base maximum Floor Area Ratio (FAR) of 4.5:1 is permitted in the Commerce District. The Project includes 2,634,268 square feet of floor area on the 1,042,301-square foot Project Site (post anticipated dedications), for an overall FAR of 2.52:1.

With regard to height, the Project varies in height from 35 feet (2 stories) to 350 feet (24 stories). Projects within the Commerce District are permitted an unlimited building or structure height, subject to certain provisions that have been met.

With regard to setbacks, projects within the Commerce District are required to observe a front setback area of not less than 12 feet and not more than 15 feet. Projects not located on an Active Street Frontage, however, are permitted a front setback area of up to 20 feet. A minimum of 30% of the required setback area shall be landscaped. The Project includes front setback areas in compliance with those standards, except as described in DIR-2017-1708-SPP-1A regarding the setback for Lot 1. In addition, as shown in the plans for the Project, on Sheet L-01 (Ground Level Landscape Plan), the Project exceeds the minimum 30% landscaped front setback requirement, with 36,694 square feet (or 47%) of combined landscaping in the front setback areas (at project completion).

The Project complies with the applicable parking provisions set forth in WC 2035 Plan Section 6.2.3 and any applicable LAMC provisions, providing 1,627 residential parking spaces and 3,921 non-residential parking spaces. Parking is detailed in the Project Plans, Sheets MP-24, MP-25 and MP-26 (Phasing Diagrams). For each new building, all parking required for such building will be constructed simultaneously and on the same lot.

In accordance with the PAOS requirement in WC 2035 Plan Section 6.2.2.1, the Exception provision in Section 6.2.2.3.2 for Warner Center Lane, which will be improved as a "New Street," and the Incentivized Uses and Development Bonus, the Applicant proposes 121,683 square feet (2.79 acres) of PAOS for the Project, as detailed in the Project Plans, Sheet MP-22 (Publicly Accessible Open Space Diagram), in compliance with Warner Center standards.

The Project, as subdivided in the manner set forth in VTTM 74891, has been designed to comply with the applicable development regulations in the WC 2035 Plan, and the subdivision and improvements are otherwise consistent with the General Plan, including the Community Plan, and the WC 2035 Plan.

The Project has been further conditioned so that, in accordance with Warner Center 2035 Specific Plan Section 5.3.3.2.2, any changes to any phase of development which are not substantially compliant with approved plans, including changes to elevations, site plans, orientations, and other design features to a Multiple-Phase Project, shall require a modification to a Project Permit Compliance pursuant to the requirements of LAMC Section 11.5.7-O.

Additionally, pursuant to Warner Center 2035 Plan Section 6.1.2.2.10 regarding the anticipated extension of Variel Avenue from Califa Street to the north to Burbank Boulevard to the south, the Project is conditioned to design the driveway identified on plans as Adler Drive, along the west side of the Project site, to be directly accessible to Burbank Boulevard and to be built to a width of 28 feet, as proposed on Plan Sheet MP-30, in anticipation of the adjacent properties to the north and west being redeveloped, and allowing for an extension of Variel Avenue in a southerly direction to Burbank Boulevard. Additionally, there shall be a 10-foot parkway located to the west of Adler Drive, extending to the property line, as proposed by the applicant and depicted on Plan Sheet MP-30. The northern end of Adler Drive may be temporarily improved as private, park-like open space, as proposed by the applicant, until such time that the property to the north redevelops.

Should the properties to the north and west redevelop during the time frame in which the Warner Center 2035 Plan is in effect, the possibility remains that Variel Avenue may be extended from Califa Street in the north to Burbank Boulevard in the south. Should the properties not redevelop within that time frame, however, Adler Drive provides vehicular, as well as pedestrian connectivity on the eastern side of Adler Drive, from Burbank Boulevard to the northern property line of the site, consistent with the intent of the Warner Center 2035 Plan to break up large blocks with vehicular and pedestrian access.

(c) THE SITE IS PHYSICALLY SUITABLE FOR THE TYPE OF DEVELOPMENT.

