

APPENDIX 1.0

Notice of Preparation and Responses

NOTICE OF PREPARATION

To: _____

From: City of Glendale
633 East Broadway, Room 103
Glendale, California 91206

Subject: Notice of Preparation of a Draft Environmental Impact Report Enclave Multifamily Residential Project

The City of Glendale will be the Lead Agency and will prepare an Environmental Impact Report (EIR) for this project. We need to know the views of your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project. Your agency will need to use the EIR prepared by our agency when considering your permit or other approvals for the project.

The project description, location, and the probable environmental effects are described in the attached materials. A copy of the Initial Study (is is not) attached.

Due to the time limits mandated by state law, your response must be sent at the earliest possible time but not later than 30 days after receipt of this notice.

Please send your response to Mr. Rathar Duong, Planner, City of Glendale, 633 East Broadway, Room 103, Glendale, California 91206. You may also email your response to: rduong@glendaleca.gov. Please provide the name of a contact person at your agency.

Date: _____

Signature: _____

Name

Title:

Telephone: (818) 548-2140

Reference: California Administrative Code, Title 14 (State *CEQA Guidelines*), Sections 15082(a), 15103, 15375.

ENCLAVE MULTIFAMILY RESIDENTIAL PROJECT

LEAD AGENCY

City of Glendale
Community Development Department, Planning Division
633 East Broadway, Room 103
Glendale, California 91206

PROJECT LOCATION AND LAND USES

Figure 1, Regional Location, illustrates the location of the project site in the City of Glendale, approximately 6 miles north of the City of Los Angeles Civic Center and 7 miles west of the City of Pasadena Civic Center. State Route (SR) 134 and SR 2 (the Ventura and Glendale Freeways) and Interstate 5 (the Golden State Freeway, I-5) provide regional access to the project site. As illustrated on **Figure 2, Project Location Map**, the project site consists of two continuous parcels of land located north of W. Elk Avenue between San Fernando Road and S. Pacific Avenue. The addresses are 525 W. Elk Avenue and 509 W. Elk Avenue.

The project site is bound on the south by W. Elk Avenue, on the west by the 5-story ICIS apartment complex, on the north by commercial uses including Hamlet's BMW service and GBH Headset Distributing, and on the east by a 2-story apartment building. The project site is approximately 0.72 acres (31,250 square feet) and is currently developed with a 1-story concrete block building occupied by a wholesale auto parts business and a parking lot. The project site is designated as Mixed Use on the City of Glendale General Plan Land Use Map and Commercial/Residential Mixed Use (SFMU) on the City's Zoning Map.

PROJECT DESCRIPTION

Development of a 5-story apartment building is proposed. The new building would include 71 residential units with parking provided in a two-level subterranean garage. **Figure 3, Proposed Site Plan**, illustrates the ground floor plan for the proposed project, and **Figure 4, Elevation**, shows the architectural design of the front of the building on W. Elk Street.

The proposed project would include one studio unit, 10 one-bedroom apartment units, and 60 two-bedroom apartment units. The first floor would include a lobby, recreation room, swimming pool, and 13 apartments. The second floor would include 15 apartments, the third floor would include 14 apartments, the fourth floor would include 14 apartments, and the fifth and mezzanine floors would include 15 apartments.

The proposed project would include a total of 162 parking spaces. Access to the subterranean garage would be provided from a driveway on W. Elk Avenue.

The proposed project would provide 6,138 square feet of common outdoor open space, a 761-square-foot indoor recreation room, and an average of 85 square feet of private open space per unit.

Demolition of the existing building and site improvements and construction of the new project would occur over approximately 18 months.

The SFMU Zone allows for buildings up to 75 feet and 6 stories in height and a maximum density of 100 dwelling units per acre. The project site is 0.72 acres in size and a maximum density of 72 dwelling units is allowed. The proposed project would have a maximum height of approximately 73 feet and a density of 71 dwelling units, consistent with SFMU requirements.

DISCRETIONARY APPROVAL ACTIONS

Discretionary approval from the City of Glendale would be necessary for implementation of the proposed project and may include, but not be limited to, the following:

- Stage II Design Review

PROBABLE ENVIRONMENTAL EFFECTS

Based on a preliminary review of the proposed project consistent with Section 15060 of the California Environmental Quality Act (CEQA) Guidelines, the Glendale Community Development Department has determined that an EIR should be prepared for this proposed project. In addition, consistent with Section 15082 of the State CEQA Guidelines, the Glendale Community Development Department has identified the following probable environmental effects of the project, which will be addressed in the EIR for this project:

- Aesthetics
- Greenhouse Gases
- Noise
- Recreation
- Air Quality
- Land Use/Planning
- Public Services
- Utilities/Service Systems

The City of Glendale Community Development Department has determined that there is not a likelihood of potentially significant effects related to the following environmental topics. The EIR will include information on why these effects were determined not to be significant and are not addressed in detail in the EIR:

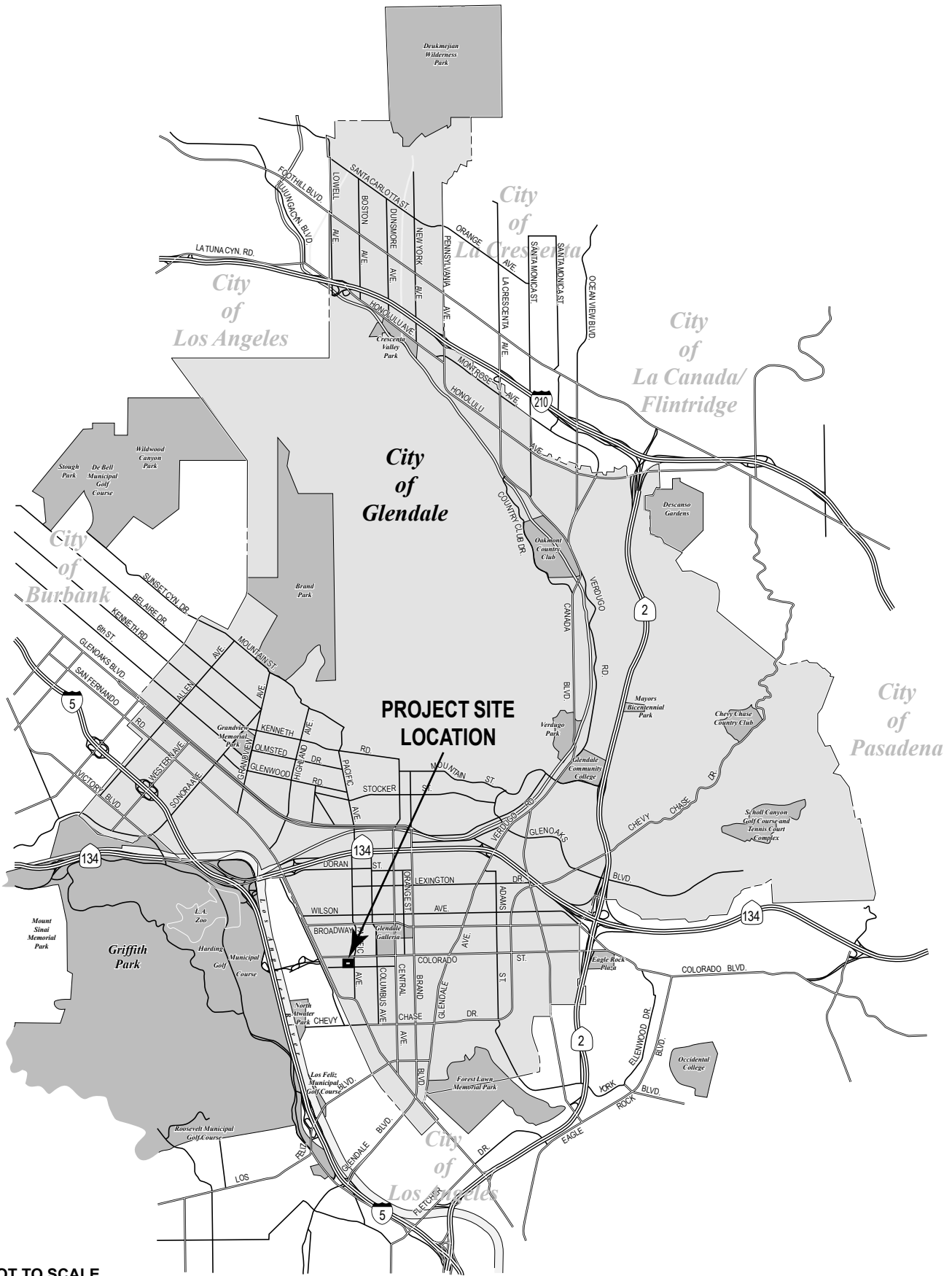
- Agriculture/Forestry Resources
- Cultural Resources
- Hazards and Hazardous Materials
- Mineral Resources
- Transportation/Traffic
- Biological Resources
- Geology/Soils
- Hydrology/Water Quality
- Population/Housing


The Glendale Community Development Department will consider comments received in response to this Notice of Preparation in determining the scope and content of the EIR for this project. Any comments provided should identify specific topics of environmental concern and your reason for suggesting the study of these topics in the EIR. Please provide your comments by **September 1, 2014**.

Please provide your comments in writing to:

City of Glendale
Community Development Department, Planning Division
633 East Broadway, Room 103
Glendale, California 91206
Attention: Rathar Duong, Planner

Thank you for your participation in the environmental review of this project.



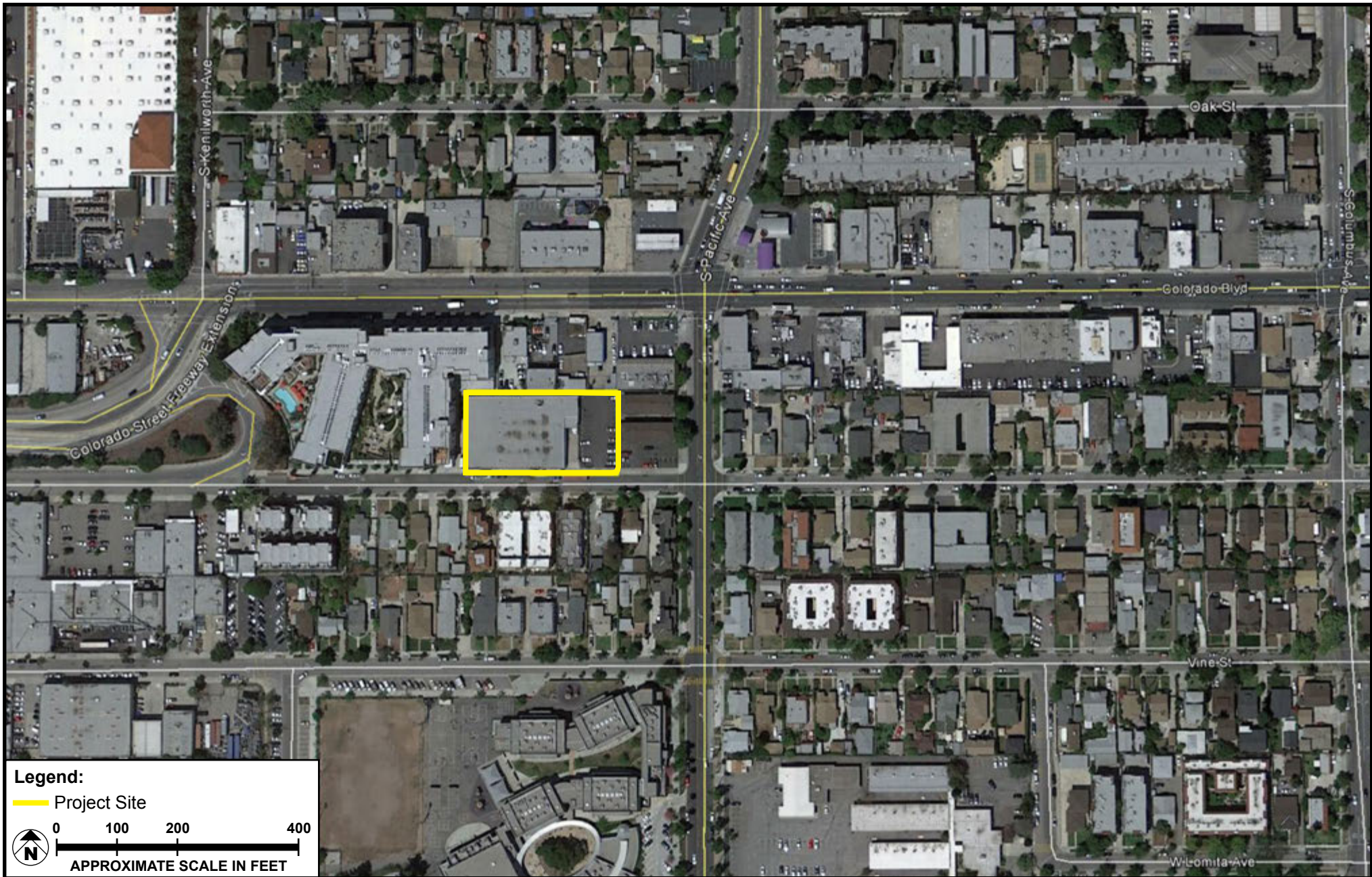
 NOT TO SCALE

SOURCE: Meridian Consultants, LLC - July 2014

FIGURE 1



Regional Location



SOURCE: Google Earth – 2014

FIGURE 2



Edmund G. Brown Jr.
Governor

STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit



Ken Alex
Director

Notice of Preparation

August 1, 2014

To: Reviewing Agencies
Re: Enclave Multifamily Residential Project
SCH# 2014081003

Attached for your review and comment is the Notice of Preparation (NOP) for the Enclave Multifamily Residential Project draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

Please direct your comments to:

**Rathar Duong
City of Glendale
633 E. Broadway
Glendale, CA 91206**

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0613.

Sincerely,

Scott Morgan
Director, State Clearinghouse

Attachments
cc: Lead Agency

**Document Details Report
State Clearinghouse Data Base**

SCH# 2014081003
Project Title Enclave Multifamily Residential Project
Lead Agency Glendale, City of

Type **NOP** Notice of Preparation
Description Development of a 5-story apartment building is proposed. The new building would include 71 residential units with 162 parking spaces provided in a two-level subterranean garage. The proposed project would include one studio unit, 10 one-bedroom apartment units, and a 60 two-bedroom apartment units. The first floor would include a lobby, recreation room, swimming pool, and 13 apartments. The second floor would include 15 apartments, the third and fourth floors would each include 14 apartments, and the fifth and mezzanine floors would include a combined total of 15 apartments.

Lead Agency Contact

Name Rathar Duong
Agency City of Glendale
Phone 818 937 8185 **Fax**
email
Address 633 E. Broadway
City Glendale **State** CA **Zip** 91206

Project Location

County Los Angeles
City Glendale
Region

Cross Streets

Lat / Long

Parcel No.

Township

Range

Section

Base

Proximity to:

Highways

Airports

Railways

Waterways

Schools

Land Use

Project Issues

Reviewing Agencies Resources Agency; Office of Historic Preservation; Department of Parks and Recreation; Resources, Recycling and Recovery; Department of Water Resources; Department of Fish and Wildlife, Region 5; Native American Heritage Commission; California Highway Patrol; Caltrans, District 7; Air Resources Board; Department of Toxic Substances Control; Regional Water Quality Control Board, Region 4

Date Received 08/01/2014 **Start of Review** 08/01/2014 **End of Review** 09/02/2014

NOP Distribution List

SL County: VCS Angeles

SCH# _____

Resources Agency

- Resources Agency
Nadell Gayou
- Dept. of Boating & Waterways
Nicole Wong
- California Coastal Commission
Elizabeth A. Fuchs
- Colorado River Board
Tanya Trujillo
- Dept. of Conservation
Elizabeth Carpenter
- California Energy Commission
Eric Knight
- Cal Fire
Dan Foster
- Central Valley Flood Protection Board
James Herota
- Office of Historic Preservation
Ron Parsons

- Fish & Wildlife Region 1E
Laurie Harnsberger
- Fish & Wildlife Region 2
Jeff Drongesen
- Fish & Wildlife Region 3
Charles Armor
- Fish & Wildlife Region 4
Julie Vance
- Fish & Wildlife Region 5
Leslie Newton-Reed
Habitat Conservation Program
- Fish & Wildlife Region 6
Tiffany Ellis
Habitat Conservation Program
- Fish & Wildlife Region 6 I/M
Heidi Sickler
Inyo/Mono, Habitat Conservation Program
- Dept. of Fish & Wildlife M
George Isaac
Marine Region

Other Departments

- Food & Agriculture
Sandra Schubert
Dept. of Food and Agriculture
- Depart. of General Services
Public School Construction
- Dept. of General Services
Anna Garbeff
Environmental Services Section
- Delta Stewardship Council
Kevan Samsam

Fish and Game

- Depart. of Fish & Wildlife
Scott Flint
Environmental Services Division
- Fish & Wildlife Region 1
Donald Koch

Independent Commissions, Boards

- Delta Protection Commission
Michael Machado
- OES (Office of Emergency Services)
Dennis Castrillo

- Native American Heritage Comm.
Debbie Treadway
- Public Utilities Commission
Leo Wong
- Santa Monica Bay Restoration
Guangyu Wang
- State Lands Commission
Jennifer Deleong
- Tahoe Regional Planning Agency (TRPA)
Cherry Jacques

Business, Trans & Housing

- Caltrans - Division of Aeronautics
Philip Crimmins
- Caltrans - Planning
Terri Pencovic
- California Highway Patrol
Suzann Ikeuchi
Office of Special Projects
- Housing & Community Development
CEQA Coordinator
Housing Policy Division

Dept. of Transportation

- Caltrans, District 1
Rex Jackman
- Caltrans, District 2
Marcelino Gonzalez
- Caltrans, District 3
Eric Federicks - South
Susan Zanchi - North
- Caltrans, District 4
Erik Alm
- Caltrans, District 5
David Murray
- Caltrans, District 6
Michael Navarro
- Caltrans, District 7
Dianna Watson

- Caltrans, District 8
Dan Kopulsky
- Caltrans, District 9
Gayle Rosander
- Caltrans, District 10
Tom Dumas
- Caltrans, District 11
Jacob Armstrong
- Caltrans, District 12
Maureen El Harake

Cal EPA

Air Resources Board

- All Projects
CEQA Coordinator
- Transportation Projects
Nesamani Kalandiyur
- Industrial Projects
Mike Tollstrup
- State Water Resources Control Board
Regional Programs Unit
Division of Financial Assistance
- State Water Resources Control Board
Jeffery Werth
Division of Drinking Water
- State Water Resources Control Board
Student Intern, 401 Water Quality Certification Unit
Division of Water Quality
- State Water Resources Control Board
Phil Crader
Division of Water Rights
- Dept. of Toxic Substances Control
CEQA Tracking Center
- Department of Pesticide Regulation
CEQA Coordinator

Regional Water Quality Control Board (RWQCB)

- RWQCB 1
Cathleen Hudson
North Coast Region (1)
- RWQCB 2
Environmental Document Coordinator
San Francisco Bay Region (2)
- RWQCB 3
Central Coast Region (3)
- RWQCB 4
Teresa Rodgers
Los Angeles Region (4)
- RWQCB 5S
Central Valley Region (5)
- RWQCB 5F
Central Valley Region (5)
Fresno Branch Office
- RWQCB 5R
Central Valley Region (5)
Redding Branch Office
- RWQCB 6
Lahontan Region (6)
- RWQCB 6V
Lahontan Region (6)
Victorville Branch Office
- RWQCB 7
Colorado River Basin Region (7)
- RWQCB 8
Santa Ana Region (8)
- RWQCB 9
San Diego Region (9)
- Other _____
- _____
- _____
- Conservancy



South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

August 12, 2014

Mr. Rather Duong, Planner
City of Glendale
633 E. Broadway, Room 103
Glendale, CA 91206

**Notice of Preparation of a CEQA Document for the
Enclave Multifamily Residential Project**

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The SCAQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the proposed project that should be included in the draft CEQA document. Please send the SCAQMD a copy of the Draft EIR upon its completion. Note that copies of the Draft EIR that are submitted to the State Clearinghouse are not forwarded to the SCAQMD. Please forward a copy of the Draft EIR directly to SCAQMD at the address in our letterhead. **In addition, please send with the draft EIR all appendices or technical documents related to the air quality and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files. These include original emission calculation spreadsheets and modeling files (not Adobe PDF files). Without all files and supporting air quality documentation, the SCAQMD will be unable to complete its review of the air quality analysis in a timely manner. Any delays in providing all supporting air quality documentation will require additional time for review beyond the end of the comment period.**

Air Quality Analysis

The SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from the SCAQMD's Subscription Services Department by calling (909) 396-3720. More recent guidance developed since this Handbook was published is also available on SCAQMD's website here: [http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-\(1993\)](http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993)). SCAQMD staff also recommends that the lead agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, that is, sources that generate or attract vehicular trips should be included in the analysis.

The SCAQMD has also developed both regional and localized significance thresholds. The SCAQMD staff requests that the lead agency quantify criteria pollutant emissions and compare the results to the recommended regional significance thresholds found here: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>. In addition to analyzing regional air quality impacts, the SCAQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LST's can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the proposed project, it is

recommended that the lead agency perform a localized analysis by either using the LSTs developed by the SCAQMD or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>.

In the event that the proposed project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the lead agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis>. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Perspective*, which can be found at the following internet address: <http://www.arb.ca.gov/ch/handbook.pdf>. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process.

Mitigation Measures

In the event that the project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize or eliminate these impacts. Pursuant to state CEQA Guidelines §15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are available to assist the Lead Agency with identifying possible mitigation measures for the project, including:

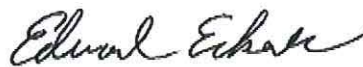
- Chapter 11 of the SCAQMD *CEQA Air Quality Handbook*
- SCAQMD's CEQA web pages at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies>.
- CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* available here: <http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>.
- SCAQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions
- Other measures to reduce air quality impacts from land use projects can be found in the SCAQMD's Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. This document can be found at the following internet address: <http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf?sfvrsn=4>.

Data Sources

SCAQMD rules and relevant air quality reports and data are available by calling the SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available via the SCAQMD's webpage (<http://www.aqmd.gov>).

The SCAQMD staff is available to work with the Lead Agency to ensure that project emissions are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at Eeckerle@aqmd.gov or call me at (909) 396-3128.

Sincerely,



Ed Eckerle
Program Supervisor
Planning, Rule Development & Area Sources



August 8, 2014 13 PM 2:39

PLANNING DIVISION

Rather Duong
City of Glendale
633 E. Broadway
Glendale, CA 91206

RE: SCH# 2014081003 Enclave Multifamily Residential Project.

Dear Mr. Duong:

The Native American Heritage Commission (NAHC) has reviewed the Notice of Preparation (NOP) referenced above. The California Environmental Quality Act (CEQA) states that any project that causes a substantial adverse change in the significance of an historical resource, which includes archeological resources, is a significant effect requiring the preparation of an EIR (CEQA Guidelines 15064(b)). To comply with this provision the lead agency is required to assess whether the project will have an adverse impact on historical resources within the area of project effect (APE), and if so to mitigate that effect. To adequately assess and mitigate project-related impacts to archaeological resources, the NAHC recommends the following actions:

- ✓ Contact the appropriate regional archaeological Information Center for a record search. The record search will determine:
 - If a part or all of the area of project effect (APE) has been previously surveyed for cultural resources.
 - If any known cultural resources have already been recorded on or adjacent to the APE.
 - If the probability is low, moderate, or high that cultural resources are located in the APE.
 - If a survey is required to determine whether previously unrecorded cultural resources are present.
- ✓ If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure.
 - The final written report should be submitted within 3 months after work has been completed to the appropriate regional archaeological Information Center.
- ✓ Contact the Native American Heritage Commission for:
 - A Sacred Lands File Check. **USGS 7.5-minute quadrangle name, township, range, and section required**
 - A list of appropriate Native American contacts for consultation concerning the project site and to assist in the mitigation measures. **Native American Contacts List attached**
- ✓ Lack of surface evidence of archeological resources does not preclude their subsurface existence.
 - Lead agencies should include in their mitigation plan provisions for the identification and evaluation of accidentally discovered archeological resources, per California Environmental Quality Act (CEQA) Guidelines §15064.5(f). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American, with knowledge in cultural resources, should monitor all ground-disturbing activities.
 - Lead agencies should include in their mitigation plan provisions for the disposition of recovered cultural items that are not burial associated, which are addressed in Public Resources Code (PRC) §5097.98, in consultation with culturally affiliated Native Americans.
 - Lead agencies should include provisions for discovery of Native American human remains in their mitigation plan. Health and Safety Code §7050.5, PRC §5097.98, and CEQA Guidelines §15064.5(e), address the process to be followed in the event of an accidental discovery of any human remains and associated grave goods in a location other than a dedicated cemetery.

Sincerely,

A handwritten signature in blue ink that reads "Gayle Totton".

Gayle Totton
Associate Government Program Analyst

CC: State Clearinghouse

**Native American Contacts
Los Angeles County
August 8, 2014**

Tongva Ancestral Territorial Tribal Nation
John Tommy Rosas, Tribal Admin.

tattnlaw@gmail.com
(310) 570-6567

Gabrielino Tongva

Gabrielino Band of Mission Indians
Andrew Salas, Chairperson

P.O. Box 393
Covina, CA 91723
gabrielenoindians@yahoo.com
(626) 926-4131

Gabrielino

Gabrielino/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson

P.O. Box 693
San Gabriel, CA 91778
GTTribalcouncil@aol.com
(626) 483-3564 Cell
(626) 286-1262 Fax

Gabrielino Tongva

Gabrielino-Tongva Tribe
Conrad Acuna,

P.O. Box 180
Bonsall, CA 92003
(760) 636-0854 Fax

Gabrielino

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Tribal Chair/Cultural Resources

P.O. Box 490
Bellflower, CA 90707
gtongva@verizon.net
(562) 761-6417 Voice/Fax

Gabrielino Tongva

Gabrielino /Tongva Nation

Sam Dunlap, Cultural Resources Director
P.O. Box 86908
Los Angeles, CA 90086
samdunlap@earthlink.net
(909) 262-9351

Gabrielino Tongva

Gabrielino-Tongva Tribe
Bernie Acuna, Co-Chairperson

P.O. Box 180
Bonsall, CA 92003
bacuna1@gabrielinotribe.org
(619) 294-6660 Office
(310) 428-5690 Cell
(760) 636-0854 Fax

Gabrielino

Gabrielino-Tongva Tribe
Linda Candelaria, Co-Chairperson

P.O. Box 180
Bonsall, CA 92003
palmsprings9@yahoo.com
(626) 676-1184 Cell
(760) 636-0854 Fax

Gabrielino

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Enclave Multifamily Residential Project SCH# 2014081003, in the city of Glendale, in Los Angeles County, California



Metro

Los Angeles County
Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952

213.922.2000 Tel
metro.net

August 19, 2014

Rathar Duong
Planner
City of Glendale
633 East Broadway, Room 103
Glendale, CA 91206

RE: Enclave Multifamily Residential Project

Dear Mr. Duong,

Thank you for the opportunity to comment on the proposed Enclave Multifamily Residential Project. This letter conveys recommendations from the Los Angeles County Metropolitan Transportation Authority (LACMTA) concerning issues that are germane to our agency's statutory responsibility in relation to our facilities and services that may be affected by the proposed project.

