

FORM APPROVED/COUNTY COUNSEL
BY: GREGORY P. PRIAMOS DATE
3/3/16

Departmental Concurrence

SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

932



FROM: Economic Development Agency

SUBMITTAL DATE:

March 3, 2016

SUBJECT: Southwest Justice Center Courts Relocation Project - Adoption of a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for Environmental Assessment Number EA201601I, Reject Bids for Electrical and Low Voltage Trade and Approve the Revised Plans and Specifications to Rebid, District 3, [\$0]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Adopt the Mitigated Negative Declaration and the Mitigation Monitoring Reporting Program (MMRP) for Environmental Assessment Number EA201601I, based on the findings incorporated in the Initial Study and the conclusion that the Southwest Justice Center Courts Relocation Project will not have a significant effect on the environment with implementation of the mitigation measures contained therein, and the Mitigated Negative Declaration (MND) reflects the Board's independent judgment and analysis;
2. Approve the Southwest Justice Center (SWJC) Courts Relocation Project;

(Continued)

Robert Field
Assistant County Executive Officer/EDA

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (per Exec. Office)
COST	\$ 0	\$ 0	\$ 0	\$ 0	Consent <input type="checkbox"/> Policy <input checked="" type="checkbox"/>
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0	

SOURCE OF FUNDS: N/A

Budget Adjustment: No

For Fiscal Year: 2015/16

C.E.O. RECOMMENDATION:

REVIEWED BY CIP

Ivan M. Chand

APPROVE

BY:

Rohini Dasika

County Executive Office Signature

3/8/2016

Positions Added

Change Order

A-30

4/5 Vote

Prev. Agn. Ref.: 3-17 of 12/8/15; 3-11
of 9/1/15; 3-76 of 2/26/13

District: 3

Agenda Number:

3-10

SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

Economic Development Agency

FORM 11: Southwest Justice Center Courts Relocation Project - Adoption of a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for Environmental Assessment Number EA201601I, Reject Bids for Electrical and Low Voltage Trade and Approve the Revised Plans and Specifications to Rebid, District 3, [\$0]

DATE: March 3, 2016

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RECOMMENDED MOTION: (Continued)

3. Direct the Clerk of the Board to file the attached Notice of Determination (NOD) with the County Clerk for posting within five days of approval by the Board;
4. Find that it is in the best interest of the County to reject all bids received on Bid Package 010 for the Electrical and Low Voltage Trade due to discrepancies in the bid specifications and the need to include additional terms in the specifications;
5. Approve the revised plans and specifications for Bid Package 010 for the Electrical and Low Voltage Trade and authorize Vanir Construction Management, Inc. (Vanir) to release the bids per the revised plans and specifications;
6. Upon completion of the bid process for Bid Package 010, authorize the Assistant County Executive Officer/EDA to submit the contract for award of the bid to the lowest responsive and responsible bidder to the Chairman of the Board, and authorize the Chairman to execute the agreement on behalf of the Board provided that, if any of the following occur, the award will be submitted to the Board for action: there is a bid protest, the lowest bid exceeds the estimated construction budget, the low bidder is disqualified, two or more bids are the same and are the lowest, or a bidder requests relief from its bid due to an error; and
7. Authorize the Assistant County Executive Officer/EDA to administer the contract for the awarded low bidder on Bid Package 010 in accordance with applicable Board policies.

BACKGROUND:

Summary

On February 26, 2013, the Board of Supervisors approved the Memorandum of Understanding between the Judicial Council of California, the Administrative Office of the Courts, and the County of Riverside (County) regarding new replacement space for the Indio County Administrative Center Annex Courthouse. The work includes construction of two new (replacement) juvenile and delinquency courtrooms, a secured, direct access corridor from the existing Southwest Juvenile Hall to the juvenile courtrooms and associated court facilities at the Southwest Justice Center.

EDA prepared an Initial Study for the proposed SWJC Courts Relocation project. In accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000-21177) and State CEQA Guidelines Section 15063, an Initial Study was prepared to analyze the proposed project to determine if any potential significant impacts upon the environment would result from construction and implementation of the project. The results of the analysis demonstrate that the project would not have any significant impacts on the environment with the implementation of the mitigation measures contained in the Initial Study and MMRP. Pursuant to CEQA (Public Resources Code Section 21081.6), the County is required to adopt a reporting and monitoring plan for the mitigation measures identified in the Initial Study/MND to mitigate or avoid significant effects on the environment. The MMRP contained in the Initial Study/MND presented to the Board for adoption is designed to ensure compliance during project implementation.

(Continued)

SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

Economic Development Agency

FORM 11: Southwest Justice Center Courts Relocation Project - Adoption of a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for Environmental Assessment Number EA201601I, Reject Bids for Electrical and Low Voltage Trade and Approve the Revised Plans and Specifications to Rebid, District 3, [\$0]

DATE: March 3, 2016

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BACKGROUND:

Summary (Continued)

On September 24, 2015, and in accordance with Assembly Bill 52, the Pechanga and Soboba Bands (Soboba) of Luiseno Indians were notified about the SWJC Courts Relocation project and invited to consult on September 25, 2015. The initial consultation with Pechanga took place on November 5, 2015 followed by an additional consultation on January 15, 2016 and concluded on January 20, 2016; initial consultation with Soboba took place on November 18, 2015 and concluded on December 17, 2016. As a result, both tribes recommended tribal monitoring during construction because of the potential presence of tribal cultural resources in the area and the potential for accidental discoveries. Mitigation measures were developed in coordination with the tribes to address concerns related to the accidental discovery of cultural resources. Compliance with these mitigation measures will ensure potential impacts from inadvertent discoveries remain at a less-than-significant level.

Subsequent to formal Assembly Bill 52, California Native American tribal government consultation, EDA prepared and circulated the Initial Study/MND for the mandated 20-day public review and comment period from January 23, 2016 to February 11, 2016. Pursuant to State CEQA Guidelines Section 15074, the County will consider all comments received during the review period prior to adoption of the Initial Study/MND.

On December 8, 2015, the Board of Supervisors (Board) approved the plans and specifications for the SWJC Courts Relocation project and authorized Vanir to release bid packages for all trades to complete the project. On January 27, 2016, a bid opening was conducted for the Electrical and Low Voltage Trade. On February 2, 2016, Vanir received a bid protest for Bid Package 010, Electrical and Low Voltage Trade, from Advanced Electrical Technologies, the third lowest bidder. Upon review of the bid protest and the bid specifications, EDA has determined that due to discrepancies in the bid specifications and the spread of bid prices, it is in the County's best interests to revise the specifications for Bid Package 010 and re-bid that portion of the work.

The specifications prepared by the design consultant inadvertently referred to pre-approval being required for equipment suppliers, installation and service organizations, as well as a 40 mile radius requirement from the job site for the installer doing the work. The specifications listed three potential companies for doing the work, but those companies were not within the 40 mile radius. To ensure adequate competition, include the appropriate requirements for system installers, add necessary warranty language, and include revisions now that final fire marshal approval has been received, the specifications have been revised. These revisions and rebid of the trade package should enable the County to obtain a fair and competitive price based on the entire scope of the trade work.

EDA is requesting for the Board to reject all bids for Bid Package 010 for the Electrical and Low Voltage Trade and authorize Vanir to re-advertise for bids using the revised plans and specifications for the trade. In order to keep the project moving forward without any impact and meet project schedule commitments, EDA recommends the Board to authorize the Assistant County Executive Officer/EDA to determine award of Bid Package 010 in accordance with Board Policy B-11 and authorize the Chairman to execute the agreement on behalf of the Board, provided that the lowest bid falls within the allotted project budget amount.

Impact on Citizens and Businesses

(Commences on Page 4)

SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA
Economic Development Agency

FORM 11: Southwest Justice Center Courts Relocation Project - Adoption of a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for Environmental Assessment Number EA2016011, Reject Bids for Electrical and Low Voltage Trade and Approve the Revised Plans and Specifications to Rebid, District 3, [\$0]

DATE: March 3, 2016

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Impact on Citizens and Businesses

In accordance with CEQA (Public Resources Code Sections 21000 – 21177), the Initial Study has been prepared to determine potentially significant impacts upon the environment resulting from the development of the proposed project. Although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because mitigation measures identified for the project, described in this document, have been made to reduce effects to less than significant.

Additional Fiscal Information

There is no cost associated with this particular action. The project will be funded by Bond Proceeds, thus no additional net county costs will be incurred and no department budget adjustment is required at this time.

Attachments:

Notice of Determination (NOD)
Specifications



Notice of Determination

To: <input type="checkbox"/> Office of Planning and Research For U.S Mail: P.O. Box 3044 Sacramento, CA 95812-3044	From: Public Street Address: 1400 Tenth St. Sacramento, CA 95814	Agency: Riverside County Address: 3403 10 th Street, 4 th Floor Riverside, CA 92501 Contact: Mike Sullivan Phone: (951) 955-8009
<input checked="" type="checkbox"/> County Clerk Riverside County – County of: <u>(County Clerk Office)</u> Address: <u>4080 Lemon St., 1st Floor</u> <u>Riverside, CA 92502</u>		Lead Agency (if different from above): Address: _____ Contact: _____ Phone: _____

SUBJECT: Filing of Notice of Determination in Compliance with Section 21108 or 21152 of the Public Resources Code.

State Clearinghouse Number (if submitted to State Clearinghouse): _____

Project Title: Southwest Justice Center Courts Relocation Project (Initial Study: RIVCO/CEQA 201601I)

Project Location: The proposed project site is located in the northeast portion of the existing Southwest Justice Center (SWJC) campus located at 30755 Auld Road, in the unincorporated French Valley area of Riverside County. The nearest cross street is Leon Road, adjacent to the east. The project is located within the Bachelor Mountain Quadrangle at Latitude 33° 34' 55" North and Longitude 117° 7' 12" West.