The project site is a generally level, irregular-shaped site consisting of 1,062,923 gross square feet (24.40 acres) of lot area. The site is currently developed with 12 existing buildings with 340,339 total square feet of floor area.

The Project Site is physically suitable for the subdivision and improvements that comprise the proposed Project. The Project Site is not located in a Hillside area, a Very High Fire

Hazard Severity Zone, a Flood Zone, a Hazardous Waste Area, a Landslide Area, or a Methane Buffer Zone. The project site is located within 12.4 km of the Malibu Coast Fault, but is not located within the Alquist-Priolo Fault Zone. The subject site is, however, located within a State of California liquefaction seismic hazard zone.

Prior to the issuance of any permits, the project would be required to be reviewed and approved by the Department of Building and Safety and the Fire Department. The site is not identified as having hazardous waste or past remediation. The site is in Flood Zone X/Type C, which denotes areas an area of minimal hazard from the principal source of flood. There are currently no flood zone compliance requirements for construction in this zone. The site is not subject to the Specific Plan for the Management of Flood Hazards (floodways, floodplains, mud prone areas, coastal high-hazard and flood-related erosion hazard areas

The Department of Building and Safety, Grading Division recommends approval of VTT-74891 in the Soils Report Approval Letter issued for the Project, dated March 10, 2020, which states that the geotechnical reports referenced therein are acceptable for the purpose of the approval of VTTM 74891, provided the following conditions are complied with during site development: (1) no grading or building permits shall be issued based on the Soils Report Approval Letter and the reports referenced therein, and (2) that prior to the issuance of grading or building permits with respect to a project phase, a comprehensive soils report shall be submitted to the Grading Division for review and approval with respect to such project phase. The tract map thus will receive approval contingent on the satisfaction of the Department of Building and Safety, Grading Division prior to the recordation of each unit map and issuance of any grading or building permits.

(d) THE SITE IS PHYSICALLY SUITABLE FOR THE PROPOSED DENSITY OF DEVELOPMENT.

The Project Site is physically suitable for the proposed density of development. The WC 2035 Plan regulates density for the Project Site, which is located within the Commerce District established in the WC 2035 Plan. The development standards for the Commerce District limits development through the establishment of a maximum floor area ratio (FAR). A maximum FAR of 4.5:1 is permitted on the Project Site, which is far greater than the 2.52:1 FAR proposed for the Project. A 4.5:1 FAR for the Project Site would allow for 4,690,355 square feet of floor area, while the Project consists of only 2,634,268 square feet of combined residential and non-residential floor area. As measured by the permitted and proposed FAR per zone, the proposed Project's intensity of development is physically suitable for the Project Site.

Furthermore, the Final Environmental Impact Report certified for the WC 2035 Plan analyzed the environmental impacts associated with allowable density for the WC 2035 Plan area, including the Project Site. Therefore, the long-term planning document for Warner Center, and its related environmental document, contemplated and allows the proposed density for the Project Site.

Finally, the tract map has been approved contingent upon the satisfaction of the Department of Building and Safety, Grading Division prior to the recordation of the map and issuance of any permits.

(e) THE DESIGN OF THE SUBDIVISION OR THE PROPOSED IMPROVEMENTS ARE NOT LIKELY TO CAUSE SUBSTANTIAL ENVIRONMENTAL DAMAGE OR SUBSTANTIALLY AND AVOIDABLY INJURE FISH OR WILDLIFE OR THEIR HABITAT.

The proposed subdivision and related improvements will not likely cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat. The Project Site is located in an urbanized area of the City of Los Angeles, and is currently developed with buildings, paved surface parking lots, and landscaping. Given that the proposed subdivision is an urban infill development that would replace a property currently improved with commercial buildings and associated surface parking and landscaping, the Project will likely not cause any substantial environmental damage that would injure fish or wildlife or their habitat. Further, the Project has been analyzed for its effect on the environment and has been conditioned through Condition No. 40 containing Mitigation Measures AES-1 through U-15.

(f) THE DESIGN OF THE SUBDIVISION OR TYPE OF IMPROVEMENTS IS NOT LIKELY TO CAUSE SERIOUS PUBLIC HEALTH PROBLEMS.