A Transportation Impact Analysis (TIA), with roadway and transit components, is required under the State of California Congestion Management Program (CMP) statute. The CMP TIA Guidelines are published in the "2010 Congestion Management Program for Los Angeles County", Appendix D (attached). The geographic area examined in the TIA must include the following, at a minimum:

1. All CMP arterial monitoring intersections, including monitored freeway on/off-ramp intersections, where the proposed project will add 50 or more trips during either the a.m. or p.m. weekday peak hour (of adjacent street traffic).
2. If CMP arterial segments are being analyzed rather than intersections, the study area must include all segments where the proposed project will add 50 or more peak hour trips (total of both directions). Within the study area, the TIA must analyze at least one segment between monitored CMP intersections.
3. Mainline freeway-monitoring locations where the project will add 150 or more trips, in either direction, during either the a.m. or p.m. weekday peak hour.
4. Caltrans must also be consulted through the NOP process to identify other specific locations to be analyzed on the state highway system.

The CMP TIA requirement also contains two separate impact studies covering roadways and transit, as outlined in Sections D.8.1 – D.9.4. If the TIA identifies no facilities for study based on the criteria above, no further traffic analysis is required. However, projects must still consider transit impacts. For all CMP TIA requirements please see the attached guidelines.

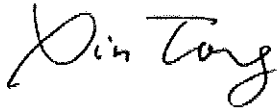
If you have any questions regarding this response, please contact Xin Tong at 213-922-8804 or by email at DevReview@metro.net. LACMTA looks forward to reviewing the Draft EIR. Please send it to the following address:

2014 AUG 21 10:00 AM
LACMTA

Enclave Multifamily Residential Project- LACMTA COMMENTS
August 25, 2014
Page 2

LACMTA Development Review
One Gateway Plaza MS 99-18-3
Los Angeles, CA 90012-2952

Sincerely,

A handwritten signature in black ink that reads "Xin Tong". The signature is written in a cursive, flowing style.

Xin Tong
Development Review Coordinator, Countywide Planning

Attachment: CMP Appendix D: Guidelines for CMP Transportation Impact Analysis

GUIDELINES FOR CMP TRANSPORTATION IMPACT ANALYSIS

Important Notice to User: This section provides detailed travel statistics for the Los Angeles area which will be updated on an ongoing basis. Updates will be distributed to all local jurisdictions when available. In order to ensure that impact analyses reflect the best available information, lead agencies may also contact MTA at the time of study initiation. Please contact MTA staff to request the most recent release of "Baseline Travel Data for CMP TIAs."

D.1 OBJECTIVE OF GUIDELINES

The following guidelines are intended to assist local agencies in evaluating impacts of land use decisions on the Congestion Management Program (CMP) system, through preparation of a regional transportation impact analysis (TIA). The following are the basic objectives of these guidelines:

- Promote consistency in the studies conducted by different jurisdictions, while maintaining flexibility for the variety of project types which could be affected by these guidelines.
- Establish procedures which can be implemented within existing project review processes and without ongoing review by MTA.
- Provide guidelines which can be implemented immediately, with the full intention of subsequent review and possible revision.

These guidelines are based on specific requirements of the Congestion Management Program, and travel data sources available specifically for Los Angeles County. References are listed in Section D.10 which provide additional information on possible methodologies and available resources for conducting TIAs.

D.2 GENERAL PROVISIONS

Exhibit D-7 provides the model resolution that local jurisdictions adopted containing CMP TIA procedures in 1993. TIA requirements should be fulfilled within the existing environmental review process, extending local traffic impact studies to include impacts to the regional system. In order to monitor activities affected by these requirements, Notices of Preparation (NOPs) must be submitted to MTA as a responsible agency. Formal MTA approval of individual TIAs is not required.

The following sections describe CMP TIA requirements in detail. In general, the competing objectives of consistency & flexibility have been addressed by specifying standard, or minimum, requirements and requiring documentation when a TIA varies from these standards.

D.3 PROJECTS SUBJECT TO ANALYSIS

In general a CMP TIA is required for all projects required to prepare an Environmental Impact Report (EIR) based on local determination. A TIA is not required if the lead agency for the EIR finds that traffic is not a significant issue, and does not require local or regional traffic impact analysis in the EIR. Please refer to Chapter 5 for more detailed information.

CMP TIA guidelines, particularly intersection analyses, are largely geared toward analysis of projects where land use types and design details are known. Where likely land uses are not defined (such as where project descriptions are limited to zoning designation and parcel size with no information on access location), the level of detail in the TIA may be adjusted accordingly. This may apply, for example, to some redevelopment areas and citywide general plans, or community level specific plans. In such cases, where project definition is insufficient for meaningful intersection level of service analysis, CMP arterial segment analysis may substitute for intersection analysis.

D.4 STUDY AREA

The geographic area examined in the TIA must include the following, at a minimum:

- All CMP arterial monitoring intersections, including monitored freeway on- or off-ramp intersections, where the proposed project will add 50 or more trips during either the AM or PM weekday peak hours (of adjacent street traffic).
- If CMP arterial segments are being analyzed rather than intersections (see Section D.3), the study area must include all segments where the proposed project will add 50 or more peak hour trips (total of both directions). Within the study area, the TIA must analyze at least one segment between monitored CMP intersections.
- Mainline freeway monitoring locations where the project will add 150 or more trips, in either direction, during either the AM or PM weekday peak hours.
- Caltrans must also be consulted through the Notice of Preparation (NOP) process to identify other specific locations to be analyzed on the state highway system.

If the TIA identifies no facilities for study based on these criteria, no further traffic analysis is required. However, projects must still consider transit impacts (Section D.8.4).

D.5 BACKGROUND TRAFFIC CONDITIONS

The following sections describe the procedures for documenting and estimating background, or non-project related traffic conditions. Note that for the purpose of a TIA, these background estimates must include traffic from all sources without regard to the exemptions specified in CMP statute (e.g., traffic generated by the provision of low and very low income housing, or trips originating outside Los Angeles County. Refer to Chapter 5, Section 5.2.3 for a complete list of exempted projects).

D.5.1 Existing Traffic Conditions. Existing traffic volumes and levels of service (LOS) on the CMP highway system within the study area must be documented. Traffic counts must

(These RSAs are illustrated in Exhibit D-4.) For locations where it is difficult to determine the project site RSA, census tract/RSA correspondence tables are available from MTA.

Exhibit D-5 describes a general approach to applying the preceding factors. Project trip distribution must be consistent with these trip distribution and purpose factors; the basis for variation must be documented.

Local agency travel demand models disaggregated from the SCAG regional model are presumed to conform to this requirement, as long as the trip distribution functions are consistent with the regional distribution patterns. For retail commercial developments, alternative trip distribution factors may be appropriate based on the market area for the specific planned use. Such market area analysis must clearly identify the basis for the trip distribution pattern expected.

D.8 IMPACT ANALYSIS

CMP Transportation Impact Analyses contain two separate impact studies covering roadways and transit. Section Nos. D.8.1-D.8.3 cover required roadway analysis while Section No. D.8.4 covers the required transit impact analysis. Section Nos. D.9.1-D.9.4 define the requirement for discussion and evaluation of alternative mitigation measures.

D.8.1 Intersection Level of Service Analysis. The LA County CMP recognizes that individual jurisdictions have wide ranging experience with LOS analysis, reflecting the variety of community characteristics, traffic controls and street standards throughout the county. As a result, the CMP acknowledges the possibility that no single set of assumptions should be mandated for all TIAs within the county.

However, in order to promote consistency in the TIAs prepared by different jurisdictions, CMP TIAs must conduct intersection LOS calculations using either of the following methods:

- The Intersection Capacity Utilization (ICU) method as specified for CMP highway monitoring (see Appendix A); or
- The Critical Movement Analysis (CMA) / Circular 212 method.

Variation from the standard assumptions under either of these methods for circumstances at particular intersections must be fully documented.

TIAs using the 1985 or 1994 Highway Capacity Manual (HCM) operational analysis must provide converted volume-to-capacity based LOS values, as specified for CMP highway monitoring in Appendix A.

D.8.2 Arterial Segment Analysis. For TIAs involving arterial segment analysis, volume-to-capacity ratios must be calculated for each segment and LOS values assigned using the V/C-LOS equivalency specified for arterial intersections. A capacity of 800 vehicles per hour per through traffic lane must be used, unless localized conditions necessitate alternative values to approximate current intersection congestion levels.

be less than one year old at the time the study is initiated, and collected in accordance with CMP highway monitoring requirements (see Appendix A). Section D.8.1 describes TIA LOS calculation requirements in greater detail. Freeway traffic volume and LOS data provided by Caltrans is also provided in Appendix A.

D.5.2 Selection of Horizon Year and Background Traffic Growth. Horizon year(s) selection is left to the lead agency, based on individual characteristics of the project being analyzed. In general, the horizon year should reflect a realistic estimate of the project completion date. For large developments phased over several years, review of intermediate milestones prior to buildout should also be considered.

At a minimum, horizon year background traffic growth estimates must use the generalized growth factors shown in Exhibit D-1. These growth factors are based on regional modeling efforts, and estimate the general effect of cumulative development and other socioeconomic changes on traffic throughout the region. Beyond this minimum, selection among the various methodologies available to estimate horizon year background traffic in greater detail is left to the lead agency. Suggested approaches include consultation with the jurisdiction in which the intersection under study is located, in order to obtain more detailed traffic estimates based on ongoing development in the vicinity.

D.6 PROPOSED PROJECT TRAFFIC GENERATION

Traffic generation estimates must conform to the procedures of the current edition of Trip Generation, by the Institute of Transportation Engineers (ITE). If an alternative methodology is used, the basis for this methodology must be fully documented.

Increases in site traffic generation may be reduced for existing land uses to be removed, if the existing use was operating during the year the traffic counts were collected. Current traffic generation should be substantiated by actual driveway counts; however, if infeasible, traffic may be estimated based on a methodology consistent with that used for the proposed use.

Regional transportation impact analysis also requires consideration of trip lengths. Total site traffic generation must therefore be divided into work and non-work-related trip purposes in order to reflect observed trip length differences. Exhibit D-2 provides factors which indicate trip purpose breakdowns for various land use types.

For lead agencies who also participate in CMP highway monitoring, it is recommended that any traffic counts on CMP facilities needed to prepare the TIA should be done in the manner outlined in Chapter 2 and Appendix A. If the TIA traffic counts are taken within one year of the deadline for submittal of CMP highway monitoring data, the local jurisdiction would save the cost of having to conduct the traffic counts twice.

D.7 TRIP DISTRIBUTION

For trip distribution by direct/manual assignment, generalized trip distribution factors are provided in Exhibit D-3, based on regional modeling efforts. These factors indicate Regional Statistical Area (RSA)-level tripmaking for work and non-work trip purposes.

D.8.3 Freeway Segment (Mainline) Analysis. For the purpose of CMP TIAs, a simplified analysis of freeway impacts is required. This analysis consists of a demand-to-capacity calculation for the affected segments, and is indicated in Exhibit D-6.

D.8.4 Transit Impact Review. CMP transit analysis requirements are met by completing and incorporating into an EIR the following transit impact analysis:

- Evidence that affected transit operators received the Notice of Preparation.
- A summary of existing transit services in the project area. Include local fixed-route services within a ¼ mile radius of the project; express bus routes within a 2 mile radius of the project, and; rail service within a 2 mile radius of the project.
- Information on trip generation and mode assignment for both AM and PM peak hour periods as well as for daily periods. Trips assigned to transit will also need to be calculated for the same peak hour and daily periods. Peak hours are defined as 7:30-8:30 AM and 4:30-5:30 PM. Both “peak hour” and “daily” refer to average weekdays, unless special seasonal variations are expected. If expected, seasonal variations should be described.
- Documentation of the assumption and analyses that were used to determine the number and percent of trips assigned to transit. Trips assigned to transit may be calculated along the following guidelines:
 - Multiply the total trips generated by 1.4 to convert vehicle trips to person trips;
 - For each time period, multiply the result by one of the following factors:
 - 3.5% of Total Person Trips Generated for most cases, except:
 - 10% primarily Residential within 1/4 mile of a CMP transit center
 - 15% primarily Commercial within 1/4 mile of a CMP transit center
 - 7% primarily Residential within 1/4 mile of a CMP multi-modal transportation center
 - 9% primarily Commercial within 1/4 mile of a CMP multi-modal transportation center
 - 5% primarily Residential within 1/4 mile of a CMP transit corridor
 - 7% primarily Commercial within 1/4 mile of a CMP transit corridor
 - 0% if no fixed route transit services operate within one mile of the project

To determine whether a project is primarily residential or commercial in nature, please refer to the CMP land use categories listed and defined in Appendix E, *Guidelines for New Development Activity Tracking and Self Certification*. For projects that are only partially within the above one-quarter mile radius, the base rate (3.5% of total trips generated) should be applied to all of the project buildings that touch the radius perimeter.

- Information on facilities and/or programs that will be incorporated in the development plan that will encourage public transit use. Include not only the jurisdiction’s TDM Ordinance measures, but other project specific measures.

- Analysis of expected project impacts on current and future transit services and proposed project mitigation measures, and;
- Selection of final mitigation measures remains at the discretion of the local jurisdiction/lead agency. Once a mitigation program is selected, the jurisdiction self-monitors implementation through the existing mitigation monitoring requirements of CEQA.

D.9 IDENTIFICATION AND EVALUATION OF MITIGATION

D.9.1 Criteria for Determining a Significant Impact. For purposes of the CMP, a significant impact occurs when the proposed project increases traffic demand on a CMP facility by 2% of capacity ($V/C \geq 0.02$), causing LOS F ($V/C > 1.00$); if the facility is already at LOS F, a significant impact occurs when the proposed project increases traffic demand on a CMP facility by 2% of capacity ($V/C \geq 0.02$). The lead agency may apply a more stringent criteria if desired.

D.9.2 Identification of Mitigation. Once the project has been determined to cause a significant impact, the lead agency must investigate measures which will mitigate the impact of the project. Mitigation measures proposed must clearly indicate the following:

- Cost estimates, indicating the fair share costs to mitigate the impact of the proposed project. If the improvement from a proposed mitigation measure will exceed the impact of the project, the TIA must indicate the proportion of total mitigation costs which is attributable to the project. This fulfills the statutory requirement to exclude the costs of mitigating inter-regional trips.
- Implementation responsibilities. Where the agency responsible for implementing mitigation is not the lead agency, the TIA must document consultation with the implementing agency regarding project impacts, mitigation feasibility and responsibility.

Final selection of mitigation measures remains at the discretion of the lead agency. The TIA must, however, provide a summary of impacts and mitigation measures. Once a mitigation program is selected, the jurisdiction self-monitors implementation through the mitigation monitoring requirements contained in CEQA.

D.9.3 Project Contribution to Planned Regional Improvements. If the TIA concludes that project impacts will be mitigated by anticipated regional transportation improvements, such as rail transit or high occupancy vehicle facilities, the TIA must document:

- Any project contribution to the improvement, and
- The means by which trips generated at the site will access the regional facility.

D.9.4 Transportation Demand Management (TDM). If the TIA concludes or assumes that project impacts will be reduced through the implementation of TDM measures, the TIA must document specific actions to be implemented by the project which substantiate these conclusions.

D.10 REFERENCES

1. *Traffic Access and Impact Studies for Site Development: A Recommended Practice*, Institute of Transportation Engineers, 1991.
2. *Trip Generation*, 5th Edition, Institute of Transportation Engineers, 1991.
3. *Travel Forecast Summary: 1987 Base Model - Los Angeles Regional Transportation Study (LARTS)*, California State Department of Transportation (Caltrans), February 1990.
4. *Traffic Study Guidelines*, City of Los Angeles Department of Transportation (LADOT), July 1991.
5. *Traffic/Access Guidelines*, County of Los Angeles Department of Public Works.
6. *Building Better Communities*, Sourcebook, Coordinating Land Use and Transit Planning, American Public Transit Association.
7. *Design Guidelines for Bus Facilities*, Orange County Transit District, 2nd Edition, November 1987.
8. *Coordination of Transit and Project Development*, Orange County Transit District, 1988.
9. *Encouraging Public Transportation Through Effective Land Use Actions*, Municipality of Metropolitan Seattle, May 1987.

**Enclave Multifamily Residential Project
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	162.00	Space	0.00	0.00	0
Other Asphalt Surfaces	36.00	1000sqft	0.00	36,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	71.00	Dwelling Unit	0.72	99,539.00	185

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage, floor area per Conceptual Plan. Population is 2.6 res per unit

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	NumDays	2.00	120.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	6.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.72
tblGrading	MaterialExported	0.00	28,500.00
tblLandUse	LandUseSquareFeet	64,800.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	71,000.00	99,539.00
tblLandUse	LotAcreage	1.46	0.00
tblLandUse	LotAcreage	0.83	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	1.87	0.72
tblLandUse	Population	203.00	185.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	32.66	25.16
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tblTripsAndVMT	HaulingTripLength	20.00	24.00
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tblTripsAndVMT	HaulingTripLength	20.00	24.00
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tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
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tblVehicleTrips	CC_TTP	64.10	0.00
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tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
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tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00

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tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction
Unmitigated Construction

Year	tons/yr										MT/yr					
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBIO- CO2	Total CO2	CH4	N2O	CO2e	
2015	1.1556	1.5921	1.0430	1.9900e-003	0.0914	0.0870	0.1784	0.0360	0.0805	0.1165	0.0000	184.3701	184.3701	0.0226	0.0000	184.8438
2016	0.4208	2.4047	2.2300	3.6500e-003	0.1446	0.1544	0.2990	0.0510	0.1483	0.1993	0.0000	304.2665	304.2665	0.0496	0.0000	305.3071
2017	0.4764	0.0652	0.0733	1.3000e-004	3.5000e-003	5.0600e-003	8.5500e-003	9.3000e-004	5.0600e-003	5.9800e-003	0.0000	10.6876	10.6876	9.6000e-004	0.0000	10.7078
Total	1.0527	4.0620	3.3464	5.7700e-003	0.2395	0.2465	0.4860	0.0880	0.2338	0.3218	0.0000	499.3242	499.3242	0.0731	0.0000	500.8586

Mitigated Construction

Year	tons/yr										MT/yr					
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBIO- CO2	Total CO2	CH4	N2O	CO2e	
2015	0.0514	0.9097	0.9480	1.9900e-003	0.0576	0.0337	0.0913	0.0200	0.0331	0.0531	0.0000	184.3700	184.3700	0.0226	0.0000	184.8437
2016	0.1274	1.5186	2.0612	3.6500e-003	0.1168	0.0834	0.2002	0.0358	0.0831	0.1189	0.0000	304.2663	304.2663	0.0496	0.0000	305.3069
2017	0.4685	0.0412	0.0723	1.3000e-004	3.5000e-003	2.7900e-003	6.2900e-003	9.3000e-004	2.7900e-003	3.7200e-003	0.0000	10.6876	10.6876	9.6000e-004	0.0000	10.7078
Total	0.6472	2.4695	3.0815	5.7700e-003	0.1779	0.1199	0.2978	0.0567	0.1190	0.1757	0.0000	499.3239	499.3239	0.0731	0.0000	500.8583

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	38.52	39.20	7.91	0.00	25.72	51.36	38.72	35.52	49.10	45.39	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	tons/yr										MT/yr					
Area	0.5640	8.6500e-003	0.7422	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.2010	1.2010	1.2100e-003	0.0000	1.2265
Energy	2.8300e-003	0.0242	0.0106	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	160.5884	160.5884	3.9800e-003	1.2300e-003	161.0523
Mobile	0.3100	0.9880	3.7251	9.1900e-003	0.6115	0.0137	0.6252	0.1638	0.0126	0.1764	0.0000	712.7079	712.7079	0.0291	0.0000	713.3183
Waste						0.0000	0.0000		0.0000	0.0000	5.1073	0.0000	5.1073	0.3018	0.0000	11.4457
Water						0.0000	0.0000		0.0000	0.0000	1.2917	26.8211	28.1128	0.1334	3.2800e-003	31.9294
Total	0.8768	1.0209	4.4779	9.3800e-003	0.6115	0.0197	0.6312	0.1638	0.0186	0.1824	6.3990	901.3183	907.7173	0.4695	4.5100e-003	918.9722

**2.2 Overall Operational
Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	0.5640	8.6500e-003	0.7422	4.0000e-005	4.0300e-003	4.0300e-003	4.0300e-003	4.0300e-003	4.0300e-003	4.0300e-003	0.0000	1.2010	1.2010	1.2100e-003	0.0000	1.2265
Energy	2.5000e-003	0.0214	9.3700e-003	1.4000e-004	1.7300e-003	1.7300e-003	1.7300e-003	1.7300e-003	1.7300e-003	1.7300e-003	0.0000	155.7636	155.7636	3.8800e-003	1.1600e-003	156.2043
Mobile	0.2903	0.8375	3.2412	7.6200e-003	0.5157	0.1351	0.1456	0.0105	0.0105	0.1456	0.0000	590.8054	590.8054	0.0244	0.0000	591.3170
Waste					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5536	0.0000	2.5536	0.1509	0.0000	5.7228
Water					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0334	20.7121	21.7455	0.1067	2.6200e-003	24.7971
Total	0.8567	0.8676	3.9927	7.8000e-003	0.5043	0.0172	0.5215	0.1351	0.0163	0.1513	3.5870	768.4821	772.0691	0.2870	3.7800e-003	779.2678

3.0 Construction Detail

Construction Phase

Percent Reduction	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
2.29	15.01	10.83	16.84	17.53	12.67	17.38	17.53	12.45	17.02	43.94	14.74	14.94	38.86	16.19	15.20	

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	12/14/2016	5	230	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	3/22/2017	5	60	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 201,566; Residential Outdoor: 67,189; Non-Residential Indoor: 11,942; Non-Residential Outdoor: 3,981 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,818.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					9.5000e-003	0.0000	9.5000e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0177	0.1493	0.1102	1.5000e-004		0.0109	0.0109		0.0105	0.0105	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	0.0177	0.1493	0.1102	1.5000e-004	9.5000e-003	0.0109	0.0204	1.4400e-003	0.0105	0.0119	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734

3.2 Demolition - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	1.0000e-004	1.0000e-005	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					3.7000e-003		0.0000	5.6000e-004		5.6000e-004	0.0000	0.0000	0.0000		0.0000	0.0000
Off-Road	3.3300e-003	0.0748	0.0995	1.5000e-004			5.0300e-003	5.0300e-003		5.0300e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	3.3300e-003	0.0748	0.0995	1.5000e-004	3.7000e-003		5.0300e-003	5.6000e-004		5.5900e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
tons/yr											MT/yr					

3.2 Demolition - 2015
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130
tons/yr											MT/yr					

3.3 Site Preparation - 2015
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-003	0.0322	0.0167	2.0000e-005		1.9800e-003	1.9800e-003	1.8200e-003	1.8200e-003	1.8200e-003	0.0000	2.0996	2.0996	6.0000e-004	0.0000	2.0222
Total	3.2000e-003	0.0322	0.0167	2.0000e-005	3.8000e-004	1.9800e-003	2.3600e-003	4.0000e-005	1.8200e-003	1.8600e-003	0.0000	2.0996	2.0996	6.0000e-004	0.0000	2.0222
tons/yr											MT/yr					

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	
Worker	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323	
Total	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323	
tons/yr												MT/yr						

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust	1.5000e-004	0.0000	0.0000	0.0000	0.0000	1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	5.1000e-004	0.0105	0.0157	2.0000e-005	0.0000	5.9000e-004	5.9000e-004	7.4000e-004	5.9000e-004	5.9000e-004	6.1000e-004	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222	
Total	5.1000e-004	0.0105	0.0157	2.0000e-005	0.0000	1.5000e-004	0.0000	7.4000e-004	5.9000e-004	5.9000e-004	6.1000e-004	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222	
tons/yr												MT/yr						

3.3 Site Preparation - 2015
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.3319	2.0000e-005	0.0000	0.3323
Total	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.3319	2.0000e-005	0.0000	0.3323
tons/yr											MT/yr					

3.4 Grading - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0456	0.0000	0.0456	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1027	0.9179	0.5487				0.0663		0.0610	0.0610	0.0000	60.0363	60.0363	0.0179	0.0000	60.4127
Total	0.1027	0.9179	0.5487		0.0456	0.0000	0.0456	0.0249	0.0610	0.0610	0.0000	60.0363	60.0363	0.0179	0.0000	60.4127
tons/yr											MT/yr					

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0278	0.4706	0.3076	1.0600e-003	0.0278	7.4300e-003	0.0352	7.5300e-003	6.8400e-003	0.0144	0.0000	97.7803	97.7803	7.9000e-004	0.0000	97.7969
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933
Total	0.0302	0.4742	0.3447	1.1300e-003	0.0333	7.4900e-003	0.0408	9.0000e-003	6.8900e-003	0.0159	0.0000	103.3666	103.3666	1.1200e-003	0.0000	103.3902
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0178	0.0000	0.0178	9.7000e-003	0.0000	9.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3317	0.4652	6.3000e-004			0.0203	0.0203	0.0203	0.0203	0.0000	60.0362	60.0362	0.0179	0.0000	60.4126
Total	0.0155	0.3317	0.4652	6.3000e-004	0.0178	0.0203	0.0381	9.7000e-003	0.0203	0.0300	0.0000	60.0362	60.0362	0.0179	0.0000	60.4126
tons/yr											MT/yr					

3.4 Grading - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0278	0.4706	0.3076	1.0600e-003	0.0278	7.4300e-003	0.0352	7.5300e-003	6.8400e-003	0.0144	0.0000	97.7803	97.7803	7.9000e-004	0.0000	97.7969
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933
Total	0.0302	0.4742	0.3447	1.1300e-003	0.0333	7.4900e-003	0.0408	9.0000e-003	6.8900e-003	0.0159	0.0000	103.3666	103.3666	1.1200e-003	0.0000	103.3902
tons/yr											MT/yr					