Project Description:

The SWJC Courts Relocation Project (Project) entails the construction and operation of a 14,333 square-foot building and execution of necessary agreements facilitating the addition of two juvenile courts and ancillary office space as well as additional surface parking areas, access roads, and walkways. The SWJC is an existing campus environment consisting of improvements and buildings which are currently occupied by the County Division of the Superior Courts of California; County Counsel, District Attorney, Economic Development Agency, Public Defender, Public Social Services, Probation, Purchasing/Fleet Services, and Sheriff; and the city of Temecula Police Department. The County has determined the SWJC must expand its existing courthouse services to provide for additional criminal or civil case types. The Project site is currently vacant and can accommodate additional facilities. One courtroom will handle juvenile dependency cases and the other courtroom will handle juvenile delinquency cases.

This is to advise that the Riverside County Board of Supervisors approved the above project on

3/15/16
(Date)

Lead agency or Responsible Agency

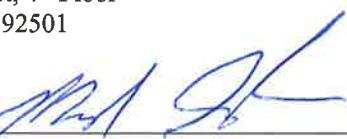
and has made the following determinations regarding the above described project:

1. The project will will not have a significant effect on the environment.
2. An Environmental Impact Report and Addendum was prepared for this project pursuant to the provisions of CEQA.
 A Mitigated Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. Mitigation measures were were not made a condition of the approval of the project.
4. A Mitigation reporting or monitoring plan was was not adopted for this project.
5. A statement of Overriding Considerations was was not adopted for this project.
6. Findings were were not made pursuant to the provisions of CEQA.

This is to certify that the Final Initial Study with comments and responses and record of project approval, and/or the Mitigated Negative Declaration, is available to the General Public at:

County of Riverside
Economic Development Agency
3403 10th Street, 4th Floor
Riverside, CA 92501

Signature:



Title: Senior Environmental Planner

Date:

Date received for filing at OPR:

Authority cited: Sections 21083, Public Resources Code.
Reference Section 21000-21174, Public Resources Code.

RIVERSIDE COUNTY CLERK & RECORDER

**AUTHORIZATION
TO BILL
BY JOURNAL VOUCHER**

Project Name: Southwest Justice Center Courts Relocation Project, French Valley,
County of Riverside

Accounting String: 542040-30100-7200800000--FM08110005083

DATE: January 27, 2016

AGENCY: Riverside County Economic Development Agency

THIS AUTHORIZES THE COUNTY CLERK & RECORDER TO BILL FOR FILING AND
HANDLING FEES FOR THE ACCOMPANYING DOCUMENT(S).

NUMBER OF DOCUMENTS INCLUDED: One (1)

AUTHORIZED BY: Mike Sullivan, Senior Environmental Planner, Economic
Development Agency

Signature: 

PRESENTED BY: Erik Sydow, Facilities Project Manager III, Economic Development
Agency

-TO BE FILLED IN BY COUNTY CLERK-

ACCEPTED BY: -

DATE: -

RECEIPT # (S) -



Date: January 27, 2016

To: Mary Ann Meyer, Office of the County Clerk

From: Mike Sullivan, Senior Environmental Planner, Project Management Office

Subject: **County of Riverside Economic Development Agency Project # FM08110005083**
Southwest Justice Center Courts Relocation Project, French Valley, Riverside County

The Riverside County's Economic Development Agency's Project Management Office is requesting that you post the attached Notice of Determination. Attached you will find an authorization to bill by journal voucher for your posting fee.

After posting, please return the document to:

Mail Stop #1330
Attention: Mike Sullivan, Senior Environmental Planner,
Economic Development Agency,
3403 10th Street, Suite 400, Riverside, CA 92501

If you have any questions, please contact Mike Sullivan at 955-8009.

Attachment

cc: file



Technical Memorandum

To: Sergio Pena, Supervising Facilities Project Manager
Riverside County Economic Development Agency

From: Eliza Laws, Senior Environmental Analyst
Brad Perrine, Associate Environmental Analyst
Albert A. Webb Associates

CC: John Alfred, Supervising Facilities Project Manager
Laura Ballesteros, Development Specialist
Riverside County Economic Development Agency

Date: December 5, 2014

Re: Air Quality/Greenhouse Gas Analysis for Southwest Justice Center Juvenile Courts Relocation Project, Riverside County, California

The following air quality and greenhouse gas (GHG) analysis was prepared to evaluate whether the expected criteria air pollutant emissions and/or criteria GHG emissions generated as a result of construction and operation of the above-referenced Project would exceed the South Coast Air Quality Management District's (SCAQMD) thresholds for air quality and draft screening significance thresholds, respectively, in the Project area. The analysis was conducted within the context of the California Environmental Quality Act (CEQA), as set forth in California Public Resources Code Sections 21000 *et seq.* The methodology follows the CEQA *Air Quality Handbook* prepared by the SCAQMD for quantification of emissions and evaluation of potential impacts to air resources. As recommended by SCAQMD staff, the **California Emissions Estimator Model** (CalEEMod) version 2013.2.2 was used to quantify Project-related emissions.

The Project entails the construction and operation of a building and necessary agreements facilitating the addition of two courtrooms handling juvenile dependency and delinquency case types and ancillary office space as well as additional surface parking areas, access roads, and walkways at the Southwest Justice Center (SWJC) campus in the unincorporated French Valley area of Riverside County. The Project site comprises approximately three acres of disturbed but undeveloped land located entirely within the existing 48-acre parcel of the SWJC. The proposed building will encompass approximately 14,336 square feet, and the proposed parking area will accommodate 55 public parking spaces. No off-site improvements are proposed with the Project.

- **Regional Significance Threshold Analysis**

The thresholds contained in the *CEQA Air Quality Handbook* are considered regional thresholds and are shown on **Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds**, below.¹ These regional thresholds were developed based on the SCAQMD's treatment of a major stationary source.

Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds

Emission Threshold	Units	VOC	NO _x	CO	SO _x	PM-10	PM-2.5
Construction	lbs/day	75	100	550	150	150	55
Operation	lbs/day	55	55	550	150	150	55

Air quality impacts can be described in a short- and long-term perspective. Short-term impacts occur during site grading and Project construction and consist of fugitive dust and other particulate matter, as well as exhaust emissions generated by construction-related vehicles. Long-term air quality impacts occur once the Project is in operation.

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 miles per hour, and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of the Project area (approximately 3 acres) a Fugitive Dust Control Plan or Large Operation Notification is not required.

Short-Term Analysis

Short-term emissions from construction of the Project were evaluated using the CalEEMod version 2013.2.2 program. The total construction period for the proposed Project is approximately 14 months, beginning no earlier than August 1, 2015. The default parameters within CalEEMod were used and these default values reflect a worst-case scenario, which means that Project emissions are expected to be equal to or less than the estimated emissions. In addition to the default values used, assumptions relevant to model inputs for short-term construction emission estimates used are as follows:

- Construction is anticipated to begin on August 1, 2015, with site grading and will end with paving in October 2016. The modeled schedule is shown below:

¹ South Coast Air Quality Management District, *CEQA Air Quality Handbook*, November 1993. (Available at SCAQMD.)

Construction Activity	Start Date	End Date	Total Working Days
Grading	8/1/2015	9/30/2015	43 days
Building Construction	10/1/2015	9/30/2016	262 days
Architectural Coating	6/13/2016	9/30/2016	80 days
Paving	10/1/2016	10/31/2016	21 days

- The CalEEMod default off-road equipment was used for each activity and is shown below, assuming each piece of equipment operates eight hours a day:

Construction Activity	Off-Road Equipment	Unit Amount	Hours/day
Grading	Excavators	1	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Tractors/Loaders/Backhoes	3	8
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Architectural Coating	Air Compressors	1	8
Paving	Cement & Mortar Mixers	2	8
	Pavers	1	8
	Paving Equipment	2	8
	Rollers	2	8
	Tractors/Loaders/Backhoes	1	8

- Daily trips were added for water trucks to suppress fugitive dust emissions.

The results of this modeling analysis are summarized below.

Table 2 – Maximum Estimated Daily Construction Emissions

Activity/Year	Peak Daily Emissions (lb/day)					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Construction Thresholds	75	100	550	150	150	55
2015						
Grading	3.91	40.70	27.81	0.03	8.64	5.51
Building Construction	4.33	34.96	25.62	0.04	3.07	2.38
2016						
Building Construction	4.01	33.03	24.86	0.04	2.90	2.22
Architectural Coating	27.75	3.39	3.31	0.00	0.40	0.30
Paving	2.35	22.14	16.30	0.02	1.56	1.28
Maximum¹	31.76	40.70	28.17	0.04	8.64	5.51
Exceeds Threshold?	No	No	No	No	No	No

Note: Maximum emissions reported above are the greater of summer or winter emissions and are subject to rounding from the CalEEMod output.

¹ Maximum emissions are the greater of grading alone, paving alone, or the sum of building construction in 2016 and architectural coating in 2016 since those activities may overlap.

As shown on the table above, the emissions from construction of the Project are below the SCAQMD Daily Construction Thresholds for all criteria pollutants.

Long-Term Analysis

Long-term emissions are evaluated at build-out of a project. The Project is assumed to be operational in 2016. Mobile source emissions refer to on-road motor vehicle emissions generated from the Project's traffic. Area source emissions from the Project include stationary combustion emissions of natural gas used for space and water heating (shown in a separate row as energy), yard and landscape maintenance, consumer use of solvents and personal care products, and an average building square footage to be repainted each year. CalEEMod computes area source emissions based upon default factors and land use assumptions. Separate emissions were computed for both the summer and winter.