The design of the proposed subdivision and improvements will not likely cause serious public health problems. The proposed subdivision includes new multi-family apartment and condominium units and Work-Live Units, and will replace an existing auto-oriented commercial park with new commercial floor area occupied by office, retail, restaurant and hotel uses. The replacement of the existing development with a new development will not cause any serious public health problems.

The design of the Project furthers the intent of the WC 2035 Plan, which seeks to create an environment where there is a mix of uses. The Project has the potential to result in fewer vehicle trips, as homes, jobs, amenities and services will be located immediately adjacent to each other and the Project is proximately located next to several modes of public transportation. This is a potential benefit to the public health of the community in improving air quality.

(g) THE DESIGN OF THE SUBDIVISION OR THE TYPE OF IMPROVEMENTS WILL NOT CONFLICT WITH EASEMENTS, ACQUIRED BY THE PUBLIC AT LARGE, FOR ACCESS THROUGH OR USE OF PROPERTY WITHIN THE PROPOSED SUBDIVISION.

The design of the proposed subdivision and proposed improvements will not conflict with easements for access through or use of the Project Site. The Project does not contemplate the removal or rerouting of any public streets. Warner Center Lane will be upgraded to meet the "New Street" design standards in the WC 2035 Plan, significantly improving the private street easement to provide public access to the Project.

VTTM 74891 shows all other public utility, sanitary sewer, flood control, street trees and lighting, and communications easements, and describes the status of each easement as to whether it will remain, be merged by the final map, or quitclaimed, as appropriate.

(h) THE DESIGN OF THE PROPOSED SUBDIVISION SHALL PROVIDE, TO THE EXTENT FEASIBLE, FOR FUTURE PASSIVE OR NATURAL HEATING OR COOLING OPPORTUNITIES IN THE SUBDIVISION. (REF. SECTION 66473.1)

The design of the proposed subdivision will provide, to the extent feasible, for future passive or natural heating or cooling opportunities in the subdivision. The Project will include features such as, but not limited to, building materials, architectural features (i.e., balconies), courtyards, and landscaping that will minimize glare and reflected heat, and will provide shade to reduce heat gain. Passive features are not contemplated at this time,

but the Project will comply with Title 24, Part 6 of the California Code of Regulations, which mandates many passive features that focus on promoting more energy-efficient buildings relating to building envelope, heating and cooling, water heating, and lighting restrictions. In, addition, the Project will comply with applicable provisions of the City's Green Building Code, which, among other things, are intended to improve the energy performance standards of new construction. Furthermore, in compliance with the WC 2035 Plan, the Project will be designed to meet the equivalent of a LEED (Leadership in Energy and Environmental Design) Silver rating.

These findings shall apply to both the tentative and final maps for Vesting Tentative Tract No VTT-74891.

COVID-19 UPDATE

Interim Appeal Filing Procedures

March 27, 2020

LOS ANGELES CITY PLANNING

Consistent with Mayor Eric Garcetti's "Safer At Home" directives to help slow the spread of COVID-19, the Department of City Planning is implementing new procedures for the filing of appeals for non-applicants that eliminate or minimize in-person interaction. There are two options for filing appeals, which are effective immediately and described below.

OPTION 1: EMAIL PLUS US MAIL

This is a two-step process including pre-clearance by email of the appeal application followed by application and payment submittal via US Mail.

STEP 1:

Email **planning.figcounter@lacity.org** with the subject line: "**Request to File Appeal**." In the email body provide:

- The case number
- Appellant contact information (name, email, telephone number)

Include as individual attachments to the email:

- Copy of Signed Appeal Application
- Justification
- Letter of Determination

City Planning staff will contact the appellant to confirm whether the appeal is complete and meets the applicable provisions of the Los Angeles Municipal Code (LAMC). The appellant will then be instructed to move forward with Step 2.

STEP 2:

Send appeal application via US Mail, postmarked no later than the last day of the appeal period. The package shall include:

- Original Appeal Application (wet signatures),
- Copy of email correspondence with City Planning staff (from Step 1)
- Appeal fee, check payable to the City of Los Angeles ($109.47 for an aggrieved party, not the Project Applicant.)