3.4 Grading - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0456	0.0000	0.0456	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1645	0.1019	1.2000e-004	0.0118	0.0118	0.0118	0.0109	0.0109	0.0109	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2345
Total	0.0185	0.1645	0.1019	1.2000e-004	0.0456	0.0118	0.0574	0.0249	0.0109	0.0358	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2345
tons/yr											MT/yr					

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	4.6000e-003	0.0782	0.0537	2.0000e-004	0.0230	1.1100e-003	0.0241	5.7700e-003	1.0200e-003	6.7900e-003	0.0000	18.1912	18.1912	1.3000e-004	0.0000	18.1940
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170
Total	5.0100e-003	0.0788	0.0600	2.1000e-004	0.0240	1.1200e-003	0.0251	6.0500e-003	1.0300e-003	7.0800e-003	0.0000	19.2071	19.2071	1.9000e-004	0.0000	19.2111
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0178	0.0000	0.0178	9.7000e-003	0.0000	9.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0624	0.0875	1.2000e-004		3.8200e-003	3.8200e-003	3.8200e-003	3.8200e-003	3.8200e-003	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2344
Total	2.9100e-003	0.0624	0.0875	1.2000e-004	0.0178	3.8200e-003	0.0216	9.7000e-003	3.8200e-003	0.0135	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2344
tons/yr											MT/yr					

3.4 Grading - 2016

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	4.6000e-003	0.0782	0.0537	2.0000e-004	0.0230	1.1100e-003	0.0241	5.7700e-003	1.0200e-003	6.7900e-003	0.0000	18.1912	18.1912	1.3000e-004	0.0000	18.1940
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170
Total	5.0100e-003	0.0788	0.0600	2.1000e-004	0.0240	1.1200e-003	0.0251	6.0500e-003	1.0300e-003	7.0800e-003	0.0000	19.2071	19.2071	1.9000e-004	0.0000	19.2111

3.5 Building Construction - 2016

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	0.3395	1.9785	1.4962	2.1700e-003		0.1362	0.1362		0.1315	0.1315	0.0000	182.0103	182.0103	0.0408	0.0000	182.8679
Total	0.3395	1.9785	1.4962	2.1700e-003		0.1362	0.1362		0.1315	0.1315	0.0000	182.0103	182.0103	0.0408	0.0000	182.8679

3.5 Building Construction - 2016

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	9.3100e-003	0.0947	0.1230	2.3000e-004	6.3500e-003	1.4200e-003	7.7700e-003	1.8100e-003	1.3100e-003	3.1200e-003	0.0000	20.6052	20.6052	1.5000e-004	0.0000	20.6084
Worker	0.0271	0.0396	0.4131	8.7000e-004	0.0681	6.6000e-004	0.0687	0.0181	6.0000e-004	0.0187	0.0000	66.4023	66.4023	3.7700e-003	0.0000	66.4814
Total	0.0364	0.1343	0.5361	1.1000e-003	0.0744	2.0800e-003	0.0765	0.0199	1.9100e-003	0.0218	0.0000	87.0075	87.0075	3.9200e-003	0.0000	87.0898

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	0.0657	1.2202	1.3413	2.1700e-003		0.0750	0.0750		0.0750	0.0750	0.0000	182.0101	182.0101	0.0408	0.0000	182.8677
Total	0.0657	1.2202	1.3413	2.1700e-003		0.0750	0.0750		0.0750	0.0750	0.0000	182.0101	182.0101	0.0408	0.0000	182.8677

3.5 Building Construction - 2016
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3100e-003	0.0947	0.1230	2.3000e-004	6.3500e-003	1.4200e-003	7.7700e-003	1.8100e-003	1.3100e-003	3.1200e-003	0.0000	20.6052	20.6052	1.5000e-004	0.0000	20.6084
Worker	0.0271	0.0396	0.4131	8.7000e-004	0.0681	6.6000e-004	0.0687	0.0181	6.0000e-004	0.0187	0.0000	66.4023	66.4023	3.7700e-003	0.0000	66.4814
Total	0.0364	0.1343	0.5361	1.1000e-003	0.0744	2.0800e-003	0.0765	0.0199	1.9100e-003	0.0218	0.0000	87.0075	87.0075	3.9200e-003	0.0000	87.0898
tons/yr											MT/yr					

3.6 Paving - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	4.7100e-003	0.0459	0.0299	4.0000e-005	2.9700e-003	2.9700e-003	2.9700e-003	2.7400e-003	2.7400e-003	2.7400e-003	0.0000	3.9704	3.9704	1.1600e-003	0.0000	3.9949
Paving	0.0000				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	4.7100e-003	0.0459	0.0299	4.0000e-005	2.9700e-003	2.9700e-003	2.9700e-003	2.7400e-003	2.7400e-003	2.7400e-003	0.0000	3.9704	3.9704	1.1600e-003	0.0000	3.9949
tons/yr											MT/yr					

3.6 Paving - 2016

Unmitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Worker	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.5346	3.0000e-005	0.0000	0.5353
Total	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.5346	3.0000e-005	0.0000	0.5353
tons/yr																	
MT/yr																	

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	9.9000e-004	0.0212	0.0305	4.0000e-005	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	0.0000	1.3100e-003	0.0000	0.0000	3.9704	1.1600e-003	0.0000	3.9949
Paving	0.0000				0.0000	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	9.9000e-004	0.0212	0.0305	4.0000e-005	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	0.0000	1.3100e-003	0.0000	0.0000	3.9704	1.1600e-003	0.0000	3.9949
tons/yr																	
MT/yr																	

Mitigated Construction Off-Site

3.6 Paving - 2016

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5346	3.0000e-005	0.0000	0.0000	0.5353
Total	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5346	3.0000e-005	0.0000	0.0000	0.5353
tons/yr																
MT/yr																

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.0161				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	2.3700e-003	1.8800e-003	0.0000	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	0.0000	0.2553	3.0000e-005	0.0000	0.0000	0.2560
Total	0.0164	2.3700e-003	1.8800e-003	0.0000	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	0.0000	0.2553	3.0000e-005	0.0000	0.0000	0.2560
tons/yr																
MT/yr																

**3.7 Architectural Coating - 2016
Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	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		5.0000e-005	7.0000e-005	7.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1176	0.1176	1.0000e-005	0.0000	0.1178	
Total		5.0000e-005	7.0000e-005	7.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1176	0.1176	1.0000e-005	0.0000	0.1178	
tons/yr												MT/yr						

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Archit. Coating		0.0161				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road		6.0000e-005	1.3600e-003	1.8300e-003	0.0000	1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560	
Total		0.0161	1.3600e-003	1.8300e-003	0.0000	1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560	
tons/yr												MT/yr						

3.7 Architectural Coating - 2016
Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Worker		5.0000e-005	7.0000e-005	7.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1176	0.1176	1.0000e-005	0.0000	0.1178	0.1178
Total		5.0000e-005	7.0000e-005	7.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1176	0.1176	1.0000e-005	0.0000	0.1178	0.1178
tons/yr												MT/yr						

3.7 Architectural Coating - 2017
Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Archit. Coating		0.4655				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road		9.6400e-003	0.0634	0.0542	9.0000e-005	5.0300e-003	5.0300e-003	5.0300e-003	5.0300e-003	5.0300e-003	5.0300e-003	0.0000	7.4044	7.4044	7.8000e-004	0.0000	7.4209	
Total		0.4751	0.0634	0.0542	9.0000e-005	5.0300e-003	5.0300e-003	5.0300e-003	5.0300e-003	5.0300e-003	5.0300e-003	0.0000	7.4044	7.4044	7.8000e-004	0.0000	7.4209	
tons/yr												MT/yr						

**3.7 Architectural Coating - 2017
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.2500e-003	1.8400e-003	0.0192	4.0000e-005	3.5000e-003	3.0000e-005	3.5300e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2832	3.2832	1.8000e-004	0.0000	3.2869
Total	1.2500e-003	1.8400e-003	0.0192	4.0000e-005	3.5000e-003	3.0000e-005	3.5300e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2832	3.2832	1.8000e-004	0.0000	3.2869
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.4655				0.0000	0.0000	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	0.0394	0.0531	9.0000e-005	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003	0.0000	7.4044	7.4044	7.8000e-004	0.0000	7.4208
Total	0.4672	0.0394	0.0531	9.0000e-005	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003	0.0000	7.4044	7.4044	7.8000e-004	0.0000	7.4208
tons/yr											MT/yr					

3.7 Architectural Coating - 2017

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	1.2500e-003	1.8400e-003	0.0192	4.0000e-005	3.5000e-003	3.0000e-005	3.5300e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2832	3.2832	1.8000e-004	0.0000	3.2869
Total	1.2500e-003	1.8400e-003	0.0192	4.0000e-005	3.5000e-003	3.0000e-005	3.5300e-003	9.3000e-004	3.0000e-005	9.6000e-004	0.0000	3.2832	3.2832	1.8000e-004	0.0000	3.2869

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2903	0.8375	3.2412	7.6200e-003	0.5043	0.0114	0.5157	0.1351	0.0105	0.1456	0.0000	590.8054	590.8054	0.0244	0.0000	591.3170
Unmitigated	0.3100	0.9880	3.7251	9.1900e-003	0.6115	0.0137	0.6252	0.1638	0.0126	0.1764	0.0000	712.7079	712.7079	0.0291	0.0000	713.3183

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	472.15	472.15	472.15	1,613,408	1,330,570
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	472.15	472.15	472.15	1,613,408	1,330,570

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	131.0007	131.0007	3.4100e-003	7.0000e-004	131.2907
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	132.5987	132.5987	3.4500e-003	7.1000e-004	132.8922
NaturalGas Mitigated	2.5000e-003	0.0214	9.3700e-003	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.7629	24.7629	4.7000e-004	4.5000e-004	24.9136
NaturalGas Unmitigated	2.8300e-003	0.0242	0.0106	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9897	27.9897	5.4000e-004	5.1000e-004	28.1601

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	0.0000
Health Club	14314.4	8.0000e-005	7.0000e-004	5.9000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7639	0.7639	1.0000e-005	1.0000e-005	0.7685	
Other Asphalt Surfaces	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	
Apartments Mid Rise	510193	2.7500e-003	0.0235	0.0100	1.5000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	27.2259	27.2259	5.2000e-004	5.0000e-004	27.3916	
Total		2.8300e-003	0.0242	0.0106	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9897	27.9897	5.3000e-004	5.1000e-004	28.1601	

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					
Health Club	12675.2	7.0000e-005	6.2000e-004	5.2000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6764	0.6764	1.0000e-005	1.0000e-005	0.6805
Other Asphalt Surfaces	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
Apartments Mid Rise	451365	2.4300e-003	0.0208	8.8500e-003	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0865	24.0865	4.6000e-004	4.4000e-004	24.2331
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
Total		2.5000e-003	0.0214	9.3700e-003	1.3000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.7629	24.7629	4.7000e-004	4.5000e-004	24.9136

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	252932	127.9595	3.3300e-003	6.9000e-004	128.2428
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	9170.05	4.6392	1.2000e-004	2.0000e-005	4.6495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		132.5987	3.4500e-003	7.1000e-004	132.8922

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	250087	126.5203	3.2900e-003	6.8000e-004	126.8004
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	8856.14	4.4804	1.2000e-004	2.0000e-005	4.4903
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		131.0007	3.4100e-003	7.0000e-004	131.2907

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5640	8.6500e-003	0.7422	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.2010	1.2010	1.2100e-003	0.0000	1.2265
Unmitigated	0.5640	8.6500e-003	0.7422	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.2010	1.2010	1.2100e-003	0.0000	1.2265

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	0.0482					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4925					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0233	8.6500e-003	0.7422	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.2010	1.2010	1.2100e-003	0.0000	1.2265
Total	0.5640	8.6500e-003	0.7422	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.2010	1.2010	1.2100e-003	0.0000	1.2265

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	0.0482					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4925					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0233	8.6500e-003	0.7422	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.2010	1.2010	1.2100e-003	0.0000	1.2265
Total	0.5640	8.6500e-003	0.7422	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.2010	1.2010	1.2100e-003	0.0000	1.2265

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

7.2 Water by Land Use
Unmitigated

Category		MT/yr			
	Total CO2	CH4	N2O	CO2e	
Mitigated	21,7455	0.1067	2.6200e-003	24,7971	
Unmitigated	28,1128	0.1334	3.2800e-003	31,9294	

Land Use		Mgal			
	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Apartment's Mid Rise	4.07158 / 0	28,1128	0.1334	3.2800e-003	31,9294
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		28,1128	0.1334	3.2800e-003	31,9294

7.2 Water by Land Use
Mitigated

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr		
Apartments Mid Rise	3.25726 / 0	21.7455	0.1067	2.6200e-003
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000
Total		21.7455	0.1067	2.6200e-003
				24.7971

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

8.2 Waste by Land Use
Unmitigated

Category/Year		Total CO2	CH4	N2O	CO2e
Mitigated	2.5536	0.1509	0.0000	5.7228	
Unmitigated	5.1073	0.3018	0.0000	11.4457	
		MT/yr			

Waste Disposed	tons	Total CO2	CH4	N2O	CO2e
Land Use		MT/yr			
Apartments Mid Rise	25.16	5.1073	0.3018	0.0000	11.4457
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		5.1073	0.3018	0.0000	11.4457

Category/Year

Enclave Multifamily Residential Project
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	162.00	Space	0.00	0.00	0
Other Asphalt Surfaces	36.00	1000sqft	0.00	36,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	71.00	Dwelling Unit	0.72	99,539.00	185

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage, floor area per Conceptual Plan. Population is 2.6 res per unit

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	5.00	10.00
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tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.72
tblGrading	MaterialExported	0.00	28,500.00
tblLandUse	LandUseSquareFeet	64,800.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	71,000.00	99,539.00
tblLandUse	LotAcreage	1.46	0.00
tblLandUse	LotAcreage	0.83	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	1.87	0.72
tblLandUse	Population	203.00	185.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	32.66	25.16
tblSolidWaste	SolidWasteGenerationRate	4.33	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
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tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
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tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
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tblVehicleTrips	PB_TP	9.00	0.00

tblVehicleTrips	PR_TP	52.00	0.00
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tblVehicleTrips	ST_TR	20.87	0.00
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tblWater	IndoorWaterUseRate	4,625,935.82	4,071,575.00
tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day										lb/day				
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBIO- CO2	Total CO2	CH4	N2O	CO2e
2015	2.6140	27.0773	17.1387	0.0349	1.4315	1.4616	2.8932	1.3447	1.9403	0.0000	3,573.711	3,573.711	0.4157	0.0000	3,582,440
2016	16.4684	25.1768	17.6714	0.0349	3.3420	1.3633	4.7053	1.0646	1.2542	0.0000	3,530.783	3,530.783	0.4290	0.0000	3,539,793
2017	16.4273	2.2408	2.5594	4.5700e-003	0.1230	0.1745	0.2974	0.0326	0.1744	0.0000	411.5811	411.5811	0.0365	0.0000	412,3479
Total	35.5097	54.4950	37.3695	0.0743	4.8965	2.9993	7.8959	1.6928	2.7732	0.0000	7,516.075	7,516.075	0.8812	0.0000	7,534,581

Mitigated Construction

Year	lb/day										lb/day				
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBIO- CO2	Total CO2	CH4	N2O	CO2e
2015	0.8867	15.4701	15.4870	0.0349	0.9685	1.5190	0.3428	0.5387	0.8814	0.0000	3,573.711	3,573.711	0.4157	0.0000	3,582,440
2016	16.1594	14.4292	16.3242	0.0349	2.8790	3.3991	0.8117	0.6683	1.3225	0.0000	3,530.783	3,530.783	0.4290	0.0000	3,539,793
2017	16.1544	1.4127	2.5238	4.5700e-003	0.1230	0.0962	0.2192	0.0326	0.1287	0.0000	411.5811	411.5811	0.0365	0.0000	412,3479
Total	33.2005	31.3120	34.3350	0.0743	3.9704	1.3165	5.1373	1.1871	1.3031	0.0000	7,516.075	7,516.075	0.8812	0.0000	7,534,581

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.50	42.54	8.12	0.00	18.91	56.11	34.94	29.87	53.01	47.77	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	3.1488	0.0692	5.9373	3.1000e-004	0.0322	0.0322	0.0322	0.0322	0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156
Energy	0.0155	0.1327	0.0580	8.5000e-004	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107		169.0597	169.0597	3.2400e-003	3.1000e-003	170.0885
Mobile	1.7111	5.0524	20.4328	0.0523	3.4262	0.0751	3.5013	0.9162	0.0691	0.9853		4,462.155	4,462.155	0.1762		4,465.856
Total	4.8754	5.2542	26.4281	0.0534	3.4262	0.1180	3.5442	0.9162	0.1120	1.0282	0.0000	4,641.806	4,641.806	0.1902	3.1000e-003	4,646.760

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	3.1488	0.0692	5.9373	3.1000e-004	0.0322	0.0322	0.0322	0.0322	0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156
Energy	0.0137	0.1174	0.0514	7.5000e-004	9.4700e-003	9.4700e-003	9.4700e-003	9.4700e-003	9.4700e-003	9.4700e-003		149.5696	149.5696	2.8700e-003	2.7400e-003	150.4799
Mobile	1.6005	4.2891	17.5968	0.0433	2.8256	0.0626	2.8881	0.7556	0.0576	0.8132		3,698.667	3,698.667	0.1477		3,701.768
Total	4.7630	4.4756	23.5855	0.0444	2.8256	0.1043	2.9298	0.7556	0.0993	0.8548	0.0000	3,858.827	3,858.827	0.1613	2.7400e-003	3,863.063

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.30	14.82	10.76	16.93	17.53	11.65	17.33	17.53	11.38	16.86	0.00	16.87	16.87	15.20	11.61	16.87

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	12/14/2016	5	230	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	3/22/2017	5	60	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 201,566; Residential Outdoor: 67,189; Non-Residential Indoor: 11,942; Non-Residential Outdoor: 3,981 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,818.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.6386	1,200.6386	0.2451		1,205.7861
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404		320.1875	320.1875	2.5800e-003		320.2416
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711		447.3297	447.3297	9.8400e-003		447.5362
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	0.2661	5.9808	7.9564	0.0120			0.4023	0.4023		0.4023		1,200.638	1,200.638	0.2451		1,205.786
Total	0.2661	5.9808	7.9564	0.0120	0.2964	0.4023	0.6987	0.0449	0.4023	0.4472		1,200.638	1,200.638	0.2451		1,205.786
lb/day																

3.2 Demolition - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404		320.1875	320.1875	2.5800e-003		320.2416
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711		447.3297	447.3297	9.8400e-003		447.5362
lb/day																

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1273	0.0000	0.1273	0.0137	0.0000	0.0137		0.0000	0.0000			0.0000
Off-Road	1.0667	10.7250	5.5547	7.0200e-003		0.6598	0.6598		0.6070	0.6070		738.4156	738.4156	0.2205		743.0450
Total	1.0667	10.7250	5.5547	7.0200e-003	0.1273	0.6598	0.7870	0.0137	0.6070	0.6207		738.4156	738.4156	0.2205		743.0450
lb/day																

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			127.1422	7.2600e-003		127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			127.1422	7.2600e-003		127.2945
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0496	0.0000	0.0496	5.3600e-003	0.0000	5.3600e-003			0.0000			0.0000
Off-Road	0.1702	3.4901	5.2481	7.0200e-003		0.1968	0.1968		0.1968	0.1968			738.4156	0.2205		743.0450
Total	0.1702	3.4901	5.2481	7.0200e-003	0.0496	0.1968	0.1968	5.3600e-003	0.1968	0.2022			738.4156	0.2205		743.0450
lb/day																

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	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	0.0000	0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	127.1422	127.1422	127.1422	127.1422	7.2600e-003		127.2945	127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	127.1422	127.1422	127.1422	127.1422	7.2600e-003		127.2945	127.2945

3.4 Grading - 2015

Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
lb/day																		
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.7591	0.0000	0.0000	0.7591	0.4145	0.0000	0.4145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0341	18.1764	10.8645	0.0125		1.3135	1.3135	2.6270		1.2084	1.2084	1.310.4692	1.310.4692	1.310.4692	0.3912		1.318.6850	1.318.6850
Total	2.0341	18.1764	10.8645	0.0125	0.7591	0.0000	0.0000	2.0726	0.4145	1.2084	1.6229	1.310.4692	1.310.4692	1.310.4692	0.3912		1.318.6850	1.318.6850

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.5306	8.8390	5.5096	0.0210	0.5606	0.1470	0.7077	0.1515	0.1353	0.2868	2,136.099	2,136.099	0.0172	0.0172		2,136.460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	127.1422	127.1422	7.2600e-003			127.2945
Total	0.5799	8.9009	6.2742	0.0224	0.6724	0.1482	0.8206	0.1811	0.1363	0.3174	2,263.241	2,263.241	0.0244			2,263.755
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616	0.0000	0.0000	0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024	0.0000	1,310.469	1,310.469	0.3912		1,318.685
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.4024	0.1616	0.4024	0.5640	0.0000	1,310.469	1,310.469	0.3912		1,318.685
lb/day																

3.4 Grading - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.5306	8.8390	5.5096	0.0210	0.5606	0.1470	0.7077	0.1515	0.1353	0.2868	2,136.099	2,136.099	0.0172	0.0000	0.0000	2,136.460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	127.1422	127.1422	7.2600e-003	0.0000	0.0000	127.2945
Total	0.5799	8.9009	6.2742	0.0224	0.6724	0.1482	0.8206	0.1811	0.1363	0.3174	2,263.241	2,263.241	0.0244	0.0000	0.0000	2,263.755

3.4 Grading - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.7591	0.0000	0.7591	0.4145	0.0000	0.4145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9454	17.3168	10.7280	0.0125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1,295.359	1,295.359	0.3907	0.0000	0.0000	1,303.665
Total	1.9454	17.3168	10.7280	0.0125	0.7591	0.0000	0.7591	0.4145	0.0000	0.4145	1,295.359	1,295.359	0.3907	0.0000	0.0000	1,303.665

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.4678	7.8040	5.0651	0.0210	2.4711	0.1167	2.5879	0.6205	0.1074	0.7278	2,112.521	2,112.521	2,112.521	0.0154		2,112.846
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	122.9021	122.9021	122.9021	6.6900e-003		123.0426
Total	0.5124	7.8601	5.7588	0.0224	2.5829	0.1178	2.7007	0.6501	0.1084	0.7585	2,235.424	2,235.424	2,235.424	0.0221		2,235.888
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2961	0.0000	0.0000	0.2961	0.1616	0.0000	0.0000	0.0000	0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024	0.4024	0.4024	0.4024	1,295.359	1,295.359	1,295.359	0.3907		1,303.665
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.4024	0.6984	0.1616	0.4024	0.0000	1,295.359	1,295.359	0.3907		1,303.565
lb/day																

3.4 Grading - 2016

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	0.4678	7.8040	5.0651	0.0210	2.4711	0.1167	2.5879	0.6205	0.1074	0.7278		2,112.5219	2,112.5219	0.0154		2,112.8462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426
Total	0.5124	7.8601	5.7588	0.0224	2.5829	0.1178	2.7007	0.6501	0.1084	0.7585		2,235.4240	2,235.4240	0.0221		2,235.8888

3.5 Building Construction - 2016

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	2.9517	17.2043	13.0104	0.0189		1.1842	1.1842		1.1438	1.1438		1,744.6259	1,744.6259	0.3915		1,752.8463
Total	2.9517	17.2043	13.0104	0.0189		1.1842	1.1842		1.1438	1.1438		1,744.6259	1,744.6259	0.3915		1,752.8463

3.5 Building Construction - 2016

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	0.0758	0.7876	0.9150	1.9800e-003	0.0561	0.0123	0.0684	0.0160	0.0113	0.0273		198.1986	198.1986	1.4500e-003			198.2291
Worker	0.2405	0.3027	3.7460	7.8500e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653		663.6715	663.6715	0.0361			664.4302
Total	0.3163	1.0903	4.6610	9.8300e-003	0.6597	0.0180	0.6777	0.1761	0.0166	0.1926		861.8700	861.8700	0.0376			862.6593

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	0.5709	10.6108	11.6633	0.0189		0.6518	0.6518		0.6518	0.6518	0.0000	1,744.6259	1,744.6259	0.3915			1,752.8463
Total	0.5709	10.6108	11.6633	0.0189		0.6518	0.6518		0.6518	0.6518	0.0000	1,744.6259	1,744.6259	0.3915			1,752.8463

3.5 Building Construction - 2016
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0758	0.7876	0.9150	1.9800e-003	0.0561	0.0123	0.0684	0.0160	0.0113	0.0273	198.1986	198.1986	1.4500e-003			198.2291
Worker	0.2405	0.3027	3.7460	7.8500e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653	663.6715	663.6715	0.0361			664.4302
Total	0.3163	1.0903	4.6610	9.8300e-003	0.6597	0.0180	0.6777	0.1761	0.0166	0.1926		861.8700	861.8700	0.0376		862.6593

3.6 Paving - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.9428	9.1717	5.9832	8.5900e-003	0.5940	0.5940	0.5940	0.5474	0.5474	0.5474	875.3305	875.3305	0.2565			880.7178
Paving	0.0000							0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.9428	9.1717	5.9832	8.5900e-003	0.5940	0.5940	0.5940	0.5474	0.5474	0.5474		875.3305	875.3305	0.2565		880.7178

3.6 Paving - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	122.9021	122.9021	122.9021	6.6900e-003		123.0426
Total	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306			122.9021	6.6900e-003		123.0426
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1981	4.2306	6.1067	8.5900e-003	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178
Paving	0.0000						0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.1981	4.2306	6.1067	8.5900e-003	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178
lb/day																

Mitigated Construction Off-Site

3.6 Paving - 2016

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	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		0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	122.9021	122.9021	122.9021	6.6900e-003		123.0426
Total		0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	122.9021	122.9021	122.9021	6.6900e-003		123.0426
lb/day																	

3.7 Architectural Coating - 2016
Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating		16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road		0.3685	2.3722	1.8839	2.9700e-003	0.1966	0.1966	0.1966	0.1966	0.1966	0.1966			281.4481	281.4481	0.0332	282.1449
Total		16.4194	2.3722	1.8839	2.9700e-003	0.1966	0.1966	0.1966	0.1966	0.1966	0.1966			281.4481	281.4481	0.0332	282.1449
lb/day																	

**3.7 Architectural Coating - 2016
Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	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		0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	135.1923	135.1923	135.1923	7.3600e-003		135.3469
Total		0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	135.1923	135.1923	135.1923	7.3600e-003		135.3469

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating		16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Off-Road		0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449
Total		16.1104	1.3570	1.8324	2.9700e-003	0.0000	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449