Table 3 – Estimated Daily Project Operation Emissions (Summer)

Source	Peak Daily Emissions (lb/day)					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Thresholds	55	55	550	150	150	55
Area	3.19	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.01	0.01	0.00	0.00	0.00
Mobile	3.45	8.81	32.66	0.07	5.05	1.43
Total	6.64	8.82	32.68	0.07	5.05	1.43
Exceeds Threshold?	No	No	No	No	No	No

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Table 4 – Estimated Daily Project Operation Emissions (Winter)

Source	Peak Daily Emissions (lb/day)					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Thresholds	55	55	550	150	150	55
Area	3.19	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.01	0.01	0.00	0.00	0.00
Mobile	3.38	9.16	31.21	0.07	5.05	1.43
Total	6.57	9.17	31.23	0.07	5.05	1.43
Exceeds Threshold?	No	No	No	No	No	No

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Evaluation of the data presented on the above tables indicates that criteria pollutant emissions from operation of this Project will not exceed the SCAQMD regional daily thresholds for any pollutant during summer or winter.

- Localized Significance Threshold Analysis**

Background

As part of the SCAQMD's environmental justice program, attention has been focused on localized effects of air quality. Staff at SCAQMD has developed localized significance threshold (LST) methodology that can be used by public agencies to determine whether or not a project

may generate significant adverse localized air quality impacts (both short- and long-term).² LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area (SRA). The Project is located within SRA 26.

Short-Term Analysis

According to the LST methodology, only on-site emissions need to be analyzed. Emissions associated with vendor and worker trips are mobile source emissions that occur off site. The emissions analyzed under the LST methodology are NO_x, CO, PM-10, and PM-2.5. SCAQMD has provided LST lookup tables and sample construction scenarios to allow users to readily determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts for projects five acres or smaller.³ Although the Project site is approximately three acres, the Project is estimated to disturb a smaller area per day. A daily disturbance area of one acre was estimated in accordance with SCAQMD methodology.⁴ Therefore, the one-acre LST lookup table was utilized to estimate the construction emissions.

The LST thresholds are estimated using the maximum daily disturbed area (in acres) and the distance of the Project to the nearest sensitive receptors (in meters). The closest receptor is an existing single-family residence across Leon Road, approximately 538 feet (164 meters) east of the site. A receptor distance of 100 meters (328 feet) was used to be conservative since the LST Look-Up tables do not include thresholds for 164 meters, which is between the thresholds for receptors located 100 or 200 meters away. The results are summarized below for the construction activity with the most heavy-duty construction equipment.

Table 5 – LST Results for Daily Construction Emissions

Pollutant	Peak Daily Emissions (lb/day)			
	NO _x	CO	PM-10	PM-2.5
LST Threshold for 1 acre at 100 meters	292	2,176	30	8
Grading	42.7	26.3	3.0	2.2
Building Construction	32.5	21.7	1.8	1.6
Paving & Architectural Coatings	35.5	24.3	2.4	2.2
Exceeds Threshold?	No	No	No	No

As shown on the above table, emissions from construction of the Project will be below the LST established by SCAQMD.

² South Coast Air Quality Management District, *Final Localized Significance Threshold Methodology*, Revised July 2008. (Available at <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>, accessed December 4, 2014.)

³ <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>

⁴ <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf>

Long-Term Analysis

According to SCAQMD LST methodology, LSTs apply to the operational phase of a project if the project includes stationary sources or attracts mobile sources that may spend long periods queuing and idling at the site. The proposed Project does not include such uses. Therefore, due to the lack of stationary source emissions, no long-term LST analysis is needed.

• Greenhouse Gas Analysis

GHG are not presented in lbs/day like criteria pollutants; they are typically evaluated on an annual basis using the metric system. Additionally, unlike the criteria pollutants, GHG do not have adopted significance thresholds associated with them at this time. Several agencies, at various levels, have proposed draft GHG significance thresholds for use in CEQA documents. SCAQMD has been working on GHG thresholds for development projects as well. In December 2008, the SCAQMD adopted a threshold of 10,000 metric tonnes of carbon dioxide equivalents per year (MTCO₂E/yr) for stationary sources projects for which SCAQMD was the lead agency. The most recent draft proposal was in September 2010 and included significance thresholds for residential, commercial, and mixed-use projects at 3,500, 1,400, and 3,000 MTCO₂E/yr, respectively.⁵ Alternatively, a lead agency has the option to use 3,000 MTCO₂E/yr as a threshold for all non-industrial projects. Although both options are recommended by SCAQMD, a lead agency is advised to use only one option and to use it consistently. The SCAQMD significance thresholds also evaluate construction emissions by amortizing them over an expected project life of 30 years.

The CalEEMod output results for construction-related GHG emissions present the GHG emissions estimates for the Project for CO₂, methane (CH₄), nitrous oxide (N₂O), and CO₂E.⁶

Short-Term Analysis

Construction-Related Emissions

The CalEEMod model calculates GHG emissions from fuel usage by construction equipment and construction-related activities, like construction worker trips, for the Project. The CalEEMod estimate does not analyze emissions from construction-related electricity or natural gas. Construction-related electricity and natural gas emissions vary based on the amount of electric power used during construction and other unknown factors which make them too speculative to quantify.

Table 6 – Project Construction Equipment GHG Emissions

Year	Metric Tons per year (MT/yr)			
	Total CO ₂	Total CH ₄	Total N ₂ O	Total CO ₂ E
2015	183.30	0.04	0.00	184.17
2016	390.25	0.07	0.00	391.83
Total	573.55	0.11	0.00	576.00

⁵ [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf), accessed December 4, 2014.

⁶ CO₂E is the sum of CO₂ emissions estimated plus the sum of CH₄ and N₂O emissions estimated multiplied by their respective global warming potential (GWP).

Evaluation of the table above indicates that an estimated 576.00 MTCO₂E will occur from Project construction equipment over the course of the estimated construction period. The draft SCAQMD GHG threshold guidance document released in October 2008, on page 3-8, recommends that construction emissions be amortized for a project lifetime of 30 years to ensure that GHG reduction measures address construction GHG emissions as part of the operational reduction strategies. Therefore, the Project's GHG emissions were spread evenly over 30 years to yield an average of 19.20 MTCO₂E/yr. These results were included in the analysis of the Project's total GHG emissions on **Table 8 – Total Project-Related GHG Emissions**, below.

Long-Term Analysis

Area Source Emissions

CalEEMod estimates the GHG emissions associated with area sources which include landscape equipment emissions, architectural coating, consumer products, and hearths. Landscape equipment servicing the Project site create CO₂ resulting from fuel combustion based on the Project's land uses. Consumer products consist of consumer use of solvents and personal care products and architectural coatings consist of an average building square footage to be repainted each year. Hearth emissions do not apply to the Project because no dwelling units are proposed. The CalEEMod output contained in the attached output shows that the GHG emissions from area sources are negligible and are reported at zero for architectural coatings and consumer products and for landscaping.

Energy-Related Emissions

CalEEMod estimates the GHG emissions associated with building electricity and natural gas usage (non-hearth) for each land use type. Electricity and natural gas used in buildings is typically generated at an off-site power plant which indirectly generates GHG emissions. The default energy usage values used in CalEEMod are based on the CEC sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies and reflect 2008 Title 24 improvements (CalEEMod User's Guide, p. 30.). The following table summarizes the GHG emissions estimates reported by CalEEMod for the Project.

Table 7 – Energy-Related GHG Emissions

Source	Metric Tons per year (MT/yr)			
	CO ₂	CH ₄	N ₂ O	Total CO ₂ E
Electricity	53.52	0.00	0.00	53.73
Natural Gas	2.79	0.00	0.00	2.81
Total	56.31	0.00	0.00	56.54

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Mobile Source Emissions

CalEEMod estimates the annual GHG emissions from Project-related vehicle usage based on trip generation data contained in defaults or in a project-specific traffic analyses. The information provided in the trip generation data contained in CalEEMod defaults was used herein. **Table 8** shows the mobile source emissions from the Project.

Solid Waste Emissions

CalEEMod also calculates the GHG emissions associated with the disposal of solid waste into landfills based on default data contained within the model for waste disposal rates, composition, and the characteristics of landfills throughout the state. **Table 8** shows the mobile source emissions from the Project.

Water-Related Energy Usage

Electricity is also indirectly used in water supply, treatment, and distribution, as well as wastewater treatment in Southern California and plays a large role in GHG production.

There are three processes necessary to supply potable water to urban users (i.e., residential, commercial, and industrial): (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, the wastewater is treated and either reused as reclaimed/recycled water or returned to the environment. CalEEMod calculates the GHG emissions from these processes based on default emissions factors and water/wastewater generation rates for a project's location. Default values were used for electricity intensity factor associated with the supply and conveyance of water from its source which assumes that the water is being imported from Northern California. **Table 8** shows the GHG emissions from water-related energy usage for the Project.

Total Project GHG Emissions

As shown on **Table 8 – Total Project-Related GHG Emissions**, using all the emissions quantified above, the total GHG emissions generated from the Project is approximately 817.85 MTCO₂E/yr which includes construction-related emissions amortized over a typical project life of 30 years.

Table 8 – Total Project-Related GHG Emissions

Source	Metric Tons per year (MT/yr)			
	CO ₂	CH ₄	N ₂ O	Total CO ₂ E
Amortized Construction	--	--	--	19.20
Area	0.00	0.00	0.00	0.00
Energy	56.31	0.00	0.00	56.54
Mobile	715.75	0.03	0.00	716.28
Solid Waste	2.71	0.16	0.00	6.07
Water	17.07	0.09	0.00	19.76
Total	791.84	0.28	0.00	817.85

The total GHG emissions from the Project are below the lowest SCAQMD recommended screening level of 1,400 MTCO₂E/yr for commercial projects. Therefore, the proposed Project will not exceed any draft GHG screening thresholds.

• Conclusion

The conclusion of this analysis indicates that the proposed Project will not exceed criteria pollutant thresholds established by SCAQMD on a regional or localized level. The Project will also not exceed any draft GHG screening threshold recommended by SCAQMD.