Mail the appeal application to:
Department City Planning - Metro DSC
201 N. Figueroa St., 4th Floor
Los Angeles, CA 90012

City Planning staff will email and mail the appellant with a receipt for payment. Note: only the original application, email, and check need to be sent via US Mail. This ensures a standard envelope with standard postage is sufficient, and no trip to the Post Office is necessary. Steps 1 and 2 must both be completed. An email alone is not sufficient to satisfy appeal requirements.

OPTION 2: DROP OFF AT DSC

An appellant may continue to submit an appeal application and payment at any of the three Development Services Center (DSC) locations. City Planning established drop off areas at the DSCs with physical boxes where appellants can drop off appeal applications and payment. **Drop off areas are monitored in secure locations outside the three DSCs (Metro/Downtown, Van Nuys, and West Los Angeles) and are available during regular business hours.**

City Planning staff will follow up with the appellant via email and phone to:

- Confirm that the appeal package is complete and meets the applicable provisions of the LAMC
- Provide a receipt for payment

FACT SHEET

LOS ANGELES CITY PLANNING

Planning Entitlement Appeals

Summary

Discretionary planning decisions in Los Angeles can be appealed, at times, to one of the eight City Commissions that oversee planning-related issues and, in some instances, directly to the City Council. These appeals provide members of the public with an opportunity to challenge certain planning decisions, exercising their rights in accordance with the Los Angeles Municipal Code (LAMC). City Planning has developed an informational fact sheet, complete with frequently asked questions, to inform the public of their rights and opportunities for filing project appeals.

Background

The LAMC outlines a process to allow members of the public to appeal land use decisions that are issued by the City. Appeals are intended to challenge the merits of the decision, specifically to contend that a decision maker erred or abused their discretion. To allow community members the ability to appeal qualifying planning decisions at a minimal personal cost, City Planning has consistently (and significantly) subsidized non-applicant appeal fees. This has allowed individuals to be part of a fair and equitable process, one which has provided the public with the opportunity to question certain decisions.

The Department has developed a fact sheet to further clarify the process for filing project-related appeals. This document will be updated periodically, as needed. For additional information, please contact the planning staff located at the Figueroa Plaza (Downtown), Marvin Braude (Van Nuys), or West Los Angeles Development Services Centers preferably via email at planning.figcounter@lacity.org.

Frequently Asked Questions

Where are project appeals filed?

Appeals can be filed at any of the three Development Services Centers (DSCs)—Downtown, Van Nuys, and West Los Angeles—where planning staff is located. A physical drop off area has been set up at each location to allow applicants to submit their applications, without having to file an initial appointment or enter the premises. As an additional option, the Department has also created an online portal for electronic appeal applications. Click this link to access the online forms and submit the relevant information electronically.

How long do applicants have to submit a project-related appeal?

An appeal must be filed within a specified period of time as established by the LAMC—varying in length from 10 to 15 days of the issuance of the Letter of Determination (LOD), depending on the planning entitlements being appealed. As a point of reference, deadlines for filing appeals are noted in the Los Angeles Municipal Code (LAMC) and typically also identified within the LOD.

Where can applicants access the appeal form and corresponding instructions?

The appeal form and instructions can be found here. Both an applicant and "aggrieved party" (a community member opposing the decision) may choose to file an appeal. All appeals will be processed at the same time. Each appeal form represents one appeal, regardless of the number of individuals who have signed the appeal form. For certain planning entitlements, such as determinations for projects that file under the Density Bonus and Transit Oriented Communities Incentive Programs, appeals are limited to adjacent and abutting owners of property or occupants, as specified in the implementing State and/or local statute. Neighborhood Councils and/or City-appointed decision-making bodies may not file an appeal.

Who decides the outcome of project appeals?

Letters of Determination are issued by the Director of Planning (DIR), Associate Zoning Administrator (AZA), Deputy Advisory Agency (DAA), Area Planning Commission

(APC), or City Planning Commission (CPC). Depending on the initial decision-maker, there are three appellate bodies for planning cases in Los Angeles: the Area Planning Commissions, the City Planning Commission, and the City Council. The LAMC establishes appeal procedures including which types of decisions are eligible for a first- and second-level appeal (meaning that in some cases, the project can be appealed again to a higher decision maker).