3.7 Architectural Coating - 2016
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	1.0700e-003	0.0326	0.0337	135.1923	135.1923	135.1923	7.3600e-003		135.3469
Total	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	1.0700e-003	0.0326	0.0337	135.1923	135.1923	135.1923	7.3600e-003		135.3469
lb/day																

3.7 Architectural Coating - 2017
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721
Total	16.3833	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721
lb/day																

**3.7 Architectural Coating - 2017
Unmitigated Construction Off-Site**

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336	130.1330	130.1330	130.1330	6.8000e-003		130.2759	130.2759
lb/day										lb/day						
Total																
0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336	130.1330	130.1330	130.1330	6.8000e-003		130.2759	130.2759
Worker																
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Hauling																
0.0000	0.0000	0.0000	0.0000	0.0000	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																
0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336	130.1330	130.1330	130.1330	6.8000e-003		130.2759	130.2759

Mitigated Construction On-Site

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16.1104	0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	281.4481	0.0297	282.0721	282.0721
lb/day										lb/day						
Archit. Coating																
16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road																
0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	281.4481	0.0297	282.0721	282.0721
Total																
16.1104	0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	281.4481	0.0297	282.0721	282.0721

3.7 Architectural Coating - 2017

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	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		130.1330	130.1330	6.8000e-003		130.2759
Total	0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		130.1330	130.1330	6.8000e-003		130.2759

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6005	4.2891	17.5968	0.0433	2.8256	0.0626	2.8881	0.7556	0.0576	0.8132		3,698.6670	3,698.6670	0.1477		3,701.7682
Unmitigated	1.7111	5.0524	20.4328	0.0523	3.4262	0.0751	3.5013	0.9162	0.0691	0.9853		4,462.1559	4,462.1559	0.1762		4,465.8564

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	472.15	472.15	472.15	1,613,408	1,330,570
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	472.15	472.15	472.15	1,613,408	1,330,570

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0137	0.1174	0.0514	7.5000e-004		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003		149.5696	149.5696	2.8700e-003	2.7400e-003	150.4799
NaturalGas Unmitigated	0.0155	0.1327	0.0580	8.5000e-004		0.0107	0.0107		0.0107	0.0107		169.0597	169.0597	3.2400e-003	3.1000e-003	170.0885

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
Health Club	39.2176	4.2000e-004	3.8400e-003	3.2300e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6138	4.6138	9.0000e-005	8.0000e-005	4.6419
Other Asphalt Surfaces	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
Apartments Mid Rise	1397.79	0.0151	0.1288	0.0548	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.4458	164.4458	3.1500e-003	3.0100e-003	165.4466
Total		0.0155	0.1327	0.0581	8.4000e-004		0.0107	0.0107		0.0107	0.0107		169.0597	169.0597	3.2400e-003	3.0900e-003	170.0885

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					
Health Club	0.0347266	3.7000e-004	3.4000e-003	2.8600e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		4.0855	4.0855	8.0000e-005	7.0000e-005	4.1104
Other Asphalt Surfaces	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
Apartments Mid Rise	1.23662	0.0133	0.1140	0.0485	7.3000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003		145.4841	145.4841	2.7900e-003	2.6700e-003	146.3695
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
Total		0.0137	0.1174	0.0514	7.5000e-004		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003		149.5696	149.5696	2.8700e-003	2.7400e-003	150.4799

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.1488	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156
Unmitigated	3.1488	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156

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	0.2639					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1862	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322		10.5907	10.5907	0.0107		10.8156
Total	3.1488	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156

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	0.2639					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1862	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322		10.5907	10.5907	0.0107		10.8156
Total	3.1488	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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
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10.0 Vegetation

**Enclave Multifamily Residential Project
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	162.00	Space	0.00	0.00	0
Other Asphalt Surfaces	36.00	1000sqft	0.00	36,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	71.00	Dwelling Unit	0.72	99,539.00	185

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage, floor area per Conceptual Plan. Population is 2.6 res per unit

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	60.00

tblConstructionPhase	NumDays	100.00	230.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	120.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	6.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.72
tblGrading	MaterialExported	0.00	28,500.00
tblLandUse	LandUseSquareFeet	64,800.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	71,000.00	99,539.00
tblLandUse	LotAcreage	1.46	0.00
tblLandUse	LotAcreage	0.83	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	1.87	0.72
tblLandUse	Population	203.00	185.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	32.66	25.16
tblSolidWaste	SolidWasteGenerationRate	4.33	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00

tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	4,625,935.82	4,071,575.00
tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)
Unmitigated Construction

Year	lb/day														
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2015	2.6455	27.4009	17.8339	0.0348	1.4315	1.4621	2.8936	1.3451	1.9407	0.0000	3,562.395	3,562.395	0.4158	0.0000	3,571.128
2016	16.4704	25.4624	17.6418	0.0347	3.3420	1.3635	4.7056	1.0646	2.3190	0.0000	3,519.735	3,519.735	0.4291	0.0000	3,528.745
2017	16.4290	2.2469	2.5146	4.4800e-003	0.1230	0.1745	0.2974	0.0326	0.1744	0.0000	404.2669	404.2669	0.0365	0.0000	405.0338
Total	35.5448	55.1101	37.9904	0.0740	4.8965	3.0000	7.8966	1.6928	2.7738	0.0000	7,486.397	7,486.397	0.8814	0.0000	7,504.907

Mitigated Construction

Year	lb/day														
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2015	0.9182	15.7936	16.1822	0.0348	0.9685	0.5510	1.5194	0.3428	0.8818	0.0000	3,562.395	3,562.395	0.4158	0.0000	3,571.128
2016	16.1614	14.7147	16.2947	0.0347	2.8790	0.6699	3.3994	0.8117	1.3227	0.0000	3,519.735	3,519.735	0.4291	0.0000	3,528.745
2017	16.1561	1.4188	2.4790	4.4800e-003	0.1230	0.0962	0.2192	0.0326	0.1287	0.0000	404.2669	404.2669	0.0365	0.0000	405.0338
Total	33.2357	31.9272	34.9559	0.0740	3.9704	1.3171	5.1380	1.1871	1.3036	0.0000	7,486.397	7,486.397	0.8814	0.0000	7,504.907

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.50	42.07	7.99	0.00	18.91	56.10	34.93	29.87	53.00	47.76	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	3.1488	0.0692	5.9373	3.1000e-004	0.0322	0.0322	0.0322	0.0322	0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156
Energy	0.0155	0.1327	0.0580	8.5000e-004	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107		169.0597	169.0597	3.2400e-003	3.1000e-003	170.0885
Mobile	1.7914	5.3263	20.3620	0.0499	3.4262	0.0754	3.5015	0.9162	0.0694	0.9855		4,267.905	4,267.905	0.1764		4,271.608
Total	4.9557	5.5281	26.3573	0.0511	3.4262	0.1183	3.5445	0.9162	0.1123	1.0284	0.0000	4,447.555	4,447.555	0.1903	3.1000e-003	4,452.512

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	3.1488	0.0692	5.9373	3.1000e-004	0.0322	0.0322	0.0322	0.0322	0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156
Energy	0.0137	0.1174	0.0514	7.5000e-004	9.4700e-003	9.4700e-003	9.4700e-003	9.4700e-003	9.4700e-003	9.4700e-003		149.5696	149.5696	2.8700e-003	2.7400e-003	150.4799
Mobile	1.6838	4.5163	17.7686	0.0414	2.8256	0.0629	2.8884	0.7556	0.0579	0.8134		3,537.700	3,537.700	0.1478		3,540.805
Total	4.8463	4.7028	23.7572	0.0424	2.8256	0.1045	2.9301	0.7556	0.0995	0.8551	0.0000	3,697.861	3,697.861	0.1614	2.7400e-003	3,702.100

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.21	14.93	9.86	16.90	17.53	11.62	17.33	17.53	11.36	16.86	0.00	16.86	16.86	15.19	11.61	16.85

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	12/14/2016	5	230	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	3/22/2017	5	60	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 201,566; Residential Outdoor: 67,189; Non-Residential Indoor: 11,942; Non-Residential Outdoor: 3,981 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,818.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.6386	1,200.6386	0.2451		1,205.7861
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015

Unmitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day		lb/day															
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405	319.5604	319.5604	2.6000e-003	319.6150			
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	7.2600e-003	120.1631			
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711	439.5711	439.5711	9.8600e-003	439.7782			

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day		lb/day															
Fugitive Dust	0.0000					0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	0.2661	5.9808	7.9564	0.0120			0.4023	0.4023		0.4023	0.4023			1,200.638	0.2451		1,205.786
Total	0.2661	5.9808	7.9564	0.0120		0.2964	0.4023	0.4023	0.0449	0.4023	0.4472			1,200.638	0.2451		1,205.786

3.2 Demolition - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405		319.5604	319.5604	2.6000e-003		319.6150
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711		439.5711	439.5711	9.8600e-003		439.7782
lb/day																

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1273	0.0000	0.1273	0.0137	0.0000	0.0137		0.0000	0.0000			0.0000
Off-Road	1.0667	10.7250	5.5547	7.0200e-003		0.6598	0.6598		0.6070	0.6070		738.4156	738.4156	0.2205		743.0450
Total	1.0667	10.7250	5.5547	7.0200e-003	0.1273	0.6598	0.7870	0.0137	0.6070	0.6207		738.4156	738.4156	0.2205		743.0450
lb/day																

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003		120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			120.0108	7.2600e-003		120.1631

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0496	0.0000	0.0496	5.3600e-003	0.0000	5.3600e-003	0.0000	0.0000	0.0000			0.0000
Off-Road	0.1702	3.4901	5.2481	7.0200e-003		0.1968	0.1968		0.1968	0.1968	0.0000	738.4156	738.4156	0.2205		743.0450
Total	0.1702	3.4901	5.2481	7.0200e-003	0.0496	0.1968	0.1968	5.3600e-003	0.1968	0.2465	0.0000	738.4156	738.4156	0.2205		743.0450

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	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	0.0000	0.0000
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	120.0108	7.2600e-003		120.1631	120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	120.0108	7.2600e-003		120.1631	120.1631

3.4 Grading - 2015

Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
lb/day																		
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.7591	0.0000	0.7591	0.4145	0.0000	0.4145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0341	18.1764	10.8645	0.0125			1.3135	1.3135		1.2084	1.2084	1,310.4692	1,310.4692	1,310.4692	0.3912		1,318.6850	1,318.6850
Total	2.0341	18.1764	10.8645	0.0125		0.7591	0.0000	0.7591	0.4145	1.2084	1.6229	1,310.4692	1,310.4692	1,310.4692	0.3912		1,318.6850	1,318.6850

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.5600	9.1557	6.2490	0.0209	0.5606	0.1475	0.7081	0.1515	0.1357	0.2872	2,131.915	2,131.915	2,131.915	0.0174		2,132.280
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003		120.1631
Total	0.6114	9.2245	6.9694	0.0223	0.6724	0.1486	0.8210	0.1811	0.1367	0.3178	2,251.926	2,251.926	2,251.926	0.0246		2,252.443

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024	0.0000	1,310.469	1,310.469	0.3912		1,318.685
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.6984	0.1616	0.4024	0.5640	0.0000	1,310.469	1,310.469	0.3912		1,318.685

3.4 Grading - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.5600	9.1557	6.2490	0.0209	0.5606	0.1475	0.7081	0.1515	0.1357	0.2872	2,131.915	2,131.915	2,131.915	0.0174		2,132.280
Vendor		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker		0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003		120.1631
Total		0.6114	9.2245	6.9694	0.0223	0.6724	0.1486	0.8210	0.1811	0.1367	0.3178	2,251.926	2,251.926	2,251.926	0.0246		2,252.443

3.4 Grading - 2016

Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust						0.7591	0.0000	0.7591	0.4145	0.0000	0.4145			0.0000			0.0000
Off-Road		1.9454	17.3168	10.7280	0.0125		1.2455	1.2455		1.1459	1.1459	1,295.359	1,295.359	1,295.359	0.3907		1,303.665
Total		1.9454	17.3168	10.7280	0.0125	0.7591	1.2455	2.0046	0.4145	1.1459	1.5603	1,295.359	1,295.359	1,295.359	0.3907		1,303.665

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.4921	8.0834	5.8049	0.0209	2.4711	0.1170	2.5881	0.6205	0.1076	0.7281	2,108.372	2,108.372	2,108.372	0.0156		2,108.700
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003		116.1436
Total	0.5385	8.1456	6.4562	0.0223	2.5829	0.1180	2.7009	0.6501	0.1086	0.7587	2,224.375	2,224.375	2,224.375	0.0223		2,224.843

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616	0.0000	0.0000	0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024	0.4024	0.4024	0.4024	1,295.359	1,295.359	1,295.359	0.3907		1,303.665
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.4024	0.6984	0.4024	0.5640	0.0000	1,295.359	1,295.359	0.3907		1,303.565

3.4 Grading - 2016

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	0.4921	8.0834	5.8049	0.0209	2.4711	0.1170	2.5881	0.6205	0.1076	0.7281		2,108.3723	2,108.3723	0.0156		2,108.7001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436
Total	0.5385	8.1456	6.4562	0.0223	2.5829	0.1180	2.7009	0.6501	0.1086	0.7587		2,224.3754	2,224.3754	0.0223		2,224.8437

3.5 Building Construction - 2016

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	2.9517	17.2043	13.0104	0.0189		1.1842	1.1842		1.1438	1.1438		1,744.6259	1,744.6259	0.3915		1,752.8463
Total	2.9517	17.2043	13.0104	0.0189		1.1842	1.1842		1.1438	1.1438		1,744.6259	1,744.6259	0.3915		1,752.8463

3.5 Building Construction - 2016

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	0.0837	0.8074	1.1140	1.9600e-003	0.0561	0.0124	0.0686	0.0160	0.0114	0.0274		196.5529	196.5529	1.5000e-003			196.5843
Worker	0.2502	0.3357	3.5174	7.4100e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653		626.4168	626.4168	0.0361			627.1755
Total	0.3339	1.1430	4.6315	9.3700e-003	0.6597	0.0182	0.6779	0.1761	0.0167	0.1927		822.9697	822.9697	0.0376			823.7598

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	0.5709	10.6108	11.6633	0.0189		0.6518	0.6518		0.6518	0.6518	0.0000	1,744.6259	1,744.6259	0.3915			1,752.8463
Total	0.5709	10.6108	11.6633	0.0189		0.6518	0.6518		0.6518	0.6518	0.0000	1,744.6259	1,744.6259	0.3915			1,752.8463

3.5 Building Construction - 2016
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0837	0.8074	1.1140	1.9600e-003	0.0561	0.0124	0.0686	0.0160	0.0114	0.0274	196.5529	196.5529	1.5000e-003			196.5843
Worker	0.2502	0.3357	3.5174	7.4100e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653	626.4168	626.4168	0.0361			627.1755
Total	0.3339	1.1430	4.6315	9.3700e-003	0.6597	0.0182	0.6779	0.1761	0.0167	0.1927		822.9697	822.9697	0.0376		823.7598
lb/day																

3.6 Paving - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.9428	9.1717	5.9832	8.5900e-003	0.5940	0.5940	0.5940	0.5474	0.5474	0.5474	875.3305	875.3305	0.2565			880.7178
Paving	0.0000							0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.9428	9.1717	5.9832	8.5900e-003	0.5940	0.5940	0.5940	0.5474	0.5474	0.5474	875.3305	875.3305	0.2565			880.7178
lb/day																

3.6 Paving - 2016

Unmitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0000	0.0000	0.0000	0.0000	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
Worker		0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003		116.1436
Total		0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306						116.1436
lb/day																	

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road		0.1981	4.2306	6.1067	8.5900e-003	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178
Paving		0.0000						0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total		0.1981	4.2306	6.1067	8.5900e-003	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178
lb/day																	

Mitigated Construction Off-Site

3.6 Paving - 2016

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003		116.1436	116.1436
lb/day										lb/day						
Total																
0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003		116.1436	116.1436
Worker																
0.0000	0.0000	0.0000	0.0000	0.0000	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
Hauling																

3.7 Architectural Coating - 2016
Unmitigated Construction On-Site

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000
0.3685	2.3722	1.8839	2.9700e-003	0.1966	0.1966	0.1966	0.1966	0.1966	0.1966	281.4481	281.4481	281.4481	0.0332		282.1449	282.1449
lb/day										lb/day						
Total																
16.4194	2.3722	1.8839	2.9700e-003	0.1966	0.1966	0.1966	0.1966	0.1966	0.1966	281.4481	281.4481	281.4481	0.0332		282.1449	282.1449
Off-Road																
16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000
Archit. Coating																
16.4194	2.3722	1.8839	2.9700e-003	0.1966	0.1966	0.1966	0.1966	0.1966	0.1966	281.4481	281.4481	281.4481	0.0332		282.1449	282.1449
Total																

**3.7 Architectural Coating - 2016
Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	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		0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	127.6034	127.6034	127.6034	7.3600e-003		127.7580
Total		0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	127.6034	127.6034	127.6034	7.3600e-003		127.7580
lb/day																	

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating		16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Off-Road		0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449
Total		16.1104	1.3570	1.8324	2.9700e-003	0.0000	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449
lb/day																	

3.7 Architectural Coating - 2016
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	127.6034	127.6034	127.6034	7.3600e-003		127.7580
Total	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	127.6034	127.6034	127.6034	7.3600e-003		127.7580
lb/day																

3.7 Architectural Coating - 2017
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721
Total	16.3833	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721
lb/day																

**3.7 Architectural Coating - 2017
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336	122.8189	122.8189	122.8189	6.8000e-003		122.9617
Total	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336			122.8189	6.8000e-003		122.9617

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	16.0510				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0297		282.0721
Total	16.1104	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0297		282.0721

3.7 Architectural Coating - 2017

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	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		122.8189	122.8189	6.8000e-003		122.9617
Total	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		122.8189	122.8189	6.8000e-003		122.9617

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6838	4.5163	17.7686	0.0414	2.8256	0.0629	2.8884	0.7556	0.0579	0.8134		3,537.7009	3,537.7009	0.1478		3,540.8050
Unmitigated	1.7914	5.3263	20.3620	0.0499	3.4262	0.0754	3.5015	0.9162	0.0694	0.9855		4,267.9051	4,267.9051	0.1764		4,271.6084

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	472.15	472.15	472.15	1,613,408	1,330,570
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	472.15	472.15	472.15	1,613,408	1,330,570

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0137	0.1174	0.0514	7.5000e-004		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003		149.5696	149.5696	2.8700e-003	2.7400e-003	150.4799
NaturalGas Unmitigated	0.0155	0.1327	0.0580	8.5000e-004		0.0107	0.0107		0.0107	0.0107		169.0597	169.0597	3.2400e-003	3.1000e-003	170.0885

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
Health Club	39.2176	4.2000e-004	3.8400e-003	3.2300e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6138	4.6138	9.0000e-005	8.0000e-005	4.6419
Other Asphalt Surfaces	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
Apartments Mid Rise	1397.79	0.0151	0.1288	0.0548	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.4458	164.4458	3.1500e-003	3.0100e-003	165.4466
Total		0.0155	0.1327	0.0581	8.4000e-004		0.0107	0.0107		0.0107	0.0107		169.0597	169.0597	3.2400e-003	3.0900e-003	170.0885

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					
Health Club	0.0347266	3.7000e-004	3.4000e-003	2.8600e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		4.0855	4.0855	8.0000e-005	7.0000e-005	4.1104
Other Asphalt Surfaces	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
Apartments Mid Rise	1.23662	0.0133	0.1140	0.0485	7.3000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003		145.4841	145.4841	2.7900e-003	2.6700e-003	146.3695
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
Total		0.0137	0.1174	0.0514	7.5000e-004		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003		149.5696	149.5696	2.8700e-003	2.7400e-003	150.4799

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.1488	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156
Unmitigated	3.1488	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156

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	0.2639					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1862	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322		10.5907	10.5907	0.0107		10.8156
Total	3.1488	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156

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	0.2639					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1862	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322		10.5907	10.5907	0.0107		10.8156
Total	3.1488	0.0692	5.9373	3.1000e-004		0.0322	0.0322		0.0322	0.0322	0.0000	10.5907	10.5907	0.0107	0.0000	10.8156

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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
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10.0 Vegetation

Along Elk south of Project site

Record #	Date	Time	Duration	Run Time	Pause	LAeq	LAE	LASmin	LASmin Time	LASmax	LASmax Time	LApeak (max)	LApeak (max) Time	SPL 1 Count	Duration	SPL 2 Count	Duration	Peak 1 Count	Duration
1	2014/08/05	11:43:32	00:20:00.0	00:20:00.0	00:00:00.0	61.1	91.9	44.4	11:54:54	81.4	11:49:01	98.4	11:49:01	34	145.5	0	0.0	0	0.0
2	2014/08/05	12:03:32	00:01:02.4	00:01:00.5	00:00:01.9	63.6	81.4	48.7	12:04:31	73.0	12:04:08	87.4	12:04:08	3	15.5	0	0.0	0	0.0

Peak 2 Count	Duration	Peak 3 Count	Duration	LAS1.70	LAS8.30	LAS25.00	LAS33.30	LAS50.00	LAS90.00	SEA	LCeq	LAeq	LCeq - LAeq	LA1eq	LAeq	LA1eq-LAeq	# Overloads	Duration
0	0.0	0	0.0	70.1	65.4	59.5	57.0	53.4	48.2	-99.9	73.6	61.1	12.5	63.7	61.1	2.6	0	0.0
0	0.0	0	0.0	71.9	68.3	64.4	63.0	60.3	50.5	-99.9	73.3	63.6	9.7	66.4	63.6	2.8	0	0.0

Corner of W. Elk and S. Pacific Ave.

Record #	Date	Time	Duration	Run Time	Pause	LAeq	LAE	LASmin	LASmin Time	LASmax	LASmax Time	LApeak (max)	LApeak (max) Time	SPL 1 Count	Duration	SPL 2 Count	Duration	Peak 1 Count	Duration
1	2014/08/05	12:07:27	00:20:00.0	00:20:00.0	00:00:00.0	64.6	95.4	49.9	12:12:14	77.0	12:22:17	91.8	12:22:17	41	424.4	0	0.0	0	0.0
2	2014/08/05	12:27:27	00:01:01.8	00:01:01.8	00:00:00.0	66.7	84.6	55.7	12:27:43	78.1	12:27:34	91.3	12:27:33	2	19.3	0	0.0	0	0.0

Peak 2 Count	Duration	Peak 3 Count	Duration	LAS1.70	LAS8.30	LAS25.00	LAS33.30	LAS50.00	LAS90.00	SEA	LCeq	LAeq	LCeq - LAeq	LAeq	LAeq	LAeq-LAeq	# Overloads	Duration
0	0.0	0	0.0	71.8	68.3	65.1	64.1	62.5	56.6	-99.9	75.5	64.6	11.0	65.8	64.6	1.2	0	0.0
0	0.0	0	0.0	77.7	69.7	64.4	63.3	61.4	59.0	-99.9	77.2	66.7	10.5	68.2	66.7	1.5	0	0.0

APPENDIX 5.0

Alternative Calculations

Reduced Density Alternative

**Enclave Reduced Density Alternative
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	79.00	Space	0.00	0.00	0
Other Asphalt Surfaces	18.00	1000sqft	0.00	18,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	35.00	Dwelling Unit	0.72	54,563.00	91

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 50% density reduction alternative. Population is 2.6 res per unit

Construction Phase - Construction assumptions based on 50% density reduction

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating -

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	120.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	6.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.00
tblGrading	MaterialExported	0.00	18,500.00
tblLandUse	LandUseSquareFeet	31,600.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	35,000.00	54,563.00
tblLandUse	LotAcreage	0.71	0.00
tblLandUse	LotAcreage	0.41	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	0.92	0.72
tblLandUse	Population	100.00	91.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	32.66	12.58
tblSolidWaste	SolidWasteGenerationRate	4.33	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripNumber	2,818.00	0.00
tblTripsAndVMT	VendorTripNumber	8.00	9.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	53.00	54.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	4,625,935.82	2,036,571.00
tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2015	0.1278	1.1215	0.7354	9.3000e-004	0.0632	0.0796	0.1428	0.0285	0.0736	0.1021	0.0000	86.5898	86.5898	0.0218	0.0000	87.0469
2016	0.4911	1.6015	1.4428	2.3900e-003	0.1084	0.1024	0.2108	0.0417	0.0975	0.1391	0.0000	202.6642	202.6642	0.0323	0.0000	203.3434
Total	0.6189	2.7230	2.1782	3.3200e-003	0.1716	0.1820	0.3536	0.0701	0.1711	0.2412	0.0000	289.2540	289.2540	0.0541	0.0000	290.3902

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					
2015	0.0236	0.4391	0.6404	9.3000e-004	0.0296	0.0263	0.0559	0.0124	0.0263	0.0387	0.0000	86.5897	86.5897	0.0218	0.0000	87.0468
2016	0.3320	0.8760	1.3916	2.3900e-003	0.0806	0.0494	0.1300	0.0265	0.0493	0.0758	0.0000	202.6640	202.6640	0.0323	0.0000	203.3432
Total	0.3555	1.3151	2.0320	3.3200e-003	0.1102	0.0757	0.1859	0.0389	0.0756	0.1145	0.0000	289.2537	289.2537	0.0541	0.0000	290.3900

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	42.56	51.70	6.71	0.00	35.77	58.39	47.41	44.51	55.83	52.54	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	tons/yr										MT/yr					
Area	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Energy	1.4300e-003	0.0123	5.5200e-003	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	81.9029	81.9029	2.0300e-003	6.2000e-004	82.1391
Mobile	0.1660	0.5204	1.9939	4.5100e-003	0.3014	7.1300e-003	0.3085	0.0807	6.5600e-003	0.0873	0.0000	361.2570	361.2570	0.0154	0.0000	361.5813
Waste						0.0000	0.0000		0.0000	0.0000	2.5536	0.0000	2.5536	0.1509	0.0000	5.7228
Water						0.0000	0.0000		0.0000	0.0000	0.6461	13.4157	14.0618	0.0667	1.6400e-003	15.9709
Total	0.4704	0.5370	2.3666	4.6100e-003	0.3014	0.0101	0.3115	0.0807	9.5300e-003	0.0902	3.1997	457.1676	460.3674	0.2357	2.2600e-003	466.0189