CALEEMOD OUTPUT FILES

SWJC Juvenile Courts Relocation Project

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	14.34	1000sqft	0.33	14,336.00	0
Other Non-Asphalt Surfaces	1.80	Acre	1.80	78,408.00	0
Parking Lot	38.39	1000sqft	0.88	38,385.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - See table

Off-road Equipment - See table

Off-road Equipment - See table

Off-road Equipment - See table

Trips and VMT - Water truck trips added

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	80.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	8.00	43.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	PhaseEndDate	1/20/2017	9/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	6/13/2016
tblGrading	AcresOfGrading	21.50	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	21.00	23.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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	4.3188	40.6828	27.8086	0.0408	6.3010	2.3333	8.6343	3.3689	2.1737	5.5156	0.0000	3,999.924	3,999.924	0.9423	0.0000	4,019.712	
2016	31.7591	36.3484	28.1794	0.0466	0.8838	2.4172	3.3010	0.2376	2.2832	2.5208	0.0000	4,488.637	4,488.637	0.7995	0.0000	4,505.427	
Total	36.0779	77.0311	55.9880	0.0874	7.1848	4.7505	11.9353	3.6066	4.4569	8.0364	0.0000	8,488.561	8,488.561	1.7418	0.0000	8,525.139	

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	4.3188	40.6828	27.8086	0.0408	6.3010	2.3333	8.6343	3.3689	2.1737	5.5156	0.0000	3,999.924	3,999.924	0.9423	0.0000	4,019.712	
2016	31.7591	36.3484	28.1794	0.0466	0.8838	2.4172	3.3010	0.2376	2.2832	2.5208	0.0000	4,488.637	4,488.637	0.7995	0.0000	4,505.427	
Total	36.0779	77.0311	55.9880	0.0874	7.1848	4.7505	11.9353	3.6066	4.4569	8.0364	0.0000	8,488.561	8,488.561	1.7418	0.0000	8,525.139	

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0119	0.0119	3.0000e-005			0.0126
Energy	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	16.8659	16.8659	3.2000e-004	3.1000e-004		16.9685
Mobile	3.4482	8.8083	32.6614	0.0734	4.9300	0.1234	5.0533	1.3156	0.1134	1.4291	6,424.185 5	6,424.185 5	0.2150			6,428.701 3
Total	6.6429	8.8224	32.6789	0.0735	4.9300	0.1245	5.0544	1.3156	0.1145	1.4302	6,441.063 3	6,441.063 3	0.2154	3.1000e-004		6,445.682 4

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0119	0.0119	3.0000e-005			0.0126
Energy	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	16.8659	16.8659	3.2000e-004	3.1000e-004		16.9685
Mobile	3.4482	8.8083	32.6614	0.0734	4.9300	0.1234	5.0533	1.3156	0.1134	1.4291	6,424.185 5	6,424.185 5	0.2150			6,428.701 3
Total	6.6429	8.8224	32.6789	0.0735	4.9300	0.1245	5.0544	1.3156	0.1145	1.4302	6,441.063 3	6,441.063 3	0.2154	3.1000e-004		6,445.682 4

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2015	9/30/2015	5	43	
2	Building Construction	Building Construction	10/1/2015	9/30/2016	5	262	
3	Architectural Coating	Architectural Coating	6/13/2016	9/30/2016	5	80	
4	Paving	Paving	10/1/2016	10/31/2016	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 140,843; Non-Residential Outdoor: 46,948 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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
Grading	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	23.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 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					6.1207	0.0000	6.1207	3.3209	0.0000	3.3209			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421	3,129.015 8	3,129.015 8	0.9341			3,148.632 8
Total	3.8327	40.4161	26.6731	0.0298	6.1207	2.3284	8.4491	3.3209	2.1421	5.4630	3,129.015 8	3,129.015 8	0.9341			3,148.632 8

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	0.0000	0.0000	
Vendor	0.0176	0.1909	0.1888	4.2000e-004	0.0126	3.8600e-003	0.0164	3.5900e-003	3.5500e-003	7.1400e-003	42.7537	42.7537	3.1000e-004			42.7602	
Worker	0.0639	0.0758	0.9467	2.0100e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455	172.7297	172.7297	7.8600e-003			172.8947	
Total	0.0814	0.2667	1.1355	2.4300e-003	0.1802	4.9500e-003	0.1852	0.0481	4.5500e-003	0.0526		215.4834	215.4834	8.1700e-003			215.6549

3.2 Grading - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1207	0.0000	6.1207	3.3209	0.0000	3.3209			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421	0.0000	3,129.015 8	3,129.015 8	0.9341		3,148.632 8
Total	3.8327	40.4161	26.6731	0.0298	6.1207	2.3284	8.4491	3.3209	2.1421	5.4630	0.0000	3,129.015 8	3,129.015 8	0.9341		3,148.632 8

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	0.0176	0.1909	0.1888	4.2000e-004	0.0126	3.8600e-003	0.0164	3.5900e-003	3.5500e-003	7.1400e-003			42.7537	42.7537	3.1000e-004	42.7602
Worker	0.0639	0.0758	0.9467	2.0100e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455			172.7297	172.7297	7.8600e-003	172.8947
Total	0.0814	0.2667	1.1355	2.4300e-003	0.1802	4.9500e-003	0.1852	0.0481	4.5500e-003	0.0526			215.4834	215.4834	8.1700e-003	215.6549

3.3 Building Construction - 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					
Off-Road	3.8870	32.4182	20.0375	0.0287		2.2678	2.2678		2.1293	2.1293		2,886.429	2,886.429	0.7336		2,901.834	
Total	3.8870	32.4182	20.0375	0.0287		2.2678	2.2678		2.1293	2.1293		2,886.429	2,886.429	0.7336		2,901.834	

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	0.2019	2.1954	2.1717	4.8500e-003	0.1447	0.0443	0.1891	0.0413	0.0408	0.0821		491.6678	491.6678	3.5400e-003		491.7421	
Worker	0.2300	0.2727	3.4080	7.2400e-003	0.6036	3.9400e-003	0.6075	0.1601	3.6100e-003	0.1637		621.8270	621.8270	0.0283		622.4210	
Total	0.4318	2.4681	5.5797	0.0121	0.7483	0.0483	0.7966	0.2014	0.0444	0.2458		1,113.494	1,113.494	0.0318		1,114.163	

3.3 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Off-Road	3.8870	32.4182	20.0375	0.0287		2.2678	2.2678		2.1293	2.1293	0.0000	2,886.4292	2,886.4292	0.7336		2,901.8345	
Total	3.8870	32.4182	20.0375	0.0287		2.2678	2.2678		2.1293	2.1293	0.0000	2,886.4292	2,886.4292	0.7336		2,901.8345	

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	0.0000	0.0000	
Vendor	0.2019	2.1954	2.1717	4.8500e-003	0.1447	0.0443	0.1891	0.0413	0.0408	0.0821	491.6678	491.6678	3.5400e-003			491.7421	
Worker	0.2300	0.2727	3.4080	7.2400e-003	0.6036	3.9400e-003	0.6075	0.1601	3.6100e-003	0.1637	621.8270	621.8270	0.0283			622.4210	
Total	0.4318	2.4681	5.5797	0.0121	0.7483	0.0483	0.7966	0.2014	0.0444	0.2458	1,113.4948	1,113.4948	0.0318			1,114.1631	

3.3 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	3.6240	30.7934	19.7845	0.0287		2.1098	2.1098		1.9794	1.9794		2,863.944	2,863.944	0.7208		2,879.080	
Total	3.6240	30.7934	19.7845	0.0287		2.1098	2.1098		1.9794	1.9794		2,863.944	2,863.944	0.7208		2,879.080	

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	0.1789	1.9301	2.0211	4.8400e-003	0.1447	0.0375	0.1822	0.0413	0.0345	0.0758		485.9444	485.9444	3.1600e-003		486.0108	
Worker	0.2069	0.2443	3.0624	7.2400e-003	0.6036	3.7700e-003	0.6074	0.1601	3.4700e-003	0.1635		599.1741	599.1741	0.0258		599.7168	
Total	0.3858	2.1744	5.0834	0.0121	0.7483	0.0412	0.7895	0.2014	0.0379	0.2393		1,085.118	1,085.118	0.0290		1,085.727	

3.3 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Off-Road	3.6240	30.7934	19.7845	0.0287		2.1098	2.1098		1.9794	1.9794	0.0000	2,863.944	2,863.944	0.7208		2,879.080	
Total	3.6240	30.7934	19.7845	0.0287		2.1098	2.1098		1.9794	1.9794	0.0000	2,863.944	2,863.944	0.7208		2,879.080	

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	0.0000	0.0000	
Vendor	0.1789	1.9301	2.0211	4.8400e-003	0.1447	0.0375	0.1822	0.0413	0.0345	0.0758	485.9444	485.9444	3.1600e-003			486.0108	
Worker	0.2069	0.2443	3.0624	7.2400e-003	0.6036	3.7700e-003	0.6074	0.1601	3.4700e-003	0.1635	599.1741	599.1741	0.0258			599.7168	
Total	0.3858	2.1744	5.0834	0.0121	0.7483	0.0412	0.7895	0.2014	0.0379	0.2393	1,085.118	1,085.118	0.0290			1,085.727	

3.4 Architectural Coating - 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					
Archit. Coating	27.2004						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.4913	3.1630	2.5119	3.9600e-003		0.2622	0.2622		0.2622	0.2622		375.2641	375.2641	0.0442		376.1932
Total	27.6916	3.1630	2.5119	3.9600e-003		0.2622	0.2622		0.2622	0.2622		375.2641	375.2641	0.0442		376.1932