How long does the City have to consider the appeal of a land use decision?

According to the LAMC, the City must process appeals under strict time limits. Depending on the planning entitlements, the date that an appeal hearing must be scheduled varies between 30 days from appeal submittal up to 75 days from the last day of the appeal period. These time periods may be extended if there is mutual agreement between the applicant and the City. The LAMC does not, however, allow a non-applicant to request an extension beyond this allotted time period for project appeals.

How (and when) are notifications sent notifying the appellant of their hearing date?

The LAMC specifies the timelines by which appeal hearings must be held. In general, appellants receive notice of their upcoming hearing at least 10 days prior to the hearing date. Notices for some appeal hearings may be published in a local newspaper. If unavailable to attend the date of the hearing, the appellant can submit written comments to the decision-maker or appoint a representative to provide public testimony on their behalf at the public hearing.

Who from City Planning can provide assistance, should there be any questions?

Planning staff at the DSCs serve as a main point of contact for general inquiries. Once a project appeal has been submitted, questions can be directed to the assigned planner, who will process the appeal and take it to the hearing. The contact information for the assigned planner may be found on the Department's Planning Case Tracking System (PCTS).

When can documents be sent to the appellate decision maker who will hear the appeal?

In addition to the appeal application, the appellant may submit documents for the official public record at the time the appeal is filed. If there is a need to provide additional documents after the appeal has been filed, the appellant can send them to the planner assigned to the appeal. Information submitted after a staff recommendation report has been drafted will be included in the public record, but it will not have been considered at the time of the writing of the staff report.

City Planning's Commission Office requires that supplemental information be provided more than 48 hours in advance of the hearing, and meet the criteria as outlined below.

REQUIREMENTS FOR COMMISSION SUBMISSION OF MATERIALS

Regular Submissions: Initial Submissions, not limited as to volume must be received no later than by 4:00 pm on the Monday of the week prior to the week of the Commission meeting. Materials must be emailed to the assigned staff and Commission identified on the project's public hearing notice.

Rebuttal Submissions: Secondary Submissions in response to a Staff Recommendation Report and/or additional comments must be received electronically no later than 48 hours prior to the Commission meeting. For the Central, South Los Angeles and Harbor Area Planning Commissions, materials must be received no later than by 3:00 pm, Thursday of the week prior to the Commission meeting. Submissions, including exhibits, shall not exceed ten (10) pages and must be submitted electronically to the Commission identified on this announcement.

Day of Hearing Submissions: Submissions less than 48 hours prior to, and including the day of the hearing, must not exceed two (2) written pages, including exhibits, and must be submitted electronically to the staff and Commission identified on the project's public hearing notice. Photographs do not count toward the page limitation.

Non-Complying Submissions: Submissions that do not comply with these rules will be stamped "File Copy. Non-complying Submission." Non-complying submissions will be placed into the official case file, but they will not be delivered to or considered by the Commission and will not be included in the official administrative record for the item at issue.

Commission email addresses:

City Planning Commission: cpc@lacity.org

Central Los Angeles Area Planning Commission: apccentral@lacity.org

East Los Angeles Area Planning Commission: apceastla@lacity.org

Harbor Area Planning Commission: apcharbor@lacity.org

North Valley Area Planning Commission: apcnorthvalley@lacity.org

South Valley Area Planning Commission: apcsouthvalley@lacity.org

South Los Angeles Area Planning Commission: apcsouthla@lacity.org

West Los Angeles Area Planning Commission: apcwestla@lacity.org

Are appellants required to sit through the entire meeting when there are multiple items on the agenda?