**2.2 Overall Operational
Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	0.3030	4.2900e-003	0.3673	2.0000e-005	1.9800e-003	1.9800e-003	1.9800e-003	1.9800e-003	1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Energy	1.2700e-003	0.0109	4.8800e-003	7.0000e-005	8.8000e-004	8.8000e-004	8.8000e-004	8.8000e-004	8.8000e-004	8.8000e-004	0.0000	79.3996	79.3996	1.9800e-003	5.9000e-004	79.6239
Mobile	0.1554	0.4426	1.7381	3.7600e-003	5.9700e-003	0.2557	0.0669	5.4900e-003	0.0724	0.0000	300.8168	300.8168	300.8168	0.0130	0.0000	301.0898
Waste					0.0000	0.0000	0.0000	0.0000	1.2768	0.0000	0.0000	1.2768	0.0755	0.0000	0.0000	2.8614
Water					0.0000	0.0000	0.0000	0.0000	0.5169	0.0000	10.3600	10.8769	0.0534	1.3100e-003	12.4033	
Total	0.4597	0.4578	2.1103	3.8500e-003	0.2497	8.8300e-003	0.0669	8.3500e-003	0.0752	1.7937	391.1684	392.9621	0.1444	1.9000e-003	396.5833	

3.0 Construction Detail

Construction Phase

Percent Reduction	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
2.29	14.75	10.83	16.49	17.14	12.57	17.00	17.15	12.38	16.64	43.94	14.44	14.64	38.73	15.93	14.90	

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	10/5/2016	5	180	
5	Paving	Paving	10/6/2016	10/19/2016	5	10	
6	Architectural Coating	Architectural Coating	10/20/2016	12/28/2016	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 110,490; Residential Outdoor: 36,830; Non-Residential Indoor: 6,542; Non-Residential Outdoor: 2,181 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					9.5000e-003	0.0000	9.5000e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0177	0.1493	0.1102	1.5000e-004		0.0109	0.0109		0.0105	0.0105	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	0.0177	0.1493	0.1102	1.5000e-004	9.5000e-003	0.0109	0.0204	1.4400e-003	0.0105	0.0119	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734

3.2 Demolition - 2015
Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.0000e-005	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					3.7000e-003		0.0000	5.6000e-004		5.6000e-004	0.0000	0.0000	0.0000		0.0000	0.0000
Off-Road	3.3300e-003	0.0748	0.0995				5.0300e-003	5.0300e-003		5.0300e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	3.3300e-003	0.0748	0.0995		3.7000e-003		5.0300e-003	5.6000e-004		5.5900e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
tons/yr											MT/yr					

3.2 Demolition - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.0000e-005	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130
tons/yr											MT/yr					

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-003	0.0322	0.0167	2.0000e-005	1.9800e-003	1.9800e-003	1.9800e-003	1.8200e-003	1.8200e-003	1.8200e-003	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222
Total	3.2000e-003	0.0322	0.0167	2.0000e-005	1.9800e-003	1.9800e-003	1.9800e-003	1.8200e-003	1.8200e-003	1.8200e-003	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222
tons/yr											MT/yr					

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	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	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323	
	Total	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323	
tons/yr												MT/yr						

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	Off-Road	5.1000e-004	0.0105	0.0157	2.0000e-005	5.9000e-004	5.9000e-004	5.9000e-004	5.9000e-004	5.9000e-004	5.9000e-004	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222	
	Total	5.1000e-004	0.0105	0.0157	2.0000e-005	5.9000e-004	5.9000e-004	5.9000e-004	5.9000e-004	5.9000e-004	5.9000e-004	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222	
	tons/yr												MT/yr					

3.3 Site Preparation - 2015
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323
Total	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323
tons/yr											MT/yr					

3.4 Grading - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0456	0.0000	0.0456	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1027	0.9179	0.5487	6.3000e-004		0.0663	0.0663		0.0610	0.0610	0.0000	60.0363	60.0363	0.0179	0.0000	60.4127
Total	0.1027	0.9179	0.5487	6.3000e-004	0.0456	0.0663	0.1119	0.0249	0.0610	0.0859	0.0000	60.0363	60.0363	0.0179	0.0000	60.4127
tons/yr											MT/yr					

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933
Total	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0178	0.0000	0.0178	9.7000e-003	0.0000	9.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3317	0.4652	6.3000e-004			0.0203	0.0203		0.0203	0.0000	60.0362	60.0362	0.0179	0.0000	60.4126
Total	0.0155	0.3317	0.4652	6.3000e-004	0.0178	0.0203	0.0381	9.7000e-003	0.0203	0.0300	0.0000	60.0362	60.0362	0.0179	0.0000	60.4126
tons/yr											MT/yr					

3.4 Grading - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933
Total	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933
tons/yr											MT/yr					

3.4 Grading - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0456	0.0000	0.0456	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1645	0.1019	1.2000e-004	0.0118	0.0118	0.0118	0.0109	0.0109	0.0109	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2345
Total	0.0185	0.1645	0.1019	1.2000e-004	0.0456	0.0118	0.0574	0.0249	0.0109	0.0358	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2345
tons/yr											MT/yr					

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.1000e-004	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170
Total	4.1000e-004	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0178	0.0000	0.0178	9.7000e-003	0.0000	9.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0624	0.0875					3.8200e-003	3.8200e-003	3.8200e-003	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2344
Total	2.9100e-003	0.0624	0.0875	0.0178	0.0178	0.0000	0.0178	3.8200e-003	3.8200e-003	3.8200e-003	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2344
tons/yr											MT/yr					

3.4 Grading - 2016

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	4.1000e-004	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170
Total	4.1000e-004	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170

3.5 Building Construction - 2016

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	0.1645	1.2240	0.8164	1.2400e-003		0.0810	0.0810		0.0774	0.0774	0.0000	108.5631	108.5631	0.0237	0.0000	109.0615
Total	0.1645	1.2240	0.8164	1.2400e-003		0.0810	0.0810		0.0774	0.0774	0.0000	108.5631	108.5631	0.0237	0.0000	109.0615

3.5 Building Construction - 2016

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	7.2800e-003	0.0741	0.0963	1.8000e-004	4.9700e-003	1.1100e-003	6.0800e-003	1.4200e-003	1.0200e-003	2.4400e-003	0.0000	16.1258	16.1258	1.2000e-004	0.0000	16.1283
Worker	0.0212	0.0310	0.3233	6.8000e-004	0.0533	5.1000e-004	0.0538	0.0141	4.7000e-004	0.0146	0.0000	51.9670	51.9670	2.9500e-003	0.0000	52.0289
Total	0.0285	0.1051	0.4195	8.6000e-004	0.0582	1.6200e-003	0.0599	0.0156	1.4900e-003	0.0171	0.0000	68.0928	68.0928	3.0700e-003	0.0000	68.1573

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	0.0323	0.6507	0.7803	1.2400e-003		0.0403	0.0403		0.0403	0.0403	0.0000	108.5630	108.5630	0.0237	0.0000	109.0614
Total	0.0323	0.6507	0.7803	1.2400e-003		0.0403	0.0403		0.0403	0.0403	0.0000	108.5630	108.5630	0.0237	0.0000	109.0614

3.5 Building Construction - 2016
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2800e-003	0.0741	0.0963	1.8000e-004	4.9700e-003	1.1100e-003	6.0800e-003	1.4200e-003	1.0200e-003	2.4400e-003	0.0000	0.0000	16.1258	1.2000e-004	0.0000	16.1283
Worker	0.0212	0.0310	0.3233	6.8000e-004	0.0533	5.1000e-004	0.0538	0.0141	4.7000e-004	0.0146	0.0000	0.0000	51.9670	2.9500e-003	0.0000	52.0289
Total	0.0285	0.1051	0.4195	8.6000e-004	0.0582	1.6200e-003	0.0599	0.0156	1.4900e-003	0.0171	0.0000	0.0000	68.0928	3.0700e-003	0.0000	68.1573
tons/yr											MT/yr					

3.6 Paving - 2016
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	4.7100e-003	0.0459	0.0299	4.0000e-005	2.9700e-003	2.9700e-003	2.9700e-003	2.7400e-003	2.7400e-003	2.7400e-003	0.0000	0.0000	3.9704	3.9704	0.0000	3.9949
Paving	0.0000							0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.7100e-003	0.0459	0.0299	4.0000e-005	2.9700e-003	2.9700e-003	2.9700e-003	2.7400e-003	2.7400e-003	2.7400e-003	0.0000	0.0000	3.9704	3.9704	0.0000	3.9949
tons/yr											MT/yr					

3.6 Paving - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.5346	3.0000e-005	0.0000	0.5353
Total	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.5346	3.0000e-005	0.0000	0.5353
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	9.9000e-004	0.0212	0.0305	4.0000e-005	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	0.0000	0.0000	3.9704	1.1600e-003	0.0000	3.9949
Paving	0.0000				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	9.9000e-004	0.0212	0.0305	4.0000e-005	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	1.3100e-003	0.0000	0.0000	3.9704	1.1600e-003	0.0000	3.9949
tons/yr											MT/yr					

Mitigated Construction Off-Site

3.6 Paving - 2016

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.5346	3.0000e-005	0.0000	0.5353
Total	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.5346	3.0000e-005	0.0000	0.5353
tons/yr																
MT/yr																

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.2639				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2100e-003	0.0593	0.0471	7.0000e-005	4.9200e-003	4.9200e-003	4.9200e-003	4.9200e-003	4.9200e-003	4.9200e-003	0.0000	6.3831	6.3831	7.5000e-004	0.0000	6.3989
Total	0.2731	0.0593	0.0471	7.0000e-005	4.9200e-003	4.9200e-003	4.9200e-003	4.9200e-003	4.9200e-003	4.9200e-003	0.0000	6.3831	6.3831	7.5000e-004	0.0000	6.3989
tons/yr																
MT/yr																

**3.7 Architectural Coating - 2016
Unmitigated Construction Off-Site**

Category	tons/yr														MT/yr		
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4		N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Worker	1.2000e-003	1.7500e-003	0.0183	4.0000e-005	3.0100e-003	3.0400e-003	8.0000e-004	3.0000e-005	3.0000e-005	3.0400e-003	0.0000	8.3000e-004	2.9405	1.7000e-004	0.0000	2.9440	2.9440
Total	1.2000e-003	1.7500e-003	0.0183	4.0000e-005	3.0100e-003	3.0400e-003	8.0000e-004	3.0000e-005	3.0000e-005	3.0400e-003	0.0000	8.3000e-004	2.9405	1.7000e-004	0.0000	2.9440	2.9440

Mitigated Construction On-Site

Category	tons/yr														MT/yr		
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4		N2O	CO2e
Archit. Coating	0.2639				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0339	0.0458	7.0000e-005	2.3800e-003	2.3800e-003	2.3800e-003	2.3800e-003	2.3800e-003	2.3800e-003	0.0000	2.3800e-003	6.3831	7.5000e-004	0.0000	6.3989	6.3989
Total	0.2654	0.0339	0.0458	7.0000e-005	2.3800e-003	2.3800e-003	2.3800e-003	2.3800e-003	2.3800e-003	2.3800e-003	0.0000	2.3800e-003	6.3831	7.5000e-004	0.0000	6.3989	6.3989

3.7 Architectural Coating - 2016

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	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	0.0000
Worker	1.2000e-003	1.7500e-003	0.0183	4.0000e-005	3.0100e-003	3.0000e-005	3.0400e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	2.9405	2.9405	1.7000e-004	0.0000	2.9440	2.9440
Total	1.2000e-003	1.7500e-003	0.0183	4.0000e-005	3.0100e-003	3.0000e-005	3.0400e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	2.9405	2.9405	1.7000e-004	0.0000	2.9440	2.9440

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1554	0.4426	1.7381	3.7600e-003	0.2497	5.9700e-003	0.2557	0.0669	5.4900e-003	0.0724	0.0000	300.8168	300.8168	0.0130	0.0000	301.0898
Unmitigated	0.1660	0.5204	1.9939	4.5100e-003	0.3014	7.1300e-003	0.3085	0.0807	6.5600e-003	0.0873	0.0000	361.2570	361.2570	0.0154	0.0000	361.5813

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	232.75	232.75	232.75	795,342	658,985
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	232.75	232.75	232.75	795,342	658,985

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	66.8495	66.8495	1.7400e-003	3.6000e-004	66.9975
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	67.7178	67.7178	1.7600e-003	3.6000e-004	67.8677
NaturalGas Mitigated	1.2700e-003	0.0109	4.8800e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.5500	12.5500	2.4000e-004	2.3000e-004	12.6264
NaturalGas Unmitigated	1.4300e-003	0.0123	5.5200e-003	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	14.1851	14.1851	2.7000e-004	2.6000e-004	14.2714

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
Health Club	14314.4	8.0000e-005	7.0000e-004	5.9000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7639	0.7639	1.0000e-005	1.0000e-005	0.7685
Other Asphalt Surfaces	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
Apartments Mid Rise	251504	1.3600e-003	0.0116	4.9300e-003	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	13.4212	13.4212	2.6000e-004	2.5000e-004	13.5029
Total		1.4400e-003	0.0123	5.5200e-003	7.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	14.1851	14.1851	2.7000e-004	2.6000e-004	14.2714

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
Health Club	12675.2	7.0000e-005	6.2000e-004	5.2000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6764	0.6764	1.0000e-005	1.0000e-005	0.6805
Other Asphalt Surfaces	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
Apartments Mid Rise	222504	1.2000e-003	0.0103	4.3600e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	11.8736	11.8736	2.3000e-004	2.2000e-004	11.9459
Total		1.2700e-003	0.0109	4.8800e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.5500	12.5500	2.4000e-004	2.3000e-004	12.6264

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	124685	63.0786	1.6400e-003	3.4000e-004	63.2183
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	9170.05	4.6392	1.2000e-004	2.0000e-005	4.6495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		67.7178	1.7600e-003	3.6000e-004	67.8677

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	123282	62.3692	1.6200e-003	3.4000e-004	62.5072
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	8856.14	4.4804	1.2000e-004	2.0000e-005	4.4903
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		66.8495	1.7400e-003	3.6000e-004	66.9975

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Unmitigated	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048

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	0.0264					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0117	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Total	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048

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	0.0264					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0117	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Total	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

7.2 Water by Land Use
Unmitigated

Category		Total CO2	CH4	N2O	CO2e
Mitigated	10.8769	0.0534	1.3100e-003	12.4033	
Unmitigated	14.0618	0.0667	1.6400e-003	15.9709	
MT/yr					

Land Use		Mgal	Total CO2	CH4	N2O	CO2e
Indoor/Outdoor Use	2.03657 / 0	14.0618	0.0667	1.6400e-003	15.9709	
Apartments Mid Rise	0	14.0618	0.0667	1.6400e-003	15.9709	
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000	
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000	
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000	
Total		14.0618	0.0667	1.6400e-003	15.9709	

7.2 Water by Land Use
Mitigated

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr		
Apartments Mid Rise	1.62926 / 0	0.0534	1.3100e-003	12.4033
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000
Total		0.0534	1.3100e-003	12.4033

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

		Total CO2	CH4	N2O	CO2e
Mitigated	1.2768	0.0755	0.0000		2.8614
Unmitigated	2.5536	0.1509	0.0000		5.7228
		MT/yr			

8.2 Waste by Land Use
Unmitigated

		Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons					
Apartment's Mid Rise	12.58	2.5536	0.1509	0.0000		5.7228
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000		0.0000
Health Club	0	0.0000	0.0000	0.0000		0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000		0.0000
Total		2.5536	0.1509	0.0000		5.7228

8.2 Waste by Land Use
Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
Apartment's Mid Rise	6.29	1.2768	0.0755	2.8614
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000
Total		1.2768	0.0755	2.8614

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

Enclave Reduced Density Alternative
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	79.00	Space	0.00	0.00	0
Other Asphalt Surfaces	18.00	1000sqft	0.00	18,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	35.00	Dwelling Unit	0.72	54,563.00	91

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 50% density reduction alternative. Population is 2.6 res per unit

Construction Phase - Construction assumptions based on 50% density reduction

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating -

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	120.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	6.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.00
tblGrading	MaterialExported	0.00	18,500.00
tblLandUse	LandUseSquareFeet	31,600.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	35,000.00	54,563.00
tblLandUse	LotAcreage	0.71	0.00
tblLandUse	LotAcreage	0.41	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	0.92	0.72
tblLandUse	Population	100.00	91.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	32.66	12.58
tblSolidWaste	SolidWasteGenerationRate	4.33	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripNumber	2,818.00	0.00
tblTripsAndVMT	VendorTripNumber	8.00	9.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	53.00	54.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	4,625,935.82	2,036,571.00
tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2015	2.0834	18.2384	11.6291	0.0166	0.9452	1.3146	2.1855	0.4441	1.2094	1.6535	0.0000	1,647.968 3	1,647.968 3	0.3985	0.0000	1,656.336 5
2016	10.9744	17.3729	13.7321	0.0236	0.8709	1.2465	2.1174	0.4441	1.1468	1.5909	0.0000	2,191.540 5	2,191.540 5	0.3974	0.0000	2,199.886 2
Total	13.0577	35.6112	25.3612	0.0403	1.8161	2.5611	4.3029	0.8882	2.3562	3.2445	0.0000	3,839.508 7	3,839.508 7	0.7959	0.0000	3,856.222 7

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					
2015	0.3949	7.3677	9.9774	0.0166	0.4817	0.4255	0.9072	0.1913	0.4236	0.5947	0.0000	1,647.968 3	1,647.968 3	0.3985	0.0000	1,656.336 5
2016	10.6653	8.3204	13.3305	0.0236	0.6597	0.4653	1.1251	0.1913	0.4639	0.6399	0.0000	2,191.540 5	2,191.540 5	0.3974	0.0000	2,199.886 2
Total	11.0602	15.6880	23.3079	0.0403	1.1414	0.8908	2.0322	0.3826	0.8875	1.2346	0.0000	3,839.508 7	3,839.508 7	0.7959	0.0000	3,856.222 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	15.30	55.95	8.10	0.00	37.15	65.22	52.77	56.93	62.33	61.95	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.29	14.57	10.77	16.57	17.14	11.60	16.95	17.14	11.35	16.49	0.00	16.51	16.51	14.89	11.46	16.51

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	10/5/2016	5	180	
5	Paving	Paving	10/6/2016	10/19/2016	5	10	
6	Architectural Coating	Architectural Coating	10/20/2016	12/28/2016	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 110,490; Residential Outdoor: 36,830; Non-Residential Indoor: 6,542; Non-Residential Outdoor: 2,181 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.6386	1,200.6386	0.2451		1,205.7861
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404	320.1875	320.1875	2.5800e-003			320.2416
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	127.1422	127.1422	7.2600e-003			127.2945
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711	447.3297	447.3297	9.8400e-003			447.5362
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	0.2661	5.9808	7.9564	0.0120			0.4023		0.4023	0.4023	1,200.638	1,200.638	0.2451			1,205.786
Total	0.2661	5.9808	7.9564	0.0120	0.2964	0.4023	0.6987	0.0449	0.4023	0.4472	0.0000	1,200.638	1,200.638	0.2451		1,205.786
lb/day																

3.2 Demolition - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404		320.1875	320.1875	2.5800e-003		320.2416
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711		447.3297	447.3297	9.8400e-003		447.5362
lb/day																

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000
Off-Road	1.0667	10.7250	5.5547	7.0200e-003		0.6598	0.6598	0.6070	0.6070	0.6070		738.4156	738.4156	0.2205		743.0450
Total	1.0667	10.7250	5.5547	7.0200e-003	0.0000	0.6598	0.6598	0.6070	0.6070	0.6070		738.4156	738.4156	0.2205		743.0450
lb/day																

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			127.1422	7.2600e-003		127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			127.1422	7.2600e-003		127.2945
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1702	3.4901	5.2481	7.0200e-003		0.1968	0.1968		0.1968	0.1968			738.4156	0.2205		743.0450
Total	0.1702	3.4901	5.2481	7.0200e-003	0.0000	0.1968	0.1968	0.0000	0.1968	0.1968			738.4156	0.2205		743.0450
lb/day																

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	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		0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			127.1422	7.2600e-003		127.2945
Total		0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			127.1422	7.2600e-003		127.2945
lb/day																	

3.4 Grading - 2015

Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust		0.0000	0.0000	0.0000	0.0000	0.7591	0.0000	0.7591	0.4145	0.0000	0.4145	0.0000	0.0000	0.0000			0.0000
Off-Road		2.0341	18.1764	10.8645	0.0125		1.3135	1.3135		1.2084	1.2084	1,310.4692	1,310.4692	0.3912			1,318.6850
Total		2.0341	18.1764	10.8645	0.0125	0.7591	0.0000	0.7591	0.4145	1.2084	1.6229	1,310.4692	1,310.4692	0.3912			1,318.6850
lb/day																	

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			127.1422	7.2600e-003		127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307			127.1422	7.2600e-003		127.2945
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024			1,310.4692	0.3912		1,318.6850
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.4024	0.1616	0.4024	0.5640			1,310.4692	0.3912		1,318.6850
lb/day																

3.4 Grading - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	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	0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	127.1422	127.1422	127.1422	127.1422	7.2600e-003		127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	127.1422	127.1422	127.1422	127.1422	7.2600e-003		127.2945

3.4 Grading - 2016

Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day		lb/day															
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.7591	0.0000	0.7591	0.4145	0.0000	0.4145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9454	17.3168	10.7280	0.0125			1.2455	1.2455		1.1459	1.1459	1.295.359	1.295.359	1.295.359	0.3907		1.303.565
Total	1.9454	17.3168	10.7280	0.0125		0.7591	1.2455	2.0046	0.4145	1.1459	1.5603	1,295.359	1,295.359	1,295.359	0.3907		1,303.565

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	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
Worker	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306			122.9021	6.6900e-003		123.0426
Total	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306			122.9021	6.6900e-003		123.0426
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024			1,295.3598	0.3907		1,303.5651
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.4024	0.1616	0.4024	0.5640	0.0000	1,295.3598	1,295.3598	0.3907		1,303.5651
lb/day																

3.4 Grading - 2016

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	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003			123.0426
Total	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003			123.0426

3.5 Building Construction - 2016

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	1.8272	13.6002	9.0711	0.0138		0.9001	0.9001		0.8598	0.8598		1,329.6705	1,329.6705	0.2907			1,335.7748
Total	1.8272	13.6002	9.0711	0.0138		0.9001	0.9001		0.8598	0.8598		1,329.6705	1,329.6705	0.2907			1,335.7748

3.5 Building Construction - 2016

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	0.0758	0.7876	0.9150	1.9800e-003	0.0561	0.0123	0.0684	0.0160	0.0113	0.0273		198.1986	198.1986	1.4500e-003			198.2291
Worker	0.2405	0.3027	3.7460	7.8500e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653		663.6715	663.6715	0.0361			664.4302
Total	0.3163	1.0903	4.6610	9.8300e-003	0.6597	0.0180	0.6777	0.1761	0.0166	0.1926		861.8700	861.8700	0.0376			862.6593

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	0.3591	7.2301	8.6696	0.0138		0.4473	0.4473		0.4473	0.4473	0.0000	1,329.6704	1,329.6704	0.2907			1,335.7748
Total	0.3591	7.2301	8.6696	0.0138		0.4473	0.4473		0.4473	0.4473	0.0000	1,329.6704	1,329.6704	0.2907			1,335.7748

3.5 Building Construction - 2016
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0758	0.7876	0.9150	1.9800e-003	0.0561	0.0123	0.0684	0.0160	0.0113	0.0273	198.1986	198.1986	1.4500e-003			198.2291
Worker	0.2405	0.3027	3.7460	7.8500e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653	663.6715	663.6715	0.0361			664.4302
Total	0.3163	1.0903	4.6610	9.8300e-003	0.6597	0.0180	0.6777	0.1761	0.0166	0.1926	861.8700	861.8700	0.0376			862.6593

3.6 Paving - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.9428	9.1717	5.9832	8.5900e-003	0.5940	0.5940	0.5940	0.5474	0.5474	0.5474	875.3305	875.3305	0.2565			880.7178
Paving	0.0000							0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.9428	9.1717	5.9832	8.5900e-003	0.5940	0.5940	0.5940	0.5474	0.5474	0.5474	875.3305	875.3305	0.2565			880.7178

3.6 Paving - 2016

Unmitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling		0.0000	0.0000	0.0000	0.0000	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
Worker		0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306			122.9021	122.9021			123.0426
Total		0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306			122.9021	122.9021			123.0426
lb/day																		

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road		0.1981	4.2306	6.1067	8.5900e-003	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178
Paving		0.0000						0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total		0.1981	4.2306	6.1067	8.5900e-003	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178
lb/day																	

Mitigated Construction Off-Site

3.6 Paving - 2016

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	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		0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	122.9021	122.9021	122.9021	6.6900e-003		123.0426
Total		0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	122.9021	122.9021	122.9021	6.6900e-003		123.0426
lb/day																	

3.7 Architectural Coating - 2016
Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating		10.5569				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Off-Road		0.3685	2.3722	1.8839	2.9700e-003	0.1966	0.1966	0.1966	0.1966	0.1966	0.1966	281.4481	281.4481	281.4481	0.0332		282.1449
Total		10.9254	2.3722	1.8839	2.9700e-003	0.1966	0.1966	0.1966	0.1966	0.1966	0.1966	281.4481	281.4481	281.4481	0.0332		282.1449
lb/day																	

**3.7 Architectural Coating - 2016
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	135.1923	135.1923	135.1923	7.3600e-003		135.3469
Total	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337			135.1923	7.3600e-003		135.3469

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	10.5569				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449
Total	10.6163	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449

3.7 Architectural Coating - 2016

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	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		135.1923	135.1923	7.3600e-003		135.3469
Total	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		135.1923	135.1923	7.3600e-003		135.3469

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8556	2.2646	9.4524	0.0214	1.3990	0.0328	1.4318	0.3741	0.0301	0.4042		1,883.8010	1,883.8010	0.0788		1,885,4563
Unmitigated	0.9146	2.6589	10.9478	0.0257	1.6885	0.0392	1.7277	0.4515	0.0360	0.4875		2,262.4688	2,262.4688	0.0936		2,264,4347

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	232.75	232.75	232.75	795,342	658,985
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	232.75	232.75	232.75	795,342	658,985

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.9500e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3900e-003	76.2643
NaturalGas Unmitigated	7.8500e-003	0.0674	0.0303	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001

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
Health Club	39.2176	4.2000e-004	3.8400e-003	3.2300e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6138	4.6138	9.0000e-005	8.0000e-005	4.6419
Other Asphalt Surfaces	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
Apartments Mid Rise	689.051	7.4300e-003	0.0635	0.0270	4.1000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003		81.0649	81.0649	1.5500e-003	1.4900e-003	81.5582
Total		7.8500e-003	0.0673	0.0303	4.3000e-004		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001