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	0.0156	0.1678	0.1758	4.2000e-004	0.0126	3.2600e-003	0.0158	3.5900e-003	3.0000e-003	6.5900e-003		42.2560	42.2560	2.7000e-004		42.2618
Worker	0.0422	0.0498	0.6238	1.4800e-003	0.1230	7.7000e-004	0.1237	0.0326	7.1000e-004	0.0333		122.0540	122.0540	5.2600e-003		122.1645
Total	0.0577	0.2176	0.7996	1.9000e-003	0.1355	4.0300e-003	0.1396	0.0362	3.7100e-003	0.0399		164.3100	164.3100	5.5300e-003		164.4263

3.4 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.2004						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Off-Road	0.4913	3.1630	2.5119	3.9600e-003		0.2622	0.2622		0.2622	0.2622	0.0000	375.2641	375.2641	0.0442		376.1932
Total	27.6916	3.1630	2.5119	3.9600e-003		0.2622	0.2622		0.2622	0.2622	0.0000	375.2641	375.2641	0.0442		376.1932

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		0.0000
Vendor	0.0156	0.1678	0.1758	4.2000e-004	0.0126	3.2600e-003	0.0158	3.5900e-003	3.0000e-003	6.5900e-003	42.2560	42.2560	2.7000e-004			42.2618
Worker	0.0422	0.0498	0.6238	1.4800e-003	0.1230	7.7000e-004	0.1237	0.0326	7.1000e-004	0.0333	122.0540	122.0540	5.2600e-003			122.1645
Total	0.0577	0.2176	0.7996	1.9000e-003	0.1355	4.0300e-003	0.1396	0.0362	3.7100e-003	0.0399		164.3100	164.3100	5.5300e-003		164.4263

3.5 Paving - 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	2.1469	21.8663	14.9949	0.0223		1.3170	1.3170		1.2140	1.2140	2,272.060 3	2,272.060 3	0.6654			2,286.032 6
Paving	0.1098					0.0000	0.0000		0.0000	0.0000		0.0000				0.0000
Total	2.2567	21.8663	14.9949	0.0223		1.3170	1.3170		1.2140	1.2140	2,272.060 3	2,272.060 3	0.6654			2,286.032 6

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	0.0000	0.0000
Vendor	0.0156	0.1678	0.1758	4.2000e-004	0.0126	3.2600e-003	0.0158	3.5900e-003	3.0000e-003	6.5900e-003	42.2560	42.2560	2.7000e-004			42.2618
Worker	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606	221.9163	221.9163	9.5700e-003			222.1173
Total	0.0922	0.2583	1.3100	3.1000e-003	0.2361	4.6600e-003	0.2408	0.0629	4.2800e-003	0.0672		264.1724	264.1724	9.8400e-003		264.3791

3.5 Paving - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1469	21.8663	14.9949	0.0223		1.3170	1.3170		1.2140	1.2140	0.0000	2,272.060 3	2,272.060 3	0.6654		2,286.032 6
Paving	0.1098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2567	21.8663	14.9949	0.0223		1.3170	1.3170		1.2140	1.2140	0.0000	2,272.060 3	2,272.060 3	0.6654		2,286.032 6

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	0.0000	0.0000
Vendor	0.0156	0.1678	0.1758	4.2000e-004	0.0126	3.2600e-003	0.0158	3.5900e-003	3.0000e-003	6.5900e-003	42.2560	42.2560	2.7000e-004			42.2618
Worker	0.0766	0.0905	1.1342	2.6800e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606	221.9163	221.9163	9.5700e-003			222.1173
Total	0.0922	0.2583	1.3100	3.1000e-003	0.2361	4.6600e-003	0.2408	0.0629	4.2800e-003	0.0672		264.1724	264.1724	9.8400e-003		264.3791

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	3.4482	8.8083	32.6614	0.0734	4.9300	0.1234	5.0533	1.3156	0.1134	1.4291	6,424.185 5	6,424.185 5	0.2150			6,428.701 3	
Unmitigated	3.4482	8.8083	32.6614	0.0734	4.9300	0.1234	5.0533	1.3156	0.1134	1.4291	6,424.185 5	6,424.185 5	0.2150			6,428.701 3	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	988.18	0.00	0.00	1,662,095	1,662,095
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	988.18	0.00	0.00	1,662,095	1,662,095

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
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	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
0.462438	0.069856	0.176572	0.170752	0.045136	0.007399	0.012745	0.042494	0.000970	0.001060	0.006446	0.000893	0.003237

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	16.8659	16.8659	3.2000e-004	3.1000e-004		16.9685
NaturalGas Unmitigated	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	16.8659	16.8659	3.2000e-004	3.1000e-004		16.9685

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				
Government Office Building	143.36	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685
Other Non-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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685

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				
Other Non-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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government Office Building	0.14336	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685
Total		1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126	
Unmitigated	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126	

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	0.5962					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	2.5964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	5.6000e-004	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126	
Total	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126	

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	0.5962						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Consumer Products	2.5964						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	5.6000e-004	5.0000e-005	5.7100e-003	0.0000			2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005	0.0126
Total	3.1931	5.0000e-005	5.7100e-003	0.0000			2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005	0.0126

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

SWJC Juvenile Courts Relocation Project

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	14.34	1000sqft	0.33	14,336.00	0
Other Non-Asphalt Surfaces	1.80	Acre	1.80	78,408.00	0
Parking Lot	38.39	1000sqft	0.88	38,385.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - See table

Off-road Equipment - See table

Off-road Equipment - See table

Off-road Equipment - See table

Trips and VMT - Water truck trips added

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	80.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	8.00	43.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	PhaseEndDate	1/20/2017	9/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	6/13/2016
tblGrading	AcresOfGrading	21.50	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	21.00	23.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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	4.3220	40.6927	27.7036	0.0401	6.3010	2.3333	8.6343	3.3689	2.1742	5.5156	0.0000	3,942.1790	3,942.1790	0.9423	0.0000	3,961.9676	
2016	31.7604	36.4203	27.9704	0.0458	0.8838	2.4175	3.3014	0.2376	2.2836	2.5212	0.0000	4,421.9295	4,421.9295	0.7997	0.0000	4,438.7221	
Total	36.0824	77.1130	55.6740	0.0860	7.1848	4.7509	11.9357	3.6066	4.4577	8.0368	0.0000	8,364.1084	8,364.1084	1.7420	0.0000	8,400.6897	

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	4.3220	40.6927	27.7036	0.0401	6.3010	2.3333	8.6343	3.3689	2.1742	5.5156	0.0000	3,942.178	9	3,942.178	9	0.9423	0.0000	3,961.967	6
2016	31.7604	36.4203	27.9704	0.0458	0.8838	2.4175	3.3014	0.2376	2.2836	2.5212	0.0000	4,421.929	5	4,421.929	5	0.7997	0.0000	4,438.722	1
Total	36.0824	77.1130	55.6740	0.0860	7.1848	4.7509	11.9357	3.6066	4.4577	8.0368	0.0000	8,364.108	4	8,364.108	4	1.7420	0.0000	8,400.689	7

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Area	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126	
Energy	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685	
Mobile	3.3762	9.1629	31.2086	0.0685	4.9300	0.1241	5.0540	1.3156	0.1141	1.4297		6,012,308 6	6,012,308 6	0.2154		6,016,831 3	
Total	6.5708	9.1770	31.2261	0.0685	4.9300	0.1252	5.0551	1.3156	0.1152	1.4308		6,029,186 4	6,029,186 4	0.2157	3.1000e-004	6,033,812 5	

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Area	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126	
Energy	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685	
Mobile	3.3762	9.1629	31.2086	0.0685	4.9300	0.1241	5.0540	1.3156	0.1141	1.4297		6,012,308 6	6,012,308 6	0.2154		6,016,831 3	
Total	6.5708	9.1770	31.2261	0.0685	4.9300	0.1252	5.0551	1.3156	0.1152	1.4308		6,029,186 4	6,029,186 4	0.2157	3.1000e-004	6,033,812 5	

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2015	9/30/2015	5	43	
2	Building Construction	Building Construction	10/1/2015	9/30/2016	5	262	
3	Architectural Coating	Architectural Coating	6/13/2016	9/30/2016	5	80	
4	Paving	Paving	10/1/2016	10/31/2016	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 140,843; Non-Residential Outdoor: 46,948 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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
Grading	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	23.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 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					6.1207	0.0000	6.1207	3.3209	0.0000	3.3209			0.0000			0.0000	
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.015 8	3,129.015 8	0.9341		3,148.632 8	
Total	3.8327	40.4161	26.6731	0.0298	6.1207	2.3284	8.4491	3.3209	2.1421	5.4630		3,129.015 8	3,129.015 8	0.9341		3,148.632 8	

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	0.0187	0.1959	0.2127	4.2000e-004	0.0126	3.9000e-003	0.0165	3.5900e-003	3.5800e-003	7.1800e-003		42.3857	42.3857	3.2000e-004		42.3923	
Worker	0.0611	0.0808	0.8178	1.8400e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		157.8652	157.8652	7.8600e-003		158.0302	
Total	0.0798	0.2766	1.0305	2.2600e-003	0.1802	4.9900e-003	0.1852	0.0481	4.5800e-003	0.0527		200.2509	200.2509	8.1800e-003		200.4225	

3.2 Grading - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1207	0.0000	6.1207	3.3209	0.0000	3.3209			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421	0.0000	3,129.015 8	3,129.015 8	0.9341		3,148.632 8
Total	3.8327	40.4161	26.6731	0.0298	6.1207	2.3284	8.4491	3.3209	2.1421	5.4630	0.0000	3,129.015 8	3,129.015 8	0.9341		3,148.632 8

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	0.0187	0.1959	0.2127	4.2000e-004	0.0126	3.9000e-003	0.0165	3.5900e-003	3.5800e-003	7.1800e-003			42.3857	42.3857	3.2000e-004	42.3923
Worker	0.0611	0.0808	0.8178	1.8400e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455			157.8652	157.8652	7.8600e-003	158.0302
Total	0.0798	0.2766	1.0305	2.2600e-003	0.1802	4.9900e-003	0.1852	0.0481	4.5800e-003	0.0527			200.2509	200.2509	8.1800e-003	200.4225