The answer is no; however, the agenda items can be taken out of order. Therefore, it is in the interest of each appellant to attend the full meeting at the scheduled start time, until their item is taken up for consideration. Depending on how many items are on the agenda, and the agenda order, your item could be heard very quickly or you may have to wait through several items which could take a few hours. As a point of reference, commission meetings for Area Planning Commissions and City Planning Commission generally start at 4:30 PM and 8:30 AM, respectively. For additional details, please consult the "Events Calendar" on City Planning's website. For City Council and Council Committee meetings, please consult the Meeting Calendar page for City Council and Committees.

Will the appellant have an opportunity to speak during the hearing?

Following the presentation by the planner assigned to the appeal case, the appellant can present their case. After the appellant's presentation, the project applicant will be given an equal amount of time to provide a rebuttal to the appellant's presentation. There is often time for an additional rebuttal by the applicant or appellant. While there are exceptions to the rule, the appellate body may invite the appellant to respond to

questions. It is important to note that the appellate body will not engage in a back and forth conversation with either the applicant or appellant. This is done to be both fair and consistent in the amount of time allocated to each party.

What is the format and structure of a typical hearing for a project appeal?

Each appellate body follows a slightly different set of procedures when hearing project appeals. That said, there are a number of common features that apply regardless of whether the appellate body is the Area Planning Commission, Cultural Heritage Commission, City Planning Commission, or City Council. A formal public meeting structure is always maintained in order to ensure a fair and predictable process—one where all sides are heard, and the meeting is conducted in an orderly manner. In the case when a planning commission is the appellate body, there are additional steps, such as: a presentation from the Department, an opportunity for the appellant to testify, a forum for the applicant to offer their rebuttal, and time reserved for public testimony. This would take place leading up to any formal action on the part of the commissioners, as it relates to a project appeal.

To slow the spread of COVID-19, City Planning has implemented new procedures for public hearings and outreach meetings in order to practice proper physical distancing protocols. Until notified otherwise, commission meetings will be conducted virtually to allow applicants and the public to participate using a webcam or by telephone. For more information, consult the City Planning's website with detailed instructions.

How much time does the appellant have to present their argument?

The time allocated to the appellant for the purposes of their presentation varies. It is ultimately determined by the appellate body and communicated at the start of the meeting. More often than not, appellants are allocated five to 10 minutes to make their presentation. Project appeals that are heard by City Council follow slightly different procedures, which the assigned planner can explain.

Is there a need for the appellant to submit a PowerPoint presentation?

Appellants can prepare a PowerPoint presentation, in addition to making verbal remarks when it is their turn to speak. If a PowerPoint is being prepared, the appellant should

submit the document to City Planning no less than 72 hours in advance of the meeting. The assigned planner will coordinate the submission for the appellant.

What role does the planner assigned to this project play during the appeal process?

The role of the assigned planner is to ensure that an appellant is notified of the appeal hearing as an interested party, to provide them with a courtesy copy of the staff report if prepared, and to make sure that all parties are informed of the outcome or final decision of the appeal. The assigned planner will analyze the appeal points and prepare a staff recommendation report responding to each of the points raised by the appellant. At the hearing, the assigned planner will make a presentation to the decision maker. All information about the case is available for public view in the case file, and the Planner can assist in making an appointment to review it. The planner can also ensure that translation and special accommodations for individuals with disabilities can be provided at the public hearing, if requested.

What happens after the Appellate Body issues a formal decision, one way or another?

After the Commission takes a vote, a formal Letter of Determination is issued. If the decision is not further appealable, this concludes the appeal process. Under the LAMC and City Charter, only certain Commission-level appellate decisions are further appealable to City Council.

When can a CEQA appeal be filed?

Generally, a standalone CEQA appeal to the City Council may only be filed if a project's land use determination is not further appealable to the City Council (with some exceptions). If a determination made by an Area Planning Commission or City Planning Commission is further appealable to the City Council, the City Council will consider CEQA related appeal points made by an appellant when considering the entire appeal of the project.

When should appellants fill out the CEQA Appeal Form?

The CEQA Appeal form shall only be used if the Area Planning Commission or City Planning Commission issues a determination for a project that is not further appealable. In these situations, an individual may file an appeal of a project's CEQA clearance to the City Council. Forms and procedures for the appeal of CEQA documents can be found here listed under "CEQA Appeal Application."