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
Health Club	0.0347266	3.7000e-004	3.4000e-003	2.8600e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		4.0855	4.0855	8.0000e-005	7.0000e-005	4.1104
Other Asphalt Surfaces	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
Apartments Mid Rise	0.609599	6.5700e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7175	71.7175	1.3700e-003	1.3100e-003	72.1540
Total		6.9400e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3800e-003	76.2643

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Unmitigated	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

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	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0932	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158		5.2207	5.2207	5.3600e-003		5.3333
Total	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

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	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0932	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158		5.2207	5.2207	5.3600e-003		5.3333
Total	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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
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10.0 Vegetation

**Enclave Reduced Density Alternative
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	79.00	Space	0.00	0.00	0
Other Asphalt Surfaces	18.00	1000sqft	0.00	18,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	35.00	Dwelling Unit	0.72	54,563.00	91

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 50% density reduction alternative. Population is 2.6 res per unit

Construction Phase - Construction assumptions based on 50% density reduction

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating -

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	120.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	6.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.00
tblGrading	MaterialExported	0.00	18,500.00
tblLandUse	LandUseSquareFeet	31,600.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	35,000.00	54,563.00
tblLandUse	LotAcreage	0.71	0.00
tblLandUse	LotAcreage	0.41	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	0.92	0.72
tblLandUse	Population	100.00	91.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	32.66	12.58
tblSolidWaste	SolidWasteGenerationRate	4.33	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripNumber	2,818.00	0.00
tblTripsAndVMT	VendorTripNumber	8.00	9.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	53.00	54.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	4,625,935.82	2,036,571.00
tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2015	2.0855	18.2451	11.5849	0.0166	0.9452	1.3146	2.1855	0.4441	1.2094	1.6535	0.0000	1,640.2097	1,640.2097	0.3985	0.0000	1,648.5779
2016	10.9763	17.3790	13.7026	0.0232	0.8709	1.2465	2.1174	0.4441	1.1468	1.5909	0.0000	2,152.6401	2,152.6401	0.3974	0.0000	2,160.9859
Total	13.0618	35.6241	25.2875	0.0397	1.8161	2.5611	4.3029	0.8882	2.3562	3.2445	0.0000	3,792.8498	3,792.8498	0.7959	0.0000	3,809.5638

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					
2015	0.4014	7.4219	9.9332	0.0166	0.4817	0.4255	0.9072	0.1913	0.4237	0.5947	0.0000	1,640.2097	1,640.2097	0.3985	0.0000	1,648.5779
2016	10.6673	8.3731	13.3010	0.0232	0.6597	0.4655	1.1252	0.1913	0.4640	0.6401	0.0000	2,152.6401	2,152.6401	0.3974	0.0000	2,160.9859
Total	11.0687	15.7950	23.2342	0.0397	1.1414	0.8910	2.0324	0.3826	0.8877	1.2347	0.0000	3,792.8498	3,792.8498	0.7959	0.0000	3,809.5638

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	15.26	55.66	8.12	0.00	37.15	65.21	52.77	56.93	62.33	61.94	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	1.6896	0.0344	2.9380	1.5000e-004	0.0158	0.0158	0.0158	0.0158	0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Energy	7.8500e-003	0.0674	0.0303	4.3000e-004	5.4300e-003	5.4300e-003	5.4300e-003	5.4300e-003	5.4300e-003	5.4300e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001
Mobile	0.9594	2.8053	10.8941	0.0245	1.6885	0.0393	1.7278	0.4515	0.0362	0.4876		2,163.098	2,163.098	0.0937		2,165.065
Total	2.6569	2.9070	13.8624	0.0251	1.6885	0.0606	1.7491	0.4515	0.0574	0.5089	0.0000	2,253.997	2,253.997	0.1007	1.5700e-003	2,256.598

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	1.6896	0.0344	2.9380	1.5000e-004	0.0158	0.0158	0.0158	0.0158	0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Energy	6.9500e-003	0.0596	0.0268	3.8000e-004	4.8000e-003	4.8000e-003	4.8000e-003	4.8000e-003	4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3900e-003	76.2643
Mobile	0.9018	2.3866	9.5227	0.0204	1.3990	0.0329	1.4319	0.3741	0.0303	0.4043		1,801.102	1,801.102	0.0789		1,802.759
Total	2.5984	2.4806	12.4874	0.0210	1.3990	0.0536	1.4526	0.3741	0.0509	0.4250	0.0000	1,882.126	1,882.126	0.0857	1.3900e-003	1,884.356

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.20	14.67	9.92	16.53	17.14	11.59	16.95	17.14	11.32	16.49	0.00	16.50	16.50	14.88	11.46	16.50

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	10/5/2016	5	180	
5	Paving	Paving	10/6/2016	10/19/2016	5	10	
6	Architectural Coating	Architectural Coating	10/20/2016	12/28/2016	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 110,490; Residential Outdoor: 36,830; Non-Residential Indoor: 6,542; Non-Residential Outdoor: 2,181 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.6386	1,200.6386	0.2451		1,205.7861
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405	319.5604	319.5604	2.6000e-003	319.6150		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
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	7.2600e-003	120.1631		0.0000
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711	439.5711	439.5711	9.8600e-003	439.7782		0.0000

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	0.2661	5.9808	7.9564	0.0120		0.4023	0.4023		0.4023	0.4023	1,200.638	1,200.638	0.2451			1,205.786
Total	0.2661	5.9808	7.9564	0.0120	0.2964	0.4023	0.6987	0.0449	0.4023	0.4472	0.0000	1,200.638	1,200.638	0.2451		1,205.786

3.2 Demolition - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405	319.5604	319.5604	2.6000e-003			319.6150
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	7.2600e-003			120.1631
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711	439.5711	439.5711	9.8600e-003			439.7782

3.3 Site Preparation - 2015
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0667	10.7250	5.5547	7.0200e-003		0.6598	0.6598		0.6598	0.6070	738.4156	738.4156	0.2205			743.0450
Total	1.0667	10.7250	5.5547	7.0200e-003	0.0000	0.6598	0.6598	0.0000	0.6598	0.6070	738.4156	738.4156	0.2205			743.0450

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	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
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000				0.0000
Off-Road	0.1702	3.4901	5.2481	7.0200e-003		0.1968	0.1968		0.1968	0.1968		738.4156	738.4156	0.2205		743.0450
Total	0.1702	3.4901	5.2481	7.0200e-003	0.0000	0.1968	0.1968	0.0000	0.1968	0.1968	0.0000	738.4156	738.4156	0.2205		743.0450

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003		120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003		120.1631
lb/day																

3.4 Grading - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.7591	0.0000	0.7591	0.4145	0.0000	0.4145			0.0000			0.0000
Off-Road	2.0341	18.1764	10.8645	0.0125		1.3135	1.3135		1.2084	1.2084	1,310.4692	1,310.4692	1,310.4692	0.3912		1,318.6850
Total	2.0341	18.1764	10.8645	0.0125	0.7591	1.3135	2.0726	0.4145	1.2084	1.6229	1,310.4692	1,310.4692	1,310.4692	0.3912		1,318.6850
lb/day																

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003		120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003		120.1631
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024	0.0000	1,310.4692	1,310.4692	0.3912		1,318.6850
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.4024	0.1616	0.4024	0.5640	0.0000	1,310.4692	1,310.4692	0.3912		1,318.6850
lb/day																

3.4 Grading - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	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	0.0000	0.0000
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003			120.1631	
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003			120.1631	

3.4 Grading - 2016

Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
lb/day																		
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.7591	0.0000	0.7591	0.4145	0.0000	0.4145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9454	17.3168	10.7280	0.0125	1.2455	1.2455	1.2455	1.1459	1.1459	1.1459	1.1459	1.295.359	1.295.359	1.295.359	0.3907		1.303.565	
Total	1.9454	17.3168	10.7280	0.0125	1.2455	0.7591	1.2455	2.0046	0.4145	1.1459	1.5603	1.295.359	1.295.359	1.295.359	0.3907		1.303.565	

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003	116.1436	116.1436
Total	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003	116.1436	116.1436
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024	1,295.3598	1,295.3598	1,295.3598	0.3907		1,303.5651
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.4024	0.1616	0.4024	0.5640	0.0000	1,295.3598	1,295.3598	0.3907		1,303.5651
lb/day																

3.4 Grading - 2016

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	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003			116.1436
Total	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003			116.1436

3.5 Building Construction - 2016

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	1.8272	13.6002	9.0711	0.0138		0.9001	0.9001		0.8598	0.8598		1,329.6705	1,329.6705	0.2907			1,335.7748
Total	1.8272	13.6002	9.0711	0.0138		0.9001	0.9001		0.8598	0.8598		1,329.6705	1,329.6705	0.2907			1,335.7748

3.5 Building Construction - 2016

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	0.0837	0.8074	1.1140	1.9600e-003	0.0561	0.0124	0.0686	0.0160	0.0114	0.0274		196.5529	196.5529	1.5000e-003			196.5843
Worker	0.2502	0.3357	3.5174	7.4100e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653		626.4168	626.4168	0.0361			627.1755
Total	0.3339	1.1430	4.6315	9.3700e-003	0.6597	0.0182	0.6779	0.1761	0.0167	0.1927		822.9697	822.9697	0.0376			823.7598

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	0.3591	7.2301	8.6696	0.0138		0.4473	0.4473		0.4473	0.4473	0.0000	1,329.6704	1,329.6704	0.2907			1,335.7748
Total	0.3591	7.2301	8.6696	0.0138		0.4473	0.4473		0.4473	0.4473	0.0000	1,329.6704	1,329.6704	0.2907			1,335.7748

3.5 Building Construction - 2016
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0837	0.8074	1.1140	1.9600e-003	0.0561	0.0124	0.0686	0.0160	0.0114	0.0274	196.5529	196.5529	1.5000e-003			196.5843
Worker	0.2502	0.3357	3.5174	7.4100e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653	626.4168	626.4168	0.0361			627.1755
Total	0.3339	1.1430	4.6315	9.3700e-003	0.6597	0.0182	0.6779	0.1761	0.0167	0.1927		822.9697	822.9697	0.0376		823.7598
lb/day																

3.6 Paving - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.9428	9.1717	5.9832	8.5900e-003	0.5940	0.5940	0.5940	0.5474	0.5474	0.5474	875.3305	875.3305	0.2565			880.7178
Paving	0.0000							0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.9428	9.1717	5.9832	8.5900e-003	0.5940	0.5940	0.5940	0.5474	0.5474	0.5474	875.3305	875.3305	0.2565			880.7178
lb/day																

3.6 Paving - 2016

Unmitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling		0.0000	0.0000	0.0000	0.0000	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
Worker		0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003			116.1436
Total		0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003			116.1436
lb/day																		

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road		0.1981	4.2306	6.1067	8.5900e-003	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.0000	875.3305	875.3305	0.2565			880.7178
Paving		0.0000						0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Total		0.1981	4.2306	6.1067	8.5900e-003	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613	0.0000	875.3305	875.3305	0.2565			880.7178
lb/day																		

Mitigated Construction Off-Site

3.6 Paving - 2016

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306	116.0031	116.0031	116.0031	6.6900e-003		116.1436	116.1436
lb/day																
Category																
Hauling																
Vendor																
Worker																
Total																

3.7 Architectural Coating - 2016
Unmitigated Construction On-Site

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
10.5569				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000
0.3685	2.3722	1.8839	2.9700e-003	0.1966	0.1966	0.1966	0.1966	0.1966	0.1966	281.4481	281.4481	281.4481	0.0332		282.1449	282.1449
lb/day																
Category																
Archit. Coating																
Off-Road																
Total																

**3.7 Architectural Coating - 2016
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	127.6034	127.6034	127.6034	7.3600e-003		127.7580
Total	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337	127.6034	127.6034	127.6034	7.3600e-003		127.7580
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	10.5569				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449
Total	10.6163	1.3570	1.8324	2.9700e-003	0.0000	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449
lb/day																

3.7 Architectural Coating - 2016

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	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		127.6034	127.6034	7.3600e-003		127.7580
Total	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		127.6034	127.6034	7.3600e-003		127.7580

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9018	2.3866	9.5227	0.0204	1.3990	0.0329	1.4319	0.3741	0.0303	0.4043		1,801.1026	1,801.1026	0.0789		1,802.7593
Unmitigated	0.9594	2.8053	10.8941	0.0245	1.6885	0.0393	1.7278	0.4515	0.0362	0.4876		2,163.0982	2,163.0982	0.0937		2,165.0654

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	232.75	232.75	232.75	795,342	658,985
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	232.75	232.75	232.75	795,342	658,985

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.9500e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3900e-003	76.2643
NaturalGas Unmitigated	7.8500e-003	0.0674	0.0303	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001

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	689.051	7.4300e-003	0.0635	0.0270	4.1000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003		81.0649	81.0649	1.5500e-003	1.4900e-003	81.5582
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
Health Club	39.2176	4.2000e-004	3.8400e-003	3.2300e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6138	4.6138	9.0000e-005	8.0000e-005	4.6419
Other Asphalt Surfaces	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		7.8500e-003	0.0673	0.0303	4.3000e-004		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001

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
Health Club	0.0347266	3.7000e-004	3.4000e-003	2.8600e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		4.0855	4.0855	8.0000e-005	7.0000e-005	4.1104
Other Asphalt Surfaces	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
Apartments Mid Rise	0.609599	6.5700e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7175	71.7175	1.3700e-003	1.3100e-003	72.1540
Total		6.9400e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3800e-003	76.2643

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Unmitigated	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

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	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0932	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158		5.2207	5.2207	5.3600e-003		5.3333
Total	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

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	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0932	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158		5.2207	5.2207	5.3600e-003		5.3333
Total	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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
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10.0 Vegetation

**Enclave Nonresidential Alternative
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	308.00	Space	0.00	0.00	0
Other Asphalt Surfaces	72.00	1000sqft	0.00	72,000.00	0
Medical Office Building	40.00	1000sqft	0.36	40,000.00	0
General Office Building	40.00	1000sqft	0.36	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per nonresidential alternative description

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills.

Demolition -

Grading - Per site plan

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Water And Wastewater - Indoor water use includes general and medical office buildings, all outdoor/landscaping, fitness center. See Utilities section of Alternatives

Solid Waste - See Utilities section of Alternatives. Solid waste calculation includes general and medical office

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	1.00	6.00
tblGrading	AcresOfGrading	0.00	0.72
tblGrading	AcresOfGrading	3.00	0.72
tblGrading	MaterialExported	0.00	50,000.00
tblLandUse	LandUseSquareFeet	123,200.00	0.00
tblLandUse	LotAcreage	2.77	0.00
tblLandUse	LotAcreage	1.65	0.00
tblLandUse	LotAcreage	0.92	0.36
tblLandUse	LotAcreage	0.92	0.36
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	37.20	56.00
tblSolidWaste	SolidWasteGenerationRate	432.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00

tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblWater	IndoorWaterUseRate	7,109,349.92	7,299,072.00
tblWater	IndoorWaterUseRate	5,019,221.50	0.00
tblWater	OutdoorWaterUseRate	4,357,343.50	0.00
tblWater	OutdoorWaterUseRate	956,042.19	0.00

2.0 Emissions Summary

2.1 Overall Construction
Unmitigated Construction

Year	tons/yr														MT/yr	
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2015	0.1656	1.8784	1.3502	3.1100e-003	0.1361	0.0811	0.2171	0.0500	0.0765	0.1265	0.0000	284.8116	284.8116	0.0225	0.0000	285.2848
2016	0.4377	2.8916	2.6995	4.8000e-003	0.1971	0.1659	0.3629	0.0671	0.1591	0.2262	0.0000	409.7684	409.7684	0.0531	0.0000	410.8828
2017	1.8298	0.4397	0.4380	7.4000e-004	0.0167	0.0281	0.0448	4.4700e-003	0.0271	0.0315	0.0000	61.2643	61.2643	9.0900e-003	0.0000	61.4552
Total	2.4331	5.2097	4.4877	8.6500e-003	0.3498	0.2750	0.6248	0.1215	0.2627	0.3843	0.0000	755.8443	755.8443	0.0847	0.0000	757.6228

Mitigated Construction

Year	tons/yr														MT/yr	
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2015	0.0832	1.4099	1.3181	3.1100e-003	0.0953	0.0471	0.1424	0.0308	0.0456	0.0764	0.0000	284.8115	284.8115	0.0225	0.0000	285.2847
2016	0.1493	2.0197	2.5452	4.8000e-003	0.1623	0.0968	0.2591	0.0487	0.0957	0.1444	0.0000	409.7681	409.7681	0.0531	0.0000	410.8826
2017	1.7830	0.2939	0.4209	7.4000e-004	0.0167	0.0168	0.0335	4.4700e-003	0.0167	0.0212	0.0000	61.2643	61.2643	9.0900e-003	0.0000	61.4551
Total	2.0155	3.7234	4.2841	8.6500e-003	0.2742	0.1607	0.4349	0.0840	0.1580	0.2420	0.0000	755.8439	755.8439	0.0847	0.0000	757.6224

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	17.17	28.53	4.54	0.00	21.61	41.57	30.39	30.90	39.86	37.03	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	tons/yr										MT/yr					
Area	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Energy	4.7100e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	634.7255	634.7255	0.0162	4.0200e-003	636.3113
Mobile	0.8690	2.4709	9.6008	0.0224	1.4814	0.0335	1.5149	0.3968	0.0309	0.4276	0.0000	1,736.8762	1,736.8762	0.0718	0.0000	1,738.3829
Waste						0.0000	0.0000		0.0000	0.0000	11.3675	0.0000	11.3675	0.6718	0.0000	25.4753
Water						0.0000	0.0000		0.0000	0.0000	2.3157	48.0818	50.3975	0.2391	5.8700e-003	57.2395
Total	1.5996	2.5138	9.6428	0.0227	1.4814	0.0368	1.5182	0.3968	0.0342	0.4309	13.6832	2,419.6950	2,433.3781	0.9989	9.8900e-003	2,457.4211

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	2/29/2016	5	143	
4	Building Construction	Building Construction	3/1/2016	2/13/2017	5	250	
5	Paving	Paving	2/14/2017	2/28/2017	5	11	
6	Architectural Coating	Architectural Coating	3/1/2017	5/31/2017	5	66	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 228,000; Non-Residential Outdoor: 76,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Excavators	1	6.00	162	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Building Construction	Welders	3	8.00	46	0.45
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,250.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	56.00	25.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					9.5000e-003	0.0000	9.5000e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0177	0.1493	0.1102	1.5000e-004		0.0109	0.0109		0.0105	0.0105	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	0.0177	0.1493	0.1102	1.5000e-004	9.5000e-003	0.0109	0.0204	1.4400e-003	0.0105	0.0119	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734

3.2 Demolition - 2015

Unmitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																	
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.8000e-004	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130
MT/yr																	

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																	
Fugitive Dust					3.7000e-003			3.7000e-003	5.6000e-004		5.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1300e-003	0.0795	0.0997	1.5000e-004			5.4400e-003		5.3800e-003		5.3800e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	4.1300e-003	0.0795	0.0997	1.5000e-004	3.7000e-003	5.4400e-003	9.1400e-003	5.6000e-004	5.3800e-003	5.9400e-003	5.9400e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
MT/yr																	

3.2 Demolition - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																	
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.8000e-004	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130
MT/yr																	

3.3 Site Preparation - 2015
Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																	
Fugitive Dust						3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2700e-003	0.0429	0.0222	3.0000e-005	2.6400e-003		2.4300e-003	2.4300e-003			2.4300e-003	0.0000	2.6795	2.6795	8.0000e-004	0.0000	2.6963
Total	4.2700e-003	0.0429	0.0222	3.0000e-005	2.6400e-003	3.8000e-004	2.6400e-003	3.0200e-003	4.0000e-005	2.4300e-003	2.4700e-003	0.0000	2.6795	2.6795	8.0000e-004	0.0000	2.6963
MT/yr																	

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.1000e-004	1.1000e-003	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1659	0.1659	1.0000e-005	0.0000	0.1661
Total	7.0000e-005	1.1000e-004	1.1000e-003	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1659	0.1659	1.0000e-005	0.0000	0.1661
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1000e-004	0.0147	0.0210	3.0000e-005	8.5000e-004	8.5000e-004	8.5000e-004	8.4000e-004	8.4000e-004	8.4000e-004	0.0000	2.6795	2.6795	8.0000e-004	0.0000	2.6963
Total	8.1000e-004	0.0147	0.0210	3.0000e-005	1.5000e-004	8.5000e-004	1.0000e-003	2.0000e-005	8.4000e-004	8.6000e-004	0.0000	2.6795	2.6795	8.0000e-004	0.0000	2.6963
tons/yr											MT/yr					

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.1000e-004	1.1000e-003	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1659	0.1659	1.0000e-005	0.0000	0.1661
Total	7.0000e-005	1.1000e-004	1.1000e-003	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1659	0.1659	1.0000e-005	0.0000	0.1661
tons/yr											MT/yr					

3.4 Grading - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust				0.0570	0.0000	0.0570	0.0301	0.0000	0.0000	0.0301	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0871	0.7873	0.5754	8.1000e-004	0.0533	0.0533	0.0533	0.0506	0.0506	0.0506	0.0000	74.0933	74.0933	0.0169	0.0000	74.4488
Total	0.0871	0.7873	0.5754	8.1000e-004	0.0533	0.0533	0.0533	0.0506	0.0506	0.0301	0.0000	74.0933	74.0933	0.0169	0.0000	74.4488
tons/yr											MT/yr					

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0517	0.8758	0.5725	1.9700e-003	0.0596	0.138	0.0734	0.0159	0.0127	0.0287	0.0000	181.9849	181.9849	1.4700e-003	0.0000	182.0158
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1800e-003	4.6300e-003	0.0483	9.0000e-005	7.1900e-003	7.0000e-005	7.2700e-003	1.9100e-003	7.0000e-005	1.9800e-003	0.0000	7.2622	7.2622	4.3000e-004	0.0000	7.2713
Total	0.0549	0.8805	0.6208	2.0600e-003	0.0667	0.139	0.0807	0.0178	0.0128	0.0306	0.0000	189.2472	189.2472	1.9000e-003	0.0000	189.2872
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0222	0.0000	0.0222	0.0117	0.0000	0.0117	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0216	0.4167	0.5549	8.1000e-004	0.0266	0.0266	0.0266	0.0264	0.0264	0.0264	0.0000	74.0932	74.0932	0.0169	0.0000	74.4487
Total	0.0216	0.4167	0.5549	8.1000e-004	0.0222	0.0266	0.0488	0.0117	0.0264	0.0381	0.0000	74.0932	74.0932	0.0169	0.0000	74.4487
tons/yr											MT/yr					

3.4 Grading - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0517	0.8758	0.5725	1.9700e-003	0.0596	0.138	0.0734	0.0159	0.0127	0.0287	0.0000	181.9849	181.9849	1.4700e-003	0.0000	182.0158
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1800e-003	4.6300e-003	0.0483	9.0000e-005	7.1900e-003	7.0000e-005	7.2700e-003	1.9100e-003	7.0000e-005	1.9800e-003	0.0000	7.2622	7.2622	4.3000e-004	0.0000	7.2713
Total	0.0549	0.8805	0.6208	2.0600e-003	0.0667	0.139	0.0807	0.0178	0.0128	0.0306	0.0000	189.2472	189.2472	1.9000e-003	0.0000	189.2872
tons/yr											MT/yr					

3.4 Grading - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0570	0.0000	0.0570	0.0301	0.0000	0.0301	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0337	0.3058	0.2368	3.4000e-004			0.0203	0.0193	0.0193	0.0193	0.0000	30.5967	30.5967	6.9200e-003	0.0000	30.7419
Total	0.0337	0.3058	0.2368	3.4000e-004	0.0570	0.0000	0.0570	0.0301	0.0193	0.0493	0.0000	30.5967	30.5967	6.9200e-003	0.0000	30.7419
tons/yr											MT/yr					

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0189	0.3215	0.2207	8.2000e-004	0.0531	4.5700e-003	0.0576	0.0136	4.2000e-003	0.0178	0.0000	74.8414	74.8414	5.5000e-004	0.0000	74.8530
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1900e-003	1.7400e-003	0.0182	4.0000e-005	2.9900e-003	3.0000e-005	3.0200e-003	7.9000e-004	3.0000e-005	8.2000e-004	0.0000	2.9191	2.9191	1.7000e-004	0.0000	2.9226
Total	0.0201	0.3233	0.2389	8.6000e-004	0.0561	4.6000e-003	0.0607	0.0144	4.2300e-003	0.0186	0.0000	77.7606	77.7606	7.2000e-004	0.0000	77.7756
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0222	0.0000	0.0222	0.0117	0.0000	0.0117	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8900e-003	0.1725	0.2307	3.4000e-004		0.0110	0.0110		0.0109	0.0109	0.0000	30.5966	30.5966	6.9200e-003	0.0000	30.7419
Total	8.8900e-003	0.1725	0.2307	3.4000e-004	0.0222	0.0110	0.0332	0.0117	0.0109	0.0226	0.0000	30.5966	30.5966	6.9200e-003	0.0000	30.7419
tons/yr											MT/yr					

3.4 Grading - 2016

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	0.0189	0.3215	0.2207	8.2000e-004	0.0531	4.5700e-003	0.0576	0.0136	4.2000e-003	0.0178	0.0000	74.8414	74.8414	5.5000e-004	0.0000	74.8530
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1900e-003	1.7400e-003	0.0182	4.0000e-005	2.9900e-003	3.0000e-005	3.0200e-003	7.9000e-004	3.0000e-005	8.2000e-004	0.0000	2.9191	2.9191	1.7000e-004	0.0000	2.9226
Total	0.0201	0.3233	0.2389	8.6000e-004	0.0561	4.6000e-003	0.0607	0.0144	4.2300e-003	0.0186	0.0000	77.7606	77.7606	7.2000e-004	0.0000	77.7756

3.5 Building Construction - 2016

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	0.3325	1.9730	1.4907	2.1500e-003		0.1365	0.1365		0.1316	0.1316	0.0000	181.3437	181.3437	0.0413	0.0000	182.2112
Total	0.3325	1.9730	1.4907	2.1500e-003		0.1365	0.1365		0.1316	0.1316	0.0000	181.3437	181.3437	0.0413	0.0000	182.2112

3.5 Building Construction - 2016

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	0.0246	0.2505	0.3253	6.0000e-004	0.0168	3.7600e-003	0.0206	4.7900e-003	3.4600e-003	8.2500e-003	0.0000	54.4993	54.4993	4.1000e-004	0.0000	54.5078
Worker	0.0268	0.0391	0.4079	8.5000e-004	0.0672	6.5000e-004	0.0678	0.0179	6.0000e-004	0.0184	0.0000	65.5682	65.5682	3.7200e-003	0.0000	65.6464
Total	0.0514	0.2896	0.7332	1.4500e-003	0.0840	4.4100e-003	0.0884	0.0226	4.0600e-003	0.0267	0.0000	120.0675	120.0675	4.1300e-003	0.0000	120.1542