3.3 Building Construction - 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					
Off-Road	3.8870	32.4182	20.0375	0.0287		2.2678	2.2678		2.1293	2.1293		2,886.429	2,886.429	0.7336		2,901.834	
Total	3.8870	32.4182	20.0375	0.0287		2.2678	2.2678		2.1293	2.1293		2,886.429	2,886.429	0.7336		2,901.834	

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	0.2151	2.2527	2.4457	4.8100e-003	0.1447	0.0448	0.1895	0.0413	0.0412	0.0826		487.4351	487.4351	3.6500e-003		487.5117	
Worker	0.2199	0.2908	2.9442	6.6100e-003	0.6036	3.9400e-003	0.6075	0.1601	3.6100e-003	0.1637		568.3147	568.3147	0.0283		568.9087	
Total	0.4350	2.5434	5.3899	0.0114	0.7483	0.0488	0.7971	0.2014	0.0448	0.2462		1,055.749	1,055.749	0.0319		1,056.420	

3.3 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Off-Road	3.8870	32.4182	20.0375	0.0287		2.2678	2.2678		2.1293	2.1293	0.0000	2,886.4292	2,886.4292	0.7336		2,901.8345	
Total	3.8870	32.4182	20.0375	0.0287		2.2678	2.2678		2.1293	2.1293	0.0000	2,886.4292	2,886.4292	0.7336		2,901.8345	

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	0.0000	0.0000	
Vendor	0.2151	2.2527	2.4457	4.8100e-003	0.1447	0.0448	0.1895	0.0413	0.0412	0.0826	487.4351	487.4351	3.6500e-003			487.5117	
Worker	0.2199	0.2908	2.9442	6.6100e-003	0.6036	3.9400e-003	0.6075	0.1601	3.6100e-003	0.1637	568.3147	568.3147	0.0283			568.9087	
Total	0.4350	2.5434	5.3899	0.0114	0.7483	0.0488	0.7971	0.2014	0.0448	0.2462	1,055.7498	1,055.7498	0.0319			1,056.4204	

3.3 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	3.6240	30.7934	19.7845	0.0287		2.1098	2.1098		1.9794	1.9794		2,863.944	2,863.944	0.7208		2,879.080	
Total	3.6240	30.7934	19.7845	0.0287		2.1098	2.1098		1.9794	1.9794		2,863.944	2,863.944	0.7208		2,879.080	

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	0.1906	1.9785	2.2980	4.8000e-003	0.1447	0.0378	0.1825	0.0413	0.0348	0.0761		481.7389	481.7389	3.2700e-003		481.8075	
Worker	0.1974	0.2603	2.6387	6.6100e-003	0.6036	3.7700e-003	0.6074	0.1601	3.4700e-003	0.1635		547.5529	547.5529	0.0258		548.0956	
Total	0.3880	2.2388	4.9367	0.0114	0.7483	0.0416	0.7899	0.2014	0.0382	0.2396		1,029.291	1,029.291	0.0291		1,029.903	

3.3 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Off-Road	3.6240	30.7934	19.7845	0.0287		2.1098	2.1098		1.9794	1.9794	0.0000	2,863.944	2,863.944	0.7208		2,879.080	
Total	3.6240	30.7934	19.7845	0.0287		2.1098	2.1098		1.9794	1.9794	0.0000	2,863.944	2,863.944	0.7208		2,879.080	

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	0.0000	0.0000	
Vendor	0.1906	1.9785	2.2980	4.8000e-003	0.1447	0.0378	0.1825	0.0413	0.0348	0.0761	481.7389	481.7389	3.2700e-003			481.8075	
Worker	0.1974	0.2603	2.6387	6.6100e-003	0.6036	3.7700e-003	0.6074	0.1601	3.4700e-003	0.1635	547.5529	547.5529	0.0258			548.0956	
Total	0.3880	2.2388	4.9367	0.0114	0.7483	0.0416	0.7899	0.2014	0.0382	0.2396	1,029.291	1,029.291	0.0291			1,029.903	

3.4 Architectural Coating - 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					
Archit. Coating	27.2004						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.4913	3.1630	2.5119	3.9600e-003		0.2622	0.2622		0.2622	0.2622		375.2641	375.2641	0.0442		376.1932
Total	27.6916	3.1630	2.5119	3.9600e-003		0.2622	0.2622		0.2622	0.2622		375.2641	375.2641	0.0442		376.1932

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		0.0000
Vendor	0.0166	0.1721	0.1998	4.2000e-004	0.0126	3.2900e-003	0.0159	3.5900e-003	3.0200e-003	6.6200e-003	41.8903	41.8903	2.8000e-004			41.8963
Worker	0.0402	0.0530	0.5375	1.3500e-003	0.1230	7.7000e-004	0.1237	0.0326	7.1000e-004	0.0333	111.5386	111.5386	5.2600e-003			111.6491
Total	0.0568	0.2251	0.7373	1.7700e-003	0.1355	4.0600e-003	0.1396	0.0362	3.7300e-003	0.0399		153.4289	153.4289	5.5400e-003		153.5454

3.4 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.2004						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.4913	3.1630	2.5119	3.9600e-003		0.2622	0.2622		0.2622	0.2622	0.0000	375.2641	375.2641	0.0442		376.1932
Total	27.6916	3.1630	2.5119	3.9600e-003		0.2622	0.2622		0.2622	0.2622	0.0000	375.2641	375.2641	0.0442		376.1932

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		0.0000
Vendor	0.0166	0.1721	0.1998	4.2000e-004	0.0126	3.2900e-003	0.0159	3.5900e-003	3.0200e-003	6.6200e-003	41.8903	41.8903	2.8000e-004			41.8963
Worker	0.0402	0.0530	0.5375	1.3500e-003	0.1230	7.7000e-004	0.1237	0.0326	7.1000e-004	0.0333	111.5386	111.5386	5.2600e-003			111.6491
Total	0.0568	0.2251	0.7373	1.7700e-003	0.1355	4.0600e-003	0.1396	0.0362	3.7300e-003	0.0399		153.4289	153.4289	5.5400e-003		153.5454

3.5 Paving - 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	2.1469	21.8663	14.9949	0.0223		1.3170	1.3170		1.2140	1.2140	2,272.060 3	2,272.060 3	0.6654			2,286.032 6
Paving	0.1098					0.0000	0.0000		0.0000	0.0000		0.0000				0.0000
Total	2.2567	21.8663	14.9949	0.0223		1.3170	1.3170		1.2140	1.2140	2,272.060 3	2,272.060 3	0.6654			2,286.032 6

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	0.0166	0.1721	0.1998	4.2000e-004	0.0126	3.2900e-003	0.0159	3.5900e-003	3.0200e-003	6.6200e-003	41.8903	41.8903	2.8000e-004			41.8963
Worker	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606	202.7974	202.7974	9.5700e-003			202.9984
Total	0.0897	0.2685	1.1771	2.8700e-003	0.2361	4.6900e-003	0.2408	0.0629	4.3000e-003	0.0672		244.6877	244.6877	9.8500e-003		244.8947

3.5 Paving - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Off-Road	2.1469	21.8663	14.9949	0.0223		1.3170	1.3170		1.2140	1.2140	0.0000	2,272.060 3	2,272.060 3	0.6654		2,286.032 6	
Paving	0.1098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Total	2.2567	21.8663	14.9949	0.0223		1.3170	1.3170		1.2140	1.2140	0.0000	2,272.060 3	2,272.060 3	0.6654		2,286.032 6	

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	0.0166	0.1721	0.1998	4.2000e-004	0.0126	3.2900e-003	0.0159	3.5900e-003	3.0200e-003	6.6200e-003		41.8903	41.8903	2.8000e-004		41.8963	
Worker	0.0731	0.0964	0.9773	2.4500e-003	0.2236	1.4000e-003	0.2250	0.0593	1.2800e-003	0.0606		202.7974	202.7974	9.5700e-003		202.9984	
Total	0.0897	0.2685	1.1771	2.8700e-003	0.2361	4.6900e-003	0.2408	0.0629	4.3000e-003	0.0672		244.6877	244.6877	9.8500e-003		244.8947	

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	3.3762	9.1629	31.2086	0.0685	4.9300	0.1241	5.0540	1.3156	0.1141	1.4297	6,012.308	6,012.308	0.2154			6,016.831	
Unmitigated	3.3762	9.1629	31.2086	0.0685	4.9300	0.1241	5.0540	1.3156	0.1141	1.4297	6,012.308	6,012.308	0.2154			6,016.831	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	988.18	0.00	0.00	1,662,095	1,662,095
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	988.18	0.00	0.00	1,662,095	1,662,095

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
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	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
0.462438	0.069856	0.176572	0.170752	0.045136	0.007399	0.012745	0.042494	0.000970	0.001060	0.006446	0.000893	0.003237

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	16.8659	16.8659	3.2000e-004	3.1000e-004		16.9685
NaturalGas Unmitigated	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	16.8659	16.8659	3.2000e-004	3.1000e-004		16.9685

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				
Government Office Building	143.36	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685
Other Non-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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685

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				
Other Non-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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government Office Building	0.14336	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685
Total		1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8659	16.8659	3.2000e-004	3.1000e-004	16.9685

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126	
Unmitigated	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126	

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	0.5962					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000
Consumer Products	2.5964					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000
Landscaping	5.6000e-004	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126
Total	3.1931	5.0000e-005	5.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126

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	0.5962						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Consumer Products	2.5964						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Landscaping	5.6000e-004	5.0000e-005	5.7100e-003	0.0000			2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005	0.0126	
Total	3.1931	5.0000e-005	5.7100e-003	0.0000			2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0119	0.0119	3.0000e-005		0.0126