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	0.0689	1.2343	1.3424	2.1500e-003		0.0768	0.0768		0.0765	0.0765	0.0000	181.3435	181.3435	0.0413	0.0000	182.2110
Total	0.0689	1.2343	1.3424	2.1500e-003		0.0768	0.0768		0.0765	0.0765	0.0000	181.3435	181.3435	0.0413	0.0000	182.2110

3.5 Building Construction - 2016

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	0.0246	0.2505	0.3253	6.0000e-004	0.0168	3.7600e-003	0.0206	4.7900e-003	3.4600e-003	8.2500e-003	0.0000	54.4993	54.4993	4.1000e-004	0.0000	54.5078
Worker	0.0268	0.0391	0.4079	8.5000e-004	0.0672	6.5000e-004	0.0678	0.0179	6.0000e-004	0.0184	0.0000	65.5682	65.5682	3.7200e-003	0.0000	65.6464
Total	0.0514	0.2896	0.7332	1.4500e-003	0.0840	4.4100e-003	0.0884	0.0226	4.0600e-003	0.0267	0.0000	120.0675	120.0675	4.1300e-003	0.0000	120.1542

3.5 Building Construction - 2017

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	0.0423	0.2609	0.2058	3.0000e-004		0.0174	0.0174		0.0168	0.0168	0.0000	25.5043	25.5043	5.5500e-003	0.0000	25.6207
Total	0.0423	0.2609	0.2058	3.0000e-004		0.0174	0.0174		0.0168	0.0168	0.0000	25.5043	25.5043	5.5500e-003	0.0000	25.6207

3.5 Building Construction - 2017

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	3.1800e-003	0.0323	0.0436	8.0000e-005	2.3800e-003	4.7000e-004	2.8500e-003	6.8000e-004	4.4000e-004	1.1100e-003	0.0000	7.5913	7.5913	6.0000e-005	0.0000	7.5924
Worker	3.4000e-003	5.0100e-003	0.0522	1.2000e-004	9.5100e-003	9.0000e-005	9.6000e-003	2.5300e-003	8.0000e-005	2.6100e-003	0.0000	8.9335	8.9335	4.9000e-004	0.0000	8.9438
Total	6.5800e-003	0.0373	0.0957	2.0000e-004	0.0119	5.6000e-004	0.0125	3.2100e-003	5.2000e-004	3.7200e-003	0.0000	16.5248	16.5248	5.5000e-004	0.0000	16.5362

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	9.7000e-003	0.1742	0.1900	3.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	25.5043	25.5043	5.5500e-003	0.0000	25.6207
Total	9.7000e-003	0.1742	0.1900	3.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	25.5043	25.5043	5.5500e-003	0.0000	25.6207

3.5 Building Construction - 2017
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1800e-003	0.0323	0.0436	8.0000e-005	2.3800e-003	4.7000e-004	2.8500e-003	6.8000e-004	4.4000e-004	1.1100e-003	0.0000	0.0000	7.5913	6.0000e-005	0.0000	7.5924
Worker	3.4000e-003	5.0100e-003	0.0522	1.2000e-004	9.5100e-003	9.0000e-005	9.6000e-003	2.5300e-003	8.0000e-005	2.6100e-003	0.0000	0.0000	8.9335	4.9000e-004	0.0000	8.9438
Total	6.5800e-003	0.0373	0.0957	2.0000e-004	0.0119	5.6000e-004	0.0125	3.2100e-003	5.2000e-004	3.7200e-003	0.0000	0.0000	16.5248	5.5000e-004	0.0000	16.5362
tons/yr											MT/yr					

3.6 Paving - 2017

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	6.9500e-003	0.0669	0.0487	7.0000e-005	4.3800e-003	4.3800e-003	4.3800e-003	4.0400e-003	4.0400e-003	4.0400e-003	0.0000	0.0000	6.3376	1.8700e-003	0.0000	6.3768
Paving	0.0000				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	6.9500e-003	0.0669	0.0487	7.0000e-005	4.3800e-003	4.3800e-003	4.3800e-003	4.0400e-003	4.0400e-003	4.0400e-003	0.0000	0.0000	6.3376	1.8700e-003	0.0000	6.3768
tons/yr											MT/yr					

3.6 Paving - 2017

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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-004	4.1000e-004	4.3000e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7359	0.7359	4.0000e-005	0.0000	0.7367
Total	2.8000e-004	4.1000e-004	4.3000e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7359	0.7359	4.0000e-005	0.0000	0.7367
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.7500e-003	0.0351	0.0486	7.0000e-005	2.2400e-003	2.2400e-003	2.2400e-003	2.2300e-003	2.2300e-003	2.2300e-003	0.0000	6.3376	6.3376	1.8700e-003	0.0000	6.3768
Paving	0.0000				0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.7500e-003	0.0351	0.0486	7.0000e-005	2.2400e-003	2.2400e-003	2.2400e-003	2.2300e-003	2.2300e-003	2.2300e-003	0.0000	6.3376	6.3376	1.8700e-003	0.0000	6.3768
tons/yr											MT/yr					

Mitigated Construction Off-Site

3.6 Paving - 2017

Category	tons/yr															MT/yr	
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O		CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Worker	2.8000e-004	4.1000e-004	4.3000e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.0000	0.7359	4.0000e-005	0.0000	0.0000	0.7367
Total	2.8000e-004	4.1000e-004	4.3000e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.0000	0.7359	4.0000e-005	0.0000	0.0000	0.7367

3.7 Architectural Coating - 2017
Unmitigated Construction On-Site

Category	tons/yr															MT/yr	
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O		CO2e
Archit. Coating	1.7613				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0721	0.0617	1.0000e-004	5.7200e-003	5.7200e-003	5.7200e-003	5.7200e-003	5.7200e-003	5.7200e-003	0.0000	8.4257	8.4257	8.9000e-004	0.0000	0.0000	8.4444
Total	1.7723	0.0721	0.0617	1.0000e-004	5.7200e-003	5.7200e-003	5.7200e-003	5.7200e-003	5.7200e-003	5.7200e-003	0.0000	8.4257	8.4257	8.9000e-004	0.0000	0.0000	8.4444

**3.7 Architectural Coating - 2017
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.4200e-003	2.1000e-003	0.0218	5.0000e-005	3.9800e-003	4.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.7360	3.7360	2.0000e-004	0.0000	3.7403
Total	1.4200e-003	2.1000e-003	0.0218	5.0000e-005	3.9800e-003	4.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.7360	3.7360	2.0000e-004	0.0000	3.7403
tons/yr											MT/yr					

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	1.7613				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0448	0.0605	1.0000e-004	3.1400e-003	3.1400e-003	3.1400e-003	3.1400e-003	3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	8.9000e-004	0.0000	8.4444
Total	1.7633	0.0448	0.0605	1.0000e-004	3.1400e-003	3.1400e-003	3.1400e-003	3.1400e-003	3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	8.9000e-004	0.0000	8.4444
tons/yr											MT/yr					

3.7 Architectural Coating - 2017

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	1.4200e-003	2.1000e-003	0.0218	5.0000e-005	3.9800e-003	4.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.7360	3.7360	2.0000e-004	0.0000	3.7403
Total	1.4200e-003	2.1000e-003	0.0218	5.0000e-005	3.9800e-003	4.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.7360	3.7360	2.0000e-004	0.0000	3.7403

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8247	2.1337	8.5166	0.0189	1.2412	0.0285	1.2696	0.3324	0.0262	0.3586	0.0000	1,463.748 1	1,463.748 1	0.0612	0.0000	1,465.033 5
Unmitigated	0.8690	2.4709	9.6008	0.0224	1.4814	0.0335	1.5149	0.3968	0.0309	0.4276	0.0000	1,736.876 2	1,736.876 2	0.0718	0.0000	1,738.382 9

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	440.40	94.80	39.20	1,075,048	900,739
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	1,445.20	358.40	62.00	2,833,383	2,373,978
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,885.60	453.20	101.20	3,908,430	3,274,717

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	553.9459	553.9459	0.0144	2.9800e-003	555.1722
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	588.0642	588.0642	0.0153	3.1600e-003	589.3660
NaturalGas Mitigated	4.0300e-003	0.0367	0.0308	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9119	39.9119	7.6000e-004	7.3000e-004	40.1548
NaturalGas Unmitigated	4.7100e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6613	46.6613	8.9000e-004	8.6000e-004	46.9453

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	437200	2.3600e-003	0.0214	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	23.3307	23.3307	4.5000e-004	4.3000e-004	23.4726
Medical Office Building	437200	2.3600e-003	0.0214	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	23.3307	23.3307	4.5000e-004	4.3000e-004	23.4726
Other Asphalt Surfaces	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		4.7200e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6613	46.6613	9.0000e-004	8.6000e-004	46.9453

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	373960	2.0200e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9559	19.9559	3.8000e-004	3.7000e-004	20.0774
Medical Office Building	373960	2.0200e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9559	19.9559	3.8000e-004	3.7000e-004	20.0774
Other Asphalt Surfaces	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
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
Total		4.0400e-003	0.0367	0.0308	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	39.9119	39.9119	7.6000e-004	7.4000e-004	40.1548

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	0	0.0000	0.0000	0.0000	0.0000
General Office Building	581200	294.0321	7.6500e-003	1.5800e-003	294.6830
Medical Office Building	581200	294.0321	7.6500e-003	1.5800e-003	294.6830
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		588.0642	0.0153	3.1600e-003	589.3660

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	0	0.0000	0.0000	0.0000	0.0000
General Office Building	547480	276.9730	7.2000e-003	1.4900e-003	277.5861
Medical Office Building	547480	276.9730	7.2000e-003	1.4900e-003	277.5861
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		553.9459	0.0144	2.9800e-003	555.1722

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Unmitigated	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121

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	0.1761					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Total	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121

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	0.1761					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Total	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	38.9829	0.1912	4.6900e-003	44.4536
Unmitigated	50.3975	0.2391	5.8700e-003	57.2395

7.2 Water by Land Use
Unmitigated

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000
General Office Building	7.29907 / 0	50.3975	0.2391	57.2395
Medical Office Building	0 / 0	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000
Total		50.3975	0.2391	57.2395

7.2 Water by Land Use
Mitigated

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000
General Office Building	5,83926 / 0	38,9829	0.1912	44,4536
Medical Office Building	0 / 0	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000
Total		38,9829	0.1912	44,4536

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

		Total CO2	CH4	N2O	CO2e
Mitigated	5.6838	0.3359	0.0000		12.7376
Unmitigated	11.3675	0.6718	0.0000		25.4753
MT/yr					

8.2 Waste by Land Use
Unmitigated

		Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	56	11.3675	0.6718	0.0000	25.4753	
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000	
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	
Total			11.3675	0.6718	0.0000	25.4753

**Enclave Nonresidential Alternative
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	308.00	Space	0.00	0.00	0
Other Asphalt Surfaces	72.00	1000sqft	0.00	72,000.00	0
Medical Office Building	40.00	1000sqft	0.36	40,000.00	0
General Office Building	40.00	1000sqft	0.36	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per nonresidential alternative description

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills.

Demolition -

Grading - Per site plan

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Water And Wastewater - Indoor water use includes general and medical office buildings, all outdoor/landscaping, fitness center. See Utilities section of Alternatives

Solid Waste - See Utilities section of Alternatives. Solid waste calculation includes general and medical office

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstructionPhase	NumDays	5.00	66.00

tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	143.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	1.00	6.00
tblGrading	AcresOfGrading	0.00	0.72
tblGrading	AcresOfGrading	3.00	0.72
tblGrading	MaterialExported	0.00	50,000.00
tblLandUse	LandUseSquareFeet	123,200.00	0.00
tblLandUse	LotAcreage	2.77	0.00
tblLandUse	LotAcreage	1.65	0.00
tblLandUse	LotAcreage	0.92	0.36
tblLandUse	LotAcreage	0.92	0.36
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	37.20	56.00
tblSolidWaste	SolidWasteGenerationRate	432.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00

tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblWater	IndoorWaterUseRate	7,109,349.92	7,299,072.00
tblWater	IndoorWaterUseRate	5,019,221.50	0.00
tblWater	OutdoorWaterUseRate	4,357,343.50	0.00
tblWater	OutdoorWaterUseRate	956,042.19	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
2015	2.7760	32.1209	22.6415	0.0569	2.1443	1.3300	3.4743	0.7796	1.2546	2.0342	0.0000	5.758,217	5.758,217	0.4109	0.4109	0.0000	5,766,847
2016	3.4969	29.1589	21.6049	0.0569	3.5236	1.2869	4.7096	1.1182	1.2384	2.2371	0.0000	5,697,567	5,697,567	0.4574	0.0000	5,707,172	5
2017	53.7491	19.1088	19.1831	0.0333	0.7819	1.1582	1.9401	0.2104	1.1142	1.3246	0.0000	3,018,039	3,018,039	0.4329	0.0000	3,027,131	0
Total	60.0220	80.3886	63.4294	0.1471	6.4498	3.7751	10.1240	2.1082	3.6072	5.5959	0.0000	14,473.82	14,473.82	1.3012	0.0000	14,501.15	07

Mitigated Construction

Year	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
2015	1.4794	24.7833	22.2363	0.0569	1.6577	0.8017	2.4595	0.5232	0.7749	1.2980	0.0000	5,758,217	5,758,217	0.4109	0.0000	5,766,847	2
2016	1.3519	22.8095	21.3140	0.0569	3.0370	0.7416	3.7782	0.8618	0.7354	1.5809	0.0000	5,697,567	5,697,567	0.4574	0.0000	5,707,172	5
2017	53.4762	13.5191	18.1626	0.0333	0.7819	0.7344	1.5163	0.2104	0.7288	0.9391	0.0000	3,018,039	3,018,039	0.4329	0.0000	3,027,131	0
Total	56.3075	61.1118	61.7129	0.1471	5.4767	2.2778	7.7540	1.5954	2.2390	3.8181	0.0000	14,473.82	14,473.82	1.3012	0.0000	14,501.15	07

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.19	23.98	2.71	0.00	15.09	39.66	23.41	24.33	37.93	31.77	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.20	13.52	12.21	15.71	16.21	15.15	16.19	16.21	15.15	16.13	0.00	15.71	15.71	14.69	14.51	15.71

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	2/29/2016	5	143	
4	Building Construction	Building Construction	3/1/2016	2/13/2017	5	250	
5	Paving	Paving	2/14/2017	2/28/2017	5	11	
6	Architectural Coating	Architectural Coating	3/1/2017	5/31/2017	5	66	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 228,000; Non-Residential Outdoor: 76,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Excavators	1	6.00	162	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Building Construction	Welders	3	8.00	46	0.45
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,250.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	56.00	25.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.6386	1,200.6386	0.2451		1,205.7861
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015

Unmitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404		320.1875	320.1875	2.5800e-003		320.2416
Vendor		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker		0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total		0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711		447.3297	447.3297	9.8400e-003		447.5362

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust						0.2964	0.0000	0.2964	0.0449	0.0000	0.0449		0.0000	0.0000			0.0000
Off-Road		0.3301	6.3628	7.9752	0.0120		0.4354	0.4354		0.4306	0.4306		1,200.638	1,200.638	0.2451		1,205.786
Total		0.3301	6.3628	7.9752	0.0120	0.2964	0.4354	0.7318	0.0449	0.4306	0.4755		1,200.638	1,200.638	0.2451		1,205.786

3.2 Demolition - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404	320.1875	320.1875	320.1875	2.5800e-003	320.2416	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	0.0000
Worker	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	127.1422	127.1422	127.1422	7.2600e-003	127.2945	0.0000	0.0000
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711	447.3297	447.3297	447.3297	9.8400e-003	447.5362	0.0000	0.0000

3.3 Site Preparation - 2015
Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.1273	0.0000	0.1273	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4222	14.2999	7.4063	9.3600e-003	0.8797	0.8797	0.8797	0.8797	0.8093	0.8093	0.8093	984.5542	984.5542	984.5542	0.2939	0.2939	990.7267
Total	1.4222	14.2999	7.4063	9.3600e-003	0.1273	0.8797	1.0070	0.0137	0.8093	0.8093	0.8231	984.5542	984.5542	984.5542	0.2939	0.2939	990.7267

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0247	0.0310	0.3823	7.3000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153			63.5711	3.6300e-003		63.6473
Total	0.0247	0.0310	0.3823	7.3000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153			63.5711	3.6300e-003		63.6473
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0496	0.0000	0.0496	5.3600e-003	0.0000	5.3600e-003			0.0000			0.0000
Off-Road	0.2696	4.9081	7.0100	9.3600e-003		0.2845	0.2845	0.2813	0.2813	0.2813			984.5542	0.2939		990.7267
Total	0.2696	4.9081	7.0100	9.3600e-003	0.0496	0.2845	0.3342	5.3600e-003	0.2813	0.2867	0.0000	0.0000	984.5542	0.2939	0.0000	990.7267
lb/day																

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	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	0.0000
Worker	0.0247	0.0310	0.3823	7.3000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153	63.5711	63.5711	63.5711	3.6300e-003	63.6473	63.6473	63.6473
Total	0.0247	0.0310	0.3823	7.3000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153	63.5711	63.5711	63.5711	3.6300e-003	63.6473	63.6473	63.6473

3.4 Grading - 2015

Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day		lb/day															
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.7976	0.0000	0.7976	0.4203	0.0000	0.4203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7244	15.5896	11.3932	0.0160	1.0549	1.0549	1.0549	1.0549	1.0016	1.0016	1.0016	1.617.304	1.617.304	1.617.304	0.3695	1.625.064	1.625.064
Total	1.7244	15.5896	11.3932	0.0160	0.7976	1.0549	1.0549	1.8525	0.4203	1.0016	1.4219	1.617.304	1.617.304	1.617.304	0.3695	1.625.064	1.625.064

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.9875	16.4507	10.2542	0.0390	1.2013	0.2737	1.4750	0.3207	0.2517	0.5725	3,975.628	3,975.628	0.0320	0.0000	3.976,299	7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0641	0.0806	0.9940	1.8900e-003	0.1453	1.4500e-003	0.1468	0.0385	1.3300e-003	0.0399	165.2848	165.2848	9.4300e-003	0.0000	165.4829	6
Total	1.0516	16.5313	11.2482	0.0409	1.3466	0.2751	1.6218	0.3593	0.2531	0.6123	4,140.912	4,140.912	0.0414	0.0000	4,141.782	6

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.3111	0.0000	0.3111	0.1639	0.0000	0.1639	0.0000	0.0000	0.0000			0.0000
Off-Road	0.4278	8.2519	10.9881	0.0160				0.5266	0.5266	0.5266	0.0000	1,617.304	1,617.304	0.3695		1,625.064
Total	0.4278	8.2519	10.9881	0.0160	0.3111	0.0000	0.3111	0.1639	0.5218	0.6857	0.0000	1,617.304	1,617.304	0.3695		1,625.064

Mitigated Construction Off-Site

3.4 Grading - 2015

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.9875	16.4507	10.2542	0.0390	1.2013	0.2737	1.4750	0.3207	0.2517	0.5725		3,975.628	3,975.628	0.0320		3,976.299
Vendor		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker		0.0641	0.0806	0.9940	1.8900e-003	0.1453	1.4500e-003	0.1468	0.0385	1.3300e-003	0.0399		165.2848	165.2848	9.4300e-003		165.4829
Total		1.0516	16.5313	11.2482	0.0409	1.3466	0.2751	1.6218	0.3593	0.2531	0.6123		4,140.912	4,140.912	0.0414		4,141.782

Unmitigated Construction On-Site

3.4 Grading - 2016

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust						0.7976		0.0000	0.4203		0.4203			0.0000			0.0000
Off-Road		1.6034	14.5616	11.2761	0.0160		0.9674	0.9674		0.9178	0.9178		1,606.049	1,606.049	0.3630		1,613.672
Total		1.6034	14.5616	11.2761	0.0160	0.7976	0.9674	1.7650	0.4203	0.9178	1.3381		1,606.049	1,606.049	0.3630		1,613.672

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.8707	14.5245	9.4270	0.0390	2.5807	0.2173	2.7979	0.6593	0.1999	0.8592	3,931,745	3,931,745	3,931,745	0.0288		3,932,349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Worker	0.0579	0.0729	0.9018	1.8900e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398	159,7728	159,7728	159,7728	8.7000e-003		159,9554
Total	0.9286	14.5974	10.3288	0.0409	2.7260	0.2186	2.9446	0.6978	0.2011	0.8990	4,091,518	4,091,518	4,091,518	0.0375		4,092,305

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.3111	0.0000	0.3111	0.1639	0.0000	0.1639	0.0000	0.0000	0.0000			0.0000
Off-Road	0.4233	8.2121	10.9852	0.0160				0.5226	0.5181	0.5181	0.0000	1,606,049	1,606,049	0.3630		1,613,672
Total	0.4233	8.2121	10.9852	0.0160	0.3111	0.0000	0.3111	0.8337	0.1639	0.5181	0.0000	1,606,049	1,606,049	0.3630		1,613,672

3.4 Grading - 2016

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	0.8707	14.5245	9.4270	0.0390	2.5807	0.2173	2.7979	0.6593	0.1999	0.8592		3,931.7459	3,931.7459	0.0288		3,932.3496
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0729	0.9018	1.8900e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		159.7728	159.7728	8.7000e-003		159.9554
Total	0.9286	14.5974	10.3288	0.0409	2.7260	0.2186	2.9446	0.6978	0.2011	0.8990		4,091.5187	4,091.5187	0.0375		4,092.3050

3.5 Building Construction - 2016

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	3.0369	18.0181	13.6135	0.0197		1.2468	1.2468		1.2015	1.2015		1,825.5452	1,825.5452	0.4159		1,834.2782
Total	3.0369	18.0181	13.6135	0.0197		1.2468	1.2468		1.2015	1.2015		1,825.5452	1,825.5452	0.4159		1,834.2782

3.5 Building Construction - 2016

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	0.2106	2.1877	2.5417	5.4900e-003	0.1559	0.0342	0.1901	0.0444	0.0315	0.0758		550.5515	550.5515	4.0400e-003			550.6364
Worker	0.2494	0.3139	3.8847	8.1400e-003	0.6260	5.9200e-003	0.6319	0.1660	5.4400e-003	0.1714		688.2519	688.2519	0.0375			689.0387
Total	0.4601	2.5016	6.4264	0.0136	0.7819	0.0401	0.8220	0.2104	0.0369	0.2473		1,238.8035	1,238.8035	0.0415			1,239.6751

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	0.6296	11.2725	12.2594	0.0197		0.7015	0.7015		0.6985	0.6985	0.0000	1,825.5452	1,825.5452	0.4159			1,834.2782
Total	0.6296	11.2725	12.2594	0.0197		0.7015	0.7015		0.6985	0.6985	0.0000	1,825.5452	1,825.5452	0.4159			1,834.2782

3.5 Building Construction - 2016

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	0.2106	2.1877	2.5417	5.4900e-003	0.1559	0.0342	0.1901	0.0444	0.0315	0.0758		550.5515	550.5515	4.0400e-003			550.6364
Worker	0.2494	0.3139	3.8847	8.1400e-003	0.6260	5.9200e-003	0.6319	0.1660	5.4400e-003	0.1714		688.2519	688.2519	0.0375			689.0387
Total	0.4601	2.5016	6.4264	0.0136	0.7819	0.0401	0.8220	0.2104	0.0369	0.2473		1,238.8035	1,238.8035	0.0415			1,239.6751

3.5 Building Construction - 2017

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	2.7292	16.8305	13.2770	0.0197		1.1220	1.1220		1.0810	1.0810		1,813.7841	1,813.7841	0.3944			1,822.0664
Total	2.7292	16.8305	13.2770	0.0197		1.1220	1.1220		1.0810	1.0810		1,813.7841	1,813.7841	0.3944			1,822.0664

3.5 Building Construction - 2017

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	0.1926	1.9944	2.3863	5.4900e-003	0.1560	0.0305	0.1864	0.0444	0.0280	0.0724		541.7598	541.7598	3.9100e-003			541.8420
Worker	0.2241	0.2839	3.5197	8.1400e-003	0.6260	5.6700e-003	0.6316	0.1660	5.2300e-003	0.1712		662.4954	662.4954	0.0346			663.2226
Total	0.4168	2.2783	5.9060	0.0136	0.7819	0.0361	0.8181	0.2104	0.0333	0.2436		1,204.2553	1,204.2553	0.0385			1,205.0645

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	0.6260	11.2408	12.2565	0.0197		0.6983	0.6983		0.6955	0.6955	0.0000	1,813.7841	1,813.7841	0.3944			1,822.0664
Total	0.6260	11.2408	12.2565	0.0197		0.6983	0.6983		0.6955	0.6955	0.0000	1,813.7841	1,813.7841	0.3944			1,822.0664

3.5 Building Construction - 2017
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1926	1.9944	2.3863	5.4900e-003	0.1560	0.0305	0.1864	0.0444	0.0280	0.0724	541.7598	541.7598	541.7598	3.9100e-003		541.8420
Worker	0.2241	0.2839	3.5197	8.1400e-003	0.6260	5.6700e-003	0.6316	0.1660	5.2300e-003	0.1712	662.4954	662.4954	662.4954	0.0346		663.2226
Total	0.4168	2.2783	5.9060	0.0136	0.7819	0.0361	0.8181	0.2104	0.0333	0.2436	1,204.2553	1,204.2553	1,204.2553	0.0385		1,205.0645

3.6 Paving - 2017

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.2643	12.1659	8.8529	0.0127	0.7961	0.7961	0.7961	0.7342	0.7342	0.7342	1,270.1872	1,270.1872	1,270.1872	0.3738		1,278.0377
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	1.2643	12.1659	8.8529	0.0127	0.7961	0.7961	0.7961	0.7342	0.7342	0.7342	1,270.1872	1,270.1872	1,270.1872	0.3738		1,278.0377

3.6 Paving - 2017

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398	153.7936	153.7936	153.7936	8.0400e-003		153.9624
Total	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398			153.7936	8.0400e-003		153.9624
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.3181	6.3722	8.8390	0.0127	0.4076	0.4076	0.4076	0.4052	0.4052	0.4052	0.0000	1,270.187	1,270.187	0.3738		1,278.037
Paving	0.0000							0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.3181	6.3722	8.8390	0.0127	0.4076	0.4076	0.4076	0.4052	0.4052	0.4052	0.0000	1,270.187	1,270.187	0.3738		1,278.037
lb/day																

Mitigated Construction Off-Site

3.6 Paving - 2017

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398	153.7936	153.7936	153.7936	8.0400e-003		153.9624	153.9624
0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398	153.7936	153.7936	153.7936	8.0400e-003		153.9624	153.9624
0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398	153.7936	153.7936	153.7936	8.0400e-003		153.9624	153.9624
Total																

3.7 Architectural Coating - 2017
Unmitigated Construction On-Site

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
53.3727				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
53.3727				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
53.3727				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
53.7050	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721	282.0721
53.7050	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721	282.0721
53.7050	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721	282.0721
Total																

**3.7 Architectural Coating - 2017
Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	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		0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336	130.1330	130.1330	130.1330	6.8000e-003		130.2759
Total		0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336	130.1330	130.1330	130.1330	6.8000e-003		130.2759

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating		53.3727				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Off-Road		0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	281.4481	0.0297	282.0721
Total		53.4322	1.3570	1.8324	2.9700e-003	0.0000	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	281.4481	0.0297	282.0721

3.7 Architectural Coating - 2017

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	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		130.1330	130.1330	6.8000e-003		130.2759
Total	0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		130.1330	130.1330	6.8000e-003		130.2759

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0072	14.4728	60.4065	0.1419	9.1941	0.2064	9.4005	2.4585	0.1900	2.6485		12,114.20 43	12,114.20 43	0.4905		12,124.50 43
Unmitigated	6.3347	16.7339	68.8072	0.1684	10.9733	0.2435	11.2167	2.9343	0.2241	3.1584		14,375.84 77	14,375.84 77	0.5750		14,387.92 27

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	440.40	94.80	39.20	1,075,048	900,739
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	1,445.20	358.40	62.00	2,833,383	2,373,978
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,885.60	453.20	101.20	3,908,430	3,274,717

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372
NaturalGas Unmitigated	0.0258	0.2349	0.1973	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.8372	281.8372	5.4000e-003	5.1700e-003	283.5524

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	1197.81	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003		140.9186	140.9186	2.7000e-003	2.5800e-003	141.7762
Medical Office Building	1197.81	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003		140.9186	140.9186	2.7000e-003	2.5800e-003	141.7762
Other Asphalt Surfaces	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		0.0258	0.2349	0.1973	1.4000e-003		0.0178	0.0178		0.0178	0.0178		281.8372	281.8372	5.4000e-003	5.1600e-003	283.5524

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	1.02455	0.0111	0.1005	0.0844	6.0000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003		120.5351	120.5351	2.3100e-003	2.2100e-003	121.2686
Medical Office Building	1.02455	0.0111	0.1005	0.0844	6.0000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003		120.5351	120.5351	2.3100e-003	2.2100e-003	121.2686
Other Asphalt Surfaces	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
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
Total		0.0221	0.2009	0.1687	1.2000e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004			0.1066
Unmitigated	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004			0.1066

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	0.9651					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	3.0096					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	4.6200e-003	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004			0.1066
Total	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004			0.1066

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	0.9651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6200e-003	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Total	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
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10.0 Vegetation

**Enclave Nonresidential Alternative
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	308.00	Space	0.00	0.00	0
Other Asphalt Surfaces	72.00	1000sqft	0.00	72,000.00	0
Medical Office Building	40.00	1000sqft	0.36	40,000.00	0
General Office Building	40.00	1000sqft	0.36	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per nonresidential alternative description

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills.