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

SWJC Juvenile Courts Relocation Project

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	14.34	1000sqft	0.33	14,336.00	0
Other Non-Asphalt Surfaces	1.80	Acre	1.80	78,408.00	0
Parking Lot	38.39	1000sqft	0.88	38,385.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - See table

Off-road Equipment - See table

Off-road Equipment - See table

Off-road Equipment - See table

Trips and VMT - Water truck trips added

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	80.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	8.00	43.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	PhaseEndDate	1/20/2017	9/30/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	6/13/2016
tblGrading	AcresOfGrading	21.50	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	21.00	23.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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	0.2262	2.0306	1.4413	2.0200e-003	0.1597	0.1266	0.2863	0.0790	0.1179	0.1969	0.0000	183.3043	183.3043	0.0413	0.0000	184.1715	
2016	1.5263	3.6103	2.7395	4.4400e-003	0.0799	0.2353	0.3153	0.0215	0.2211	0.2427	0.0000	390.2546	390.2546	0.0749	0.0000	391.8274	
Total	1.7524	5.6409	4.1808	6.4600e-003	0.2396	0.3619	0.6016	0.1005	0.3390	0.4395	0.0000	573.5588	573.5588	0.1162	0.0000	575.9989	

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	0.2262	2.0306	1.4413	2.0200e-003	0.1597	0.1266	0.2863	0.0790	0.1179	0.1969	0.0000	183.3041	183.3041	0.0413	0.0000	184.1713	
2016	1.5263	3.6103	2.7395	4.4400e-003	0.0799	0.2353	0.3153	0.0215	0.2211	0.2427	0.0000	390.2542	390.2542	0.0749	0.0000	391.8271	
Total	1.7524	5.6409	4.1808	6.4600e-003	0.2396	0.3619	0.6016	0.1005	0.3390	0.4395	0.0000	573.5583	573.5583	0.1162	0.0000	575.9984	

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	0.5827	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3500e-003	1.3500e-003	0.0000	0.0000	1.4300e-003	
Energy	2.8000e-004	2.5700e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	56.3143	56.3143	2.5100e-003	5.6000e-004	56.5408	
Mobile	0.4171	1.2172	4.1859	8.9900e-003	0.6304	0.0161	0.6464	0.1685	0.0148	0.1832	0.0000	715.7485	715.7485	0.0254	0.0000	716.2807	
Waste						0.0000	0.0000		0.0000	0.0000	2.7079	0.0000	2.7079	0.1600	0.0000	6.0686	
Water						0.0000	0.0000		0.0000	0.0000	0.9038	16.1662	17.0700	0.0936	2.3500e-003	19.7621	
Total	1.0001	1.2198	4.1888	9.0100e-003	0.6304	0.0163	0.6466	0.1685	0.0150	0.1834	3.6117	788.2304	791.8420	0.2815	2.9100e-003	798.6537	

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	0.5827	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3500e-003	1.3500e-003	0.0000	0.0000	1.4300e-003	
Energy	2.8000e-004	2.5700e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	56.3143	56.3143	2.5100e-003	5.6000e-004	56.5408	
Mobile	0.4171	1.2172	4.1859	8.9900e-003	0.6304	0.0161	0.6464	0.1685	0.0148	0.1832	0.0000	715.7485	715.7485	0.0254	0.0000	716.2807	
Waste						0.0000	0.0000		0.0000	0.0000	2.7079	0.0000	2.7079	0.1600	0.0000	6.0686	
Water						0.0000	0.0000		0.0000	0.0000	0.9038	16.1662	17.0700	0.0936	2.3400e-003	19.7607	
Total	1.0001	1.2198	4.1888	9.0100e-003	0.6304	0.0163	0.6466	0.1685	0.0150	0.1834	3.6117	788.2304	791.8420	0.2814	2.9000e-003	798.6522	

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.34	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2015	9/30/2015	5	43	
2	Building Construction	Building Construction	10/1/2015	9/30/2016	5	262	
3	Architectural Coating	Architectural Coating	6/13/2016	9/30/2016	5	80	
4	Paving	Paving	10/1/2016	10/31/2016	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 140,843; Non-Residential Outdoor: 46,948 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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
Grading	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	23.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 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					0.1316	0.0000	0.1316	0.0714	0.0000	0.0714	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0824	0.8690	0.5735	6.4000e-004		0.0501	0.0501		0.0461	0.0461	0.0000	61.0298	61.0298	0.0182	0.0000	61.4124	
Total	0.0824	0.8690	0.5735	6.4000e-004	0.1316	0.0501	0.1817	0.0714	0.0461	0.1175	0.0000	61.0298	61.0298	0.0182	0.0000	61.4124	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	4.0000e-004	4.2900e-003	4.7000e-003	1.0000e-005	2.7000e-004	8.0000e-005	3.5000e-004	8.0000e-005	8.0000e-005	1.5000e-004	0.0000	0.8309	0.8309	1.0000e-005	0.0000	0.8310	
Worker	1.2400e-003	1.8100e-003	0.0182	4.0000e-005	3.5400e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	3.1210	3.1210	1.5000e-004	0.0000	3.1242	
Total	1.6400e-003	6.1000e-003	0.0229	5.0000e-005	3.8100e-003	1.0000e-004	3.9200e-003	1.0200e-003	1.0000e-004	1.1100e-003	0.0000	3.9519	3.9519	1.6000e-004	0.0000	3.9552	

3.2 Grading - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1316	0.0000	0.1316	0.0714	0.0000	0.0714	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0824	0.8689	0.5735	6.4000e-004		0.0501	0.0501		0.0461	0.0461	0.0000	61.0297	61.0297	0.0182	0.0000	61.4124
Total	0.0824	0.8689	0.5735	6.4000e-004	0.1316	0.0501	0.1817	0.0714	0.0461	0.1175	0.0000	61.0297	61.0297	0.0182	0.0000	61.4124

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	4.2900e-003	4.7000e-003	1.0000e-005	2.7000e-004	8.0000e-005	3.5000e-004	8.0000e-005	8.0000e-005	1.5000e-004	0.0000	0.8309	0.8309	1.0000e-005	0.0000	0.8310
Worker	1.2400e-003	1.8100e-003	0.0182	4.0000e-005	3.5400e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	3.1210	3.1210	1.5000e-004	0.0000	3.1242
Total	1.6400e-003	6.1000e-003	0.0229	5.0000e-005	3.8100e-003	1.0000e-004	3.9200e-003	1.0200e-003	1.0000e-004	1.1100e-003	0.0000	3.9519	3.9519	1.6000e-004	0.0000	3.9552

3.3 Building Construction - 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					
Off-Road	0.1283	1.0698	0.6612	9.5000e-004		0.0748	0.0748		0.0703	0.0703	0.0000	86.4113	86.4113	0.0220	0.0000	86.8725	
Total	0.1283	1.0698	0.6612	9.5000e-004		0.0748	0.0748		0.0703	0.0703	0.0000	86.4113	86.4113	0.0220	0.0000	86.8725	

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	7.0300e-003	0.0758	0.0829	1.6000e-004	4.7100e-003	1.4700e-003	6.1800e-003	1.3500e-003	1.3500e-003	2.7000e-003	0.0000	14.6659	14.6659	1.1000e-004	0.0000	14.6681	
Worker	6.8300e-003	0.0100	0.1007	2.2000e-004	0.0196	1.3000e-004	0.0197	5.2000e-003	1.2000e-004	5.3200e-003	0.0000	17.2454	17.2454	8.5000e-004	0.0000	17.2632	
Total	0.0139	0.0858	0.1837	3.8000e-004	0.0243	1.6000e-003	0.0259	6.5500e-003	1.4700e-003	8.0200e-003	0.0000	31.9113	31.9113	9.6000e-004	0.0000	31.9313	

3.3 Building Construction - 2015

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	0.1283	1.0698	0.6612	9.5000e-004		0.0748	0.0748		0.0703	0.0703	0.0000	86.4112	86.4112	0.0220	0.0000	86.8724	
Total	0.1283	1.0698	0.6612	9.5000e-004		0.0748	0.0748		0.0703	0.0703	0.0000	86.4112	86.4112	0.0220	0.0000	86.8724	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	7.0300e-003	0.0758	0.0829	1.6000e-004	4.7100e-003	1.4700e-003	6.1800e-003	1.3500e-003	1.3500e-003	2.7000e-003	0.0000	14.6659	14.6659	1.1000e-004	0.0000	14.6681	
Worker	6.8300e-003	0.0100	0.1007	2.2000e-004	0.0196	1.3000e-004	0.0197	5.2000e-003	1.2000e-004	5.3200e-003	0.0000	17.2454	17.2454	8.5000e-004	0.0000	17.2632	
Total	0.0139	0.0858	0.1837	3.8000e-004	0.0243	1.6000e-003	0.0259	6.5500e-003	1.4700e-003	8.0200e-003	0.0000	31.9113	31.9113	9.6000e-004	0.0000	31.9313	

3.3 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	0.3552	3.0178	1.9389	2.8100e-003		0.2068	0.2068		0.1940	0.1940	0.0000	254.6164	254.6164	0.0641	0.0000	255.9621
Total	0.3552	3.0178	1.9389	2.8100e-003		0.2068	0.2068		0.1940	0.1940	0.0000	254.6164	254.6164	0.0641	0.0000	255.9621

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	0.0185	0.1977	0.2314	4.7000e-004	0.0140	3.6900e-003	0.0177	4.0000e-003	3.3900e-003	7.3900e-003	0.0000	43.0454	43.0454	2.9000e-004	0.0000	43.0514
Worker	0.0182	0.0266	0.2680	6.6000e-004	0.0582	3.7000e-004	0.0585	0.0155	3.4000e-004	0.0158	0.0000	49.3435	49.3435	2.3000e-003	0.0000	49.3917
Total	0.0367	0.2243	0.4994	1.1300e-003	0.0722	4.0600e-003	0.0762	0.0195	3.7300e-003	0.0232	0.0000	92.3889	92.3889	2.5900e-003	0.0000	92.4431

3.3 Building Construction - 2016

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	0.3552	3.0178	1.9389	2.8100e-003		0.2068	0.2068		0.1940	0.1940	0.0000	254.6161	254.6161	0.0641	0.0000	255.9618
Total	0.3552	3.0178	1.9389	2.8100e-003		0.2068	0.2068		0.1940	0.1940	0.0000	254.6161	254.6161	0.0641	0.0000	255.9618

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	0.0185	0.1977	0.2314	4.7000e-004	0.0140	3.6900e-003	0.0177	4.0000e-003	3.3900e-003	7.3900e-003	0.0000	43.0454	43.0454	2.9000e-004	0.0000	43.0514
Worker	0.0182	0.0266	0.2680	6.6000e-004	0.0582	3.7000e-004	0.0585	0.0155	3.4000e-004	0.0158	0.0000	49.3435	49.3435	2.3000e-003	0.0000	49.3917
Total	0.0367	0.2243	0.4994	1.1300e-003	0.0722	4.0600e-003	0.0762	0.0195	3.7300e-003	0.0232	0.0000	92.3889	92.3889	2.5900e-003	0.0000	92.4431

3.4 Architectural Coating - 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					
Archit. Coating	1.0880						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0197	0.1265	0.1005	1.6000e-004			0.0105	0.0105		0.0105	0.0105	0.0000	13.6174	13.6174	1.6100e-003	0.0000	13.6511
Total	1.1077	0.1265	0.1005	1.6000e-004			0.0105	0.0105		0.0105	0.0105	0.0000	13.6174	13.6174	1.6100e-003	0.0000	13.6511

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	6.6000e-004	7.0200e-003	8.2100e-003	2.0000e-005	5.0000e-004	1.3000e-004	6.3000e-004	1.4000e-004	1.2000e-004	2.6000e-004	0.0000	1.5278	1.5278	1.0000e-005	0.0000	1.5280	
Worker	1.5100e-003	2.2100e-003	0.0223	5.0000e-005	4.8400e-003	3.0000e-005	4.8700e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.1026	4.1026	1.9000e-004	0.0000	4.1066	
Total	2.1700e-003	9.2300e-003	0.0305	7.0000e-005	5.3400e-003	1.6000e-004	5.5000e-003	1.4200e-003	1.5000e-004	1.5700e-003	0.0000	5.6304	5.6304	2.0000e-004	0.0000	5.6346	

3.4 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	1.0880						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0197	0.1265	0.1005	1.6000e-004			0.0105	0.0105		0.0105	0.0105	0.0000	13.6173	13.6173	1.6100e-003	0.0000	13.6511
Total	1.1077	0.1265	0.1005	1.6000e-004			0.0105	0.0105		0.0105	0.0105	0.0000	13.6173	13.6173	1.6100e-003	0.0000	13.6511

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	6.6000e-004	7.0200e-003	8.2100e-003	2.0000e-005	5.0000e-004	1.3000e-004	6.3000e-004	1.4000e-004	1.2000e-004	2.6000e-004	0.0000	1.5278	1.5278	1.0000e-005	0.0000	1.5280	
Worker	1.5100e-003	2.2100e-003	0.0223	5.0000e-005	4.8400e-003	3.0000e-005	4.8700e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.1026	4.1026	1.9000e-004	0.0000	4.1066	
Total	2.1700e-003	9.2300e-003	0.0305	7.0000e-005	5.3400e-003	1.6000e-004	5.5000e-003	1.4200e-003	1.5000e-004	1.5700e-003	0.0000	5.6304	5.6304	2.0000e-004	0.0000	5.6346	

3.5 Paving - 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	0.0225	0.2296	0.1575	2.3000e-004		0.0138	0.0138		0.0128	0.0128	0.0000	21.6424	21.6424	6.3400e-003	0.0000	21.7755
Paving	1.1500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0237	0.2296	0.1575	2.3000e-004		0.0138	0.0138		0.0128	0.0128	0.0000	21.6424	21.6424	6.3400e-003	0.0000	21.7755

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	1.8400e-003	2.1600e-003	0.0000	1.3000e-004	3.0000e-005	1.6000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4010	0.4010	0.0000	0.0000	0.4011
Worker	7.2000e-004	1.0600e-003	0.0106	3.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.3000e-004	0.0000	1.9581	1.9581	9.0000e-005	0.0000	1.9600
Total	8.9000e-004	2.9000e-003	0.0128	3.0000e-005	2.4400e-003	4.0000e-005	2.4800e-003	6.5000e-004	4.0000e-005	7.0000e-004	0.0000	2.3591	2.3591	9.0000e-005	0.0000	2.3611

3.5 Paving - 2016

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	0.0225	0.2296	0.1575	2.3000e-004		0.0138	0.0138		0.0128	0.0128	0.0000	21.6424	21.6424	6.3400e-003	0.0000	21.7754
Paving	1.1500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0237	0.2296	0.1575	2.3000e-004		0.0138	0.0138		0.0128	0.0128	0.0000	21.6424	21.6424	6.3400e-003	0.0000	21.7754

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	1.8400e-003	2.1600e-003	0.0000	1.3000e-004	3.0000e-005	1.6000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4010	0.4010	0.0000	0.0000	0.4011
Worker	7.2000e-004	1.0600e-003	0.0106	3.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.3000e-004	0.0000	1.9581	1.9581	9.0000e-005	0.0000	1.9600
Total	8.9000e-004	2.9000e-003	0.0128	3.0000e-005	2.4400e-003	4.0000e-005	2.4800e-003	6.5000e-004	4.0000e-005	7.0000e-004	0.0000	2.3591	2.3591	9.0000e-005	0.0000	2.3611

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	0.4171	1.2172	4.1859	8.9900e-003	0.6304	0.0161	0.6464	0.1685	0.0148	0.1832	0.0000	715.7485	715.7485	0.0254	0.0000	716.2807	
Unmitigated	0.4171	1.2172	4.1859	8.9900e-003	0.6304	0.0161	0.6464	0.1685	0.0148	0.1832	0.0000	715.7485	715.7485	0.0254	0.0000	716.2807	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	988.18	0.00	0.00	1,662,095	1,662,095
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	988.18	0.00	0.00	1,662,095	1,662,095

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
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	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
0.462438	0.069856	0.176572	0.170752	0.045136	0.007399	0.012745	0.042494	0.000970	0.001060	0.006446	0.000893	0.003237

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	53.5220	53.5220	2.4600e-003	5.1000e-004	53.7314
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	53.5220	53.5220	2.4600e-003	5.1000e-004	53.7314
NaturalGas Mitigated	2.8000e-004	2.5700e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004	1.9000e-004	1.9000e-004	0.0000	2.7923	2.7923	5.0000e-005	5.0000e-005	2.8093	
NaturalGas Unmitigated	2.8000e-004	2.5700e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004	1.9000e-004	1.9000e-004	0.0000	2.7923	2.7923	5.0000e-005	5.0000e-005	2.8093	

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					
Government Office Building	52326.4	2.8000e-004	2.5700e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7923	2.7923	5.0000e-005	5.0000e-005	2.8093	
Other Non-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	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total		2.8000e-004	2.5700e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7923	2.7923	5.0000e-005	5.0000e-005	2.8093	

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					
Government Office Building	52326.4	2.8000e-004	2.5700e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7923	2.7923	5.0000e-005	5.0000e-005	2.8093	
Other Non-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	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total		2.8000e-004	2.5700e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7923	2.7923	5.0000e-005	5.0000e-005	2.8093	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	153252	43.8556	2.0200e-003	4.2000e-004	44.0272
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	33778.8	9.6664	4.4000e-004	9.0000e-005	9.7042
Total		53.5220	2.4600e-003	5.1000e-004	53.7314

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	153252	43.8556	2.0200e-003	4.2000e-004	44.0272
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	33778.8	9.6664	4.4000e-004	9.0000e-005	9.7042
Total		53.5220	2.4600e-003	5.1000e-004	53.7314

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	0.5827	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3500e-003	1.3500e-003	0.0000	0.0000	1.4300e-003	
Unmitigated	0.5827	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3500e-003	1.3500e-003	0.0000	0.0000	1.4300e-003	

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	0.1088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.4738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3500e-003	1.3500e-003	0.0000	0.0000	1.4300e-003	
Total	0.5827	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3500e-003	1.3500e-003	0.0000	0.0000	1.4300e-003	

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	0.1088						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4738						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000			0.0000	0.0000		0.0000	0.0000	1.3500e-003	1.3500e-003	0.0000	0.0000	0.0000	1.4300e-003
Total	0.5827	1.0000e-005	7.1000e-004	0.0000			0.0000	0.0000		0.0000	0.0000	1.3500e-003	1.3500e-003	0.0000	0.0000	0.0000	1.4300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.0700	0.0936	2.3400e-003	19.7607
Unmitigated	17.0700	0.0936	2.3500e-003	19.7621

7.2 Water by Land Use

Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	2.84878 / 1.74603	17.0700	0.0936	2.3500e-003	19.7621
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		17.0700	0.0936	2.3500e-003	19.7621

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	2.84878 / 1.74603	17.0700	0.0936	2.3400e-003	19.7607
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		17.0700	0.0936	2.3400e-003	19.7607

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	2.7079	0.1600	0.0000	6.0686
Unmitigated	2.7079	0.1600	0.0000	6.0686

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use					
Government Office Building	13.34	2.7079	0.1600	0.0000	6.0686
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		2.7079	0.1600	0.0000	6.0686

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	13.34	2.7079	0.1600	0.0000	6.0686
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		2.7079	0.1600	0.0000	6.0686

9.0 Operational Offroad

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