Demolition -

Grading - Per site plan

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Water And Wastewater - Indoor water use includes general and medical office buildings, all outdoor/landscaping, fitness center. See Utilities section of Alternatives

Solid Waste - See Utilities section of Alternatives. Solid waste calculation includes general and medical office

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	66.00

tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	143.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	1.00	6.00
tblGrading	AcresOfGrading	0.00	0.72
tblGrading	AcresOfGrading	3.00	0.72
tblGrading	MaterialExported	0.00	50,000.00
tblLandUse	LandUseSquareFeet	123,200.00	0.00
tblLandUse	LotAcreage	2.77	0.00
tblLandUse	LotAcreage	1.65	0.00
tblLandUse	LotAcreage	0.92	0.36
tblLandUse	LotAcreage	0.92	0.36
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	37.20	56.00
tblSolidWaste	SolidWasteGenerationRate	432.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00

tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblWater	IndoorWaterUseRate	7,109,349.92	7,299,072.00
tblWater	IndoorWaterUseRate	5,019,221.50	0.00
tblWater	OutdoorWaterUseRate	4,357,343.50	0.00
tblWater	OutdoorWaterUseRate	956,042.19	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2015	2.8335	32.7192	23.9602	0.0568	2.1443	1.3308	3.4751	0.7796	1.2553	2.0350	0.0000	5,741.159	5,741.159	0.4113	0.0000	5,749.796
2016	3.5287	29.6869	22.9266	0.0567	3.5236	1.2873	4.7101	1.1182	1.2387	2.2375	0.0000	5,680.876	5,680.876	0.4575	0.0000	5,690.483
2017	53.7507	19.1887	19.5037	0.0328	0.7819	1.1585	1.9404	0.2104	1.1145	1.3249	0.0000	2,976.295	2,976.295	0.4331	0.0000	2,985.389
Total	60.1129	81.5948	66.3905	0.1463	6.4498	3.7766	10.1256	2.1082	3.6086	5.5973	0.0000	14,398.33	14,398.33	1.3018	0.0000	14,425.66

Mitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2015	1.5368	25.3816	23.5551	0.0568	1.6577	0.8025	2.4603	0.5232	0.7756	1.2988	0.0000	5,741.159	5,741.159	0.4113	0.0000	5,749.796
2016	1.3995	23.3374	22.6357	0.0567	3.0370	0.7420	3.7787	0.8618	0.7357	1.5813	0.0000	5,680.876	5,680.876	0.4575	0.0000	5,690.483
2017	53.4779	13.5990	18.4832	0.0328	0.7819	0.7347	1.5166	0.2104	0.7290	0.9394	0.0000	2,976.295	2,976.295	0.4331	0.0000	2,985.389
Total	56.4142	62.3180	64.6741	0.1463	5.4767	2.2792	7.7556	1.5954	2.2404	3.8196	0.0000	14,398.33	14,398.33	1.3018	0.0000	14,425.66

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.15	23.63	2.59	0.00	15.09	39.65	23.41	24.33	37.92	31.76	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
Area	3.9793	4.5000e-004	0.0479	0.0000	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	0.1007	0.1007	2.8000e-004	0.1066		0.1066
Energy	0.0258	0.2349	0.1973	1.4100e-003	0.0179	0.0179	0.0179	0.0179	0.0179	0.0179	281.8372	13,750.24	283.5524	5.1700e-003		283.5524
Mobile	6.6688	17.6171	69.6186	0.1608	10.9733	0.2446	11.2178	2.9343	0.2251	3.1594	13,750.24	13,750.24	0.5755			13,762.32
Total	10.6739	17.8524	69.8637	0.1622	10.9733	0.2626	11.2358	2.9343	0.2431	3.1774	14,032.17	14,032.17	0.5812			14,045.98
lb/day																
Category																

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
Area	3.9793	4.5000e-004	0.0479	0.0000	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	0.1007	0.1007	2.8000e-004	0.1066		0.1066
Energy	0.0221	0.2009	0.1688	1.2100e-003	0.0153	0.0153	0.0153	0.0153	0.0153	0.0153	241.0701	11,587.19	242.5372	4.4200e-003		242.5372
Mobile	6.3500	15.2178	61.9363	0.1355	9.1941	0.2075	9.4016	2.4585	0.1910	2.6495	11,587.19	11,587.19	0.4910			11,597.50
Total	10.3514	15.4191	62.1529	0.1367	9.1941	0.2230	9.4170	2.4585	0.2064	2.6649	11,828.36	11,828.36	0.4959			11,840.15
lb/day																
Category																

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.02	13.63	11.04	15.70	16.21	15.09	16.19	16.21	15.08	16.13	0.00	15.71	15.71	14.68	14.51	15.70

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	2/29/2016	5	143	
4	Building Construction	Building Construction	3/1/2016	2/13/2017	5	250	
5	Paving	Paving	2/14/2017	2/28/2017	5	11	
6	Architectural Coating	Architectural Coating	3/1/2017	5/31/2017	5	66	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 228,000; Non-Residential Outdoor: 76,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Excavators	1	6.00	162	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Building Construction	Welders	3	8.00	46	0.45
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,250.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	56.00	25.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.6386	1,200.6386	0.2451		1,205.7861
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015
Unmitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405		319.5604	319.5604	2.6000e-003		319.6150
Vendor		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker		0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total		0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711		439.5711	439.5711	9.8600e-003		439.7782

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust						0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road		0.3301	6.3628	7.9752	0.0120		0.4354	0.4354		0.4306	0.4306		1,200.638	1,200.638	0.2451		1,205.786
Total		0.3301	6.3628	7.9752	0.0120	0.2964	0.4354	0.7318	0.0449	0.4306	0.4755		1,200.638	1,200.638	0.2451		1,205.786

3.2 Demolition - 2015

Mitigated Construction Off-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
lb/day		lb/day																
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405	319.5604	319.5604	319.5604	2.6000e-003	319.6150	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	0.0000	0.0000
Worker	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307	120.0108	120.0108	120.0108	7.2600e-003	120.1631	0.0000	0.0000	0.0000
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711	439.5711	439.5711	439.5711	9.8600e-003	439.7782	0.0000	0.0000	0.0000

3.3 Site Preparation - 2015
Unmitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day		lb/day															
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.1273	0.0000	0.1273	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4222	14.2999	7.4063	9.3600e-003	0.8797	0.8797	0.8797	0.8797	0.8093	0.8093	0.8093	984.5542	984.5542	984.5542	0.2939	990.7267	990.7267
Total	1.4222	14.2999	7.4063	9.3600e-003	0.1273	0.8797	1.0070	0.0137	0.8093	0.8093	0.8231	984.5542	984.5542	984.5542	0.2939	990.7267	990.7267

**3.3 Site Preparation - 2015
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0257	0.0344	0.3602	6.9000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		60.0054	60.0054	3.6300e-003		60.0816
Total	0.0257	0.0344	0.3602	6.9000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		60.0054	60.0054	3.6300e-003		60.0816

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0496	0.0000	0.0496	5.3600e-003	0.0000	5.3600e-003			0.0000			0.0000
Off-Road	0.2696	4.9081	7.0100	9.3600e-003			0.2845	0.2813	0.2813	0.2813		984.5542	984.5542	0.2939		990.7267
Total	0.2696	4.9081	7.0100	9.3600e-003	0.0496	0.0000	0.2845	0.2813	0.2813	0.2813	0.0000	984.5542	984.5542	0.2939		990.7267

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0257	0.0344	0.3602	6.9000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		60.0054	60.0054	3.6300e-003		60.0816
Total	0.0257	0.0344	0.3602	6.9000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		60.0054	60.0054	3.6300e-003		60.0816
lb/day																

3.4 Grading - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.7976	0.0000	0.7976	0.4203	0.0000	0.4203			0.0000			0.0000
Off-Road	1.7244	15.5896	11.3932	0.0160		1.0549	1.0549	1.0016	1.0016	1.0016		1.617.304	1.617.304	0.3695		1.625.064
Total	1.7244	15.5896	11.3932	0.0160	0.7976	1.0549	1.8525	0.4203	1.0016	1.4219		1.617.304	1.617.304	0.3695		1.625.064
lb/day																

3.4 Grading - 2015

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.0423	17.0403	11.6304	0.0390	1.2013	0.2745	1.4758	0.3207	0.2525	0.5732		3,967.840	3,967.840	0.0323		3,968.519
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0668	0.0894	0.9366	1.7800e-003	0.1453	1.4500e-003	0.1468	0.0385	1.3300e-003	0.0399		156.0140	156.0140	9.4300e-003		156.2121
Total	1.1091	17.1297	12.5670	0.0408	1.3466	0.2759	1.6226	0.3593	0.2538	0.6131		4,123.854	4,123.854	0.0417		4,124.731
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.3111	0.0000	0.3111	0.1639	0.0000	0.1639			0.0000			0.0000
Off-Road	0.4278	8.2519	10.9881	0.0160					0.5218	0.5218		1,617.304	1,617.304	0.3695		1,625.064
Total	0.4278	8.2519	10.9881	0.0160	0.3111	0.0000	0.3111	0.1639	0.5218	0.6857		1,617.304	1,617.304	0.3695		1,625.064
lb/day																

3.4 Grading - 2015

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.0423	17.0403	11.6304	0.0390	1.2013	0.2745	1.4758	0.3207	0.2525	0.5732		3,967.840	3,967.840	0.0323		3,968.519
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0668	0.0894	0.9366	1.7800e-003	0.1453	1.4500e-003	0.1468	0.0385	1.3300e-003	0.0399		156.0140	156.0140	9.4300e-003		156.2121
Total	1.1091	17.1297	12.5670	0.0408	1.3466	0.2759	1.6226	0.3593	0.2538	0.6131		4,123.854	4,123.854	0.0417		4,124.731
lb/day																

3.4 Grading - 2016

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.7976	0.0000	0.7976	0.4203	0.0000	0.4203			0.0000			0.0000
Off-Road	1.6034	14.5616	11.2761	0.0160		0.9674	0.9674		0.9178	0.9178		1,606.049	1,606.049	0.3630		1,613.672
Total	1.6034	14.5616	11.2761	0.0160	0.7976	0.9674	1.7650	0.4203	0.9178	1.3381		1,606.049	1,606.049	0.3630		1,613.672
lb/day																

3.4 Grading - 2016

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.9159	15.0445	10.8038	0.0389	2.5807	0.2177	2.7983	0.6593	0.2003	0.8596	3,924.023	0	3,924.023	0.0291		3,924.633 ¹
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0808	0.8468	1.7800e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398	150.8040	150.8040	8.7000e-003			150.9867
Total	0.9762	15.1253	11.6505	0.0407	2.7260	0.2191	2.9450	0.6978	0.2015	0.8994	4,074.827⁰	0	4,074.827⁰	0.0378		4,075.619⁸

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.3111	0.0000	0.3111	0.1639	0.0000	0.1639	0.0000	0.0000	0.0000			0.0000
Off-Road	0.4233	8.2121	10.9852	0.0160				0.5226	0.5181	0.5181	0.0000	1,606.049 ²	1,606.049 ²	0.3630		1,613.672 ⁸
Total	0.4233	8.2121	10.9852	0.0160	0.3111	0.0000	0.3111	0.5226	0.5181	0.6820	0.0000	1,606.049²	1,606.049²	0.3630		1,613.672⁸

3.4 Grading - 2016

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	0.9159	15.0445	10.8038	0.0389	2.5807	0.2177	2.7983	0.6593	0.2003	0.8596		3,924.0230	3,924.0230	0.0291		3,924.6331
Vendor	0.0000	0.0000	0.0000	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	0.0808	0.8468	1.7800e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		150.8040	150.8040	8.7000e-003		150.9867
Total	0.9762	15.1253	11.6505	0.0407	2.7260	0.2191	2.9450	0.6978	0.2015	0.8994		4,074.8270	4,074.8270	0.0378		4,075.6198

3.5 Building Construction - 2016

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	3.0369	18.0181	13.6135	0.0197		1.2468	1.2468		1.2015	1.2015		1,825.5452	1,825.5452	0.4159		1,834.2782
Total	3.0369	18.0181	13.6135	0.0197		1.2468	1.2468		1.2015	1.2015		1,825.5452	1,825.5452	0.4159		1,834.2782

3.5 Building Construction - 2016

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	0.2324	2.2426	3.0946	5.4600e-003	0.1559	0.0346	0.1905	0.0444	0.0318	0.0761		545.9803	545.9803	4.1600e-003			546.0676
Worker	0.2595	0.3481	3.6477	7.6800e-003	0.6260	5.9200e-003	0.6319	0.1660	5.4400e-003	0.1714		649.6174	649.6174	0.0375			650.4042
Total	0.4919	2.5907	6.7422	0.0131	0.7819	0.0405	0.8223	0.2104	0.0372	0.2476		1,195.5977	1,195.5977	0.0416			1,196.4718

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	0.6296	11.2725	12.2594	0.0197		0.7015	0.7015		0.6985	0.6985	0.0000	1,825.5452	1,825.5452	0.4159			1,834.2782
Total	0.6296	11.2725	12.2594	0.0197		0.7015	0.7015		0.6985	0.6985	0.0000	1,825.5452	1,825.5452	0.4159			1,834.2782

3.5 Building Construction - 2016

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	0.2324	2.2426	3.0946	5.4600e-003	0.1559	0.0346	0.1905	0.0444	0.0318	0.0761		545.9803	545.9803	4.1600e-003			546.0676
Worker	0.2595	0.3481	3.6477	7.6800e-003	0.6260	5.9200e-003	0.6319	0.1660	5.4400e-003	0.1714		649.6174	649.6174	0.0375			650.4042
Total	0.4919	2.5907	6.7422	0.0131	0.7819	0.0405	0.8223	0.2104	0.0372	0.2476		1,195.5977	1,195.5977	0.0416			1,196.4718

3.5 Building Construction - 2017

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	2.7292	16.8305	13.2770	0.0197		1.1220	1.1220		1.0810	1.0810		1,813.7841	1,813.7841	0.3944			1,822.0664
Total	2.7292	16.8305	13.2770	0.0197		1.1220	1.1220		1.0810	1.0810		1,813.7841	1,813.7841	0.3944			1,822.0664

3.5 Building Construction - 2017

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	0.2115	2.0434	2.9352	5.4500e-003	0.1560	0.0308	0.1868	0.0444	0.0283	0.0727		537.2516	537.2516	4.0300e-003			537.3362
Worker	0.2327	0.3148	3.2915	7.6800e-003	0.6260	5.6700e-003	0.6316	0.1660	5.2300e-003	0.1712		625.2598	625.2598	0.0346			625.9870
Total	0.4442	2.3582	6.2267	0.0131	0.7819	0.0365	0.8184	0.2104	0.0335	0.2439		1,162.5114	1,162.5114	0.0387			1,163.3232

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	0.6260	11.2408	12.2565	0.0197		0.6983	0.6983		0.6955	0.6955	0.0000	1,813.7841	1,813.7841	0.3944			1,822.0664
Total	0.6260	11.2408	12.2565	0.0197		0.6983	0.6983		0.6955	0.6955	0.0000	1,813.7841	1,813.7841	0.3944			1,822.0664

3.5 Building Construction - 2017

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.2115	2.0434	2.9352	5.4500e-003	0.1560	0.0308	0.1868	0.0444	0.0283	0.0727	537.2516	537.2516	4.0300e-003			537.3362
Worker	0.2327	0.3148	3.2915	7.6800e-003	0.6260	5.6700e-003	0.6316	0.1660	5.2300e-003	0.1712	625.2598	625.2598	0.0346			625.9870
Total	0.4442	2.3582	6.2267	0.0131	0.7819	0.0365	0.8184	0.2104	0.0335	0.2439	1,162.5114	1,162.5114	0.0387			1,163.3232

3.6 Paving - 2017

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.2643	12.1659	8.8529	0.0127	0.7961	0.7961	0.7961	0.7342	0.7342	0.7342	1,270.1872	1,270.1872	0.3738			1,278.0377
Paving	0.0000							0.0000	0.0000	0.0000			0.0000			0.0000
Total	1.2643	12.1659	8.8529	0.0127	0.7961	0.7961	0.7961	0.7342	0.7342	0.7342	1,270.1872	1,270.1872	0.3738			1,278.0377

3.6 Paving - 2017

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0540	0.0731	0.7641	1.7800e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398	145.1496	145.1496	145.1496	8.0400e-003	145.3184	145.3184
Total	0.0540	0.0731	0.7641	1.7800e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398			145.1496	8.0400e-003		145.3184
lb/day																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.3181	6.3722	8.8390	0.0127	0.4076	0.4076	0.4076	0.4052	0.4052	0.4052	0.0000	1,270.187	1,270.187	0.3738	1,278.037	1,278.037
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.3181	6.3722	8.8390	0.0127	0.4076	0.4076	0.4076	0.4052	0.4052	0.4052	0.0000	1,270.187	1,270.187	0.3738		1,278.037
lb/day																

Mitigated Construction Off-Site

3.6 Paving - 2017

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0540	0.0731	0.7641	1.7800e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398	145.1496	145.1496	145.1496	8.0400e-003		145.3184	
lb/day																
Worker	0.0540	0.0731	0.7641	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398	145.1496	145.1496	145.1496	8.0400e-003		145.3184	
Total	0.0540	0.0731	0.7641	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398	145.1496	145.1496	145.1496	8.0400e-003		145.3184	

3.7 Architectural Coating - 2017
Unmitigated Construction On-Site

Category																
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
53.3727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
53.3727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.3323	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721	
lb/day																
Off-Road	0.3323	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721	
Total	53.7050	2.1850	1.8681	2.9700e-003	0.1733	0.1733	0.1733	0.1733	0.1733	281.4481	281.4481	281.4481	0.0297		282.0721	

**3.7 Architectural Coating - 2017
Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling		0.0000	0.0000	0.0000	0.0000	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
Worker		0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336	122.8189	122.8189	122.8189	6.8000e-003			122.9617
Total		0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336	122.8189	122.8189	122.8189	6.8000e-003			122.9617

Mitigated Construction On-Site

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Archit. Coating		53.3727				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	
Off-Road		0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	281.4481	0.0297		282.0721
Total		53.4322	1.3570	1.8324	2.9700e-003	0.0000	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	281.4481	0.0297		282.0721

3.7 Architectural Coating - 2017

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	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		122.8189	122.8189	6.8000e-003		122.9617
Total	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		122.8189	122.8189	6.8000e-003		122.9617

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.3500	15.2178	61.9363	0.1355	9.1941	0.2075	9.4016	2.4585	0.1910	2.6495		11,587.1950	11,587.1950	0.4910		11,597.5062
Unmitigated	6.6688	17.6171	69.6186	0.1608	10.9733	0.2446	11.2178	2.9343	0.2251	3.1594		13,750.2405	13,750.2405	0.5755		13,762.3268

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	440.40	94.80	39.20	1,075,048	900,739
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	1,445.20	358.40	62.00	2,833,383	2,373,978
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,885.60	453.20	101.20	3,908,430	3,274,717

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372
NaturalGas Unmitigated	0.0258	0.2349	0.1973	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.8372	281.8372	5.4000e-003	5.1700e-003	283.5524

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	1197.81	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003		140.9186	140.9186	2.7000e-003	2.5800e-003	141.7762
Medical Office Building	1197.81	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003		140.9186	140.9186	2.7000e-003	2.5800e-003	141.7762
Other Asphalt Surfaces	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		0.0258	0.2349	0.1973	1.4000e-003		0.0178	0.0178		0.0178	0.0178		281.8372	281.8372	5.4000e-003	5.1600e-003	283.5524

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	1.02455	0.0111	0.1005	0.0844	6.0000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003		120.5351	120.5351	2.3100e-003	2.2100e-003	121.2686
Medical Office Building	1.02455	0.0111	0.1005	0.0844	6.0000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003		120.5351	120.5351	2.3100e-003	2.2100e-003	121.2686
Other Asphalt Surfaces	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
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
Total		0.0221	0.2009	0.1687	1.2000e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004			0.1066
Unmitigated	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004			0.1066

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	0.9651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	3.0096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	4.6200e-003	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004			0.1066
Total	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004			0.1066

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	0.9651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6200e-003	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Total	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
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10.0 Vegetation

APPENDIX 6.0

Traffic Memorandum



Traffic, Transportation, and Parking Consultants

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To: Wayne Ko, P.E., Principal Traffic Engineer, City of Glendale
From: Jano Baghdanian, P.E., JB & Associates
Date: August 25, 2014
Subject: Enclave Multifamily Residential Project Trip Generation Memorandum

JB & Associates is pleased to present the Enclave Multifamily Residential Project (the "Project") Traffic Trip Generation. The purpose of this memorandum is to document the proposed trip generation and receive approval for the project's Trip Generation methodology.

Project Location

The Project site consists of two continuous parcels of land located north of W. Elk Avenue between San Fernando Road and S. Pacific Avenue. The addresses are 509 and 525 W. Elk Avenue. The Project site is bound on the south by W. Elk Avenue, on the west by the five-story ICIS apartment complex, on the north by auto repair and medical office including Hamlet's BMW service and a medical office building, and on the east by a 2-story apartment building.

The project consists of the construction of 71 multifamily residential units (Studio, 1 bedroom, and 2 bedroom). The proposed project would include the demolition and removal of the existing 20,450 square foot Warehouse/Distribution Center and adjacent surface parking lot.

Alternative transportation modes are available and in walking distance from in the Project site. The Los Angeles County Metropolitan Transportation Authority (MTA) and the City of Glendale presently operate bus routes along Colorado Street and Pacific Avenue. All routes serving the Project connect to additional routes and stop at the Glendale Transportation Center (GTC), which provides access to the greater Los Angeles Metropolitan region via bus and commuter trains. The GTC also provides statewide access via Amtrak long-distance trains. The nearest GTC

stop is located approximately 1.25 miles south from the Project site and is accessible via San Fernando Road.

Project Access

The proposed project will have a subterranean parking structure to serve the development. Access to the parking structure will be from an approximately 22 foot wide driveway located on W. Elk Avenue. Please refer to **Exhibit 1** for an illustration of the proposed project’s site plan.

Project Trip Generation Methodology

Trip rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual 9th Edition* were used in this analysis.

Table 1 summarizes the trip generation findings.

TABLE 1: PROJECT TRIP GENERATION¹

Land Use (ITE Code)	Size	Units	AM Peak Hour Trips				PM Peak Hour Trips				Daily Trips	
			Rate	Total	In	Out	Rate	Total	In	Out	Rate	Total
New Project Land Use Added												
Residential Apartments (220)	71	du	0.51	36	20%	80%	0.62	44	65%	35%	6.65	472
					7	29			29	15.4		
Subtotal				36	7	29	-	44	29	15	-	472
Existing Land Use Removed												
Warehouse/Distribution Center (152)	20.45	tsf	0.11	-2	69%	31%	0.12	-2	31%	69%	1.68	-17
					-1	-1			-1	-1		
Subtotal				-2	-1	-1	-	-2	-1	-1	-	-17
Net Trip Generation				34	6	28	-	42	28	14	-	455

¹ ITE "Trip Generation" Manual, 9th Edition, 2012

As shown in **Table 1**, the proposed project is forecast to result in 34 new a.m. peak hour trips and 42 new p.m. peak hour trips.

CONCLUSION

Based on the above trip generation analysis, the net change in trips generated by the proposed project is less than 50 trips in both the AM and PM peak periods. Therefore the proposed project does not exceed the City’s thresholds for the preparation of a Traffic Impact Study.