EXHIBIT NO. 8

PANATTONI PROJECT

INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

JULY 2020

FINAL

Prepared for:
City of Carson

Prepared by:
Michael Baker INTERNATIONAL

FINAL
INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

State Clearinghouse No. 2020060370

Panattoni Project

Lead Agency:

CITY OF CARSON
701 East Carson Street
Carson, California 90745
Contact: Mr. Max Castillo, Assistant Planner
310.952.1700 ext. 1317

Prepared by:

MICHAEL BAKER INTERNATIONAL
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949.855.7069

July 2020

JN 176815

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1.0 INTRODUCTION

The Panattoni Project (herein referenced as the "project") proposes the construction of three concrete tilt-up light industrial buildings (Buildings "A," "B," and "C") totaling 292,400 square feet at 2112 East 223rd Street, in the City of Carson, California. The three buildings would include offices to support warehousing and/or manufacturing uses, associated surface parking, landscaping, and truck loading docks for loading/unloading equipment and supplies. The project would require the discretionary approvals of a General Plan Amendment, a Zone Change, and a Site Plan and Design Review. The project would also require a National Pollutant Discharge Elimination System (NPDES) Permit from the Los Angeles Regional Water Quality Control Board (Los Angeles RWQCB), an approval for Groundwater Monitoring Well Relocation from the Department of Toxic Substances Control (DTSC), a Water Connection Permit from the California Water Service Company Rancho Dominguez District, and Sewer Plan review and approval from Sanitation Districts of Los Angeles County.

The Initial Study/Mitigated Negative Declaration (IS/MND) (State Clearinghouse No. 2020060370) was made available for public review and comment pursuant to CEQA Guidelines Section 15073. The public review commenced on June 18, 2020 and concluded on July 17, 2020.

Due to the COVID-19 pandemic, all City facilities including City Hall and the Carson Public Library have been closed until further notice. The IS/MND was made available for public review on the City's website at http://ci.carson.ca.us/CommunityDevelopment/Planning.aspx. Alternatively, agencies and the public were directed to call or email the City's Development Services Department to make arrangements to view the IS/MND and/or supporting materials in person.

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2.0 RESPONSE TO COMMENTS

During the public review period, comment letters were received on the IS/MND from interested public agencies, organizations, and individuals. The following is a list of commenters on the IS/MND during the public review period.

Comment Letter No.	Person, Firm, or Agency	Letter Dated
1	The Governor's Office of Planning and Research CEQAnet Web Portal Summary	July 18, 2020
2	County of Los Angeles Fire Department Ronald M. Durbin, Chief, Forestry Division Prevention Services Bureau	July 14, 2020
3	Los Angeles County Sanitation Districts Facilities Planning Department Adriana Raza, Customer Service Specialist	July 16, 2020
4	South Coast Air Quality Management District Planning, Rule Development & Area Sources Lijin Sun, J.D. Program Supervisor, CEQA IGR	July 16, 2020
5	California Department of Transportation District 7 Miya Edmonson, IGR/CEQA Branch Chief	July 17, 2020
6	Golden State Environmental Justice Alliance Board of Directors	July 17, 2020

Although the CEQA Guidelines do not require a lead agency to prepare written responses to comments received (see CEQA Guidelines Section 15088), the City of Carson has elected to prepare the following written responses with the intent of conducting a comprehensive and meaningful evaluation of the proposed project. The number designations in the responses correlate to the bracketed and identified portions of each comment letter.

Panattoni Project

Summary

SCH Number	2020060370
Lead Agency	Carson, City of *(City of Carson)*
Document Title	Panattoni Project
Document Type	MND - Mitigated Negative Declaration
Received	6/18/2020
Project Applicant	Panattoni Development Company, Inc.
Present Land Use	Vacant

Document Description The project proposes the construction of three concrete tilt-up light industrial buildings totaling 292,400 square feet. The three buildings would include offices to support warehousing and/or manufacturing uses, with associated surface parking, landscaping, and truck loading docks for loading/unloading equipment and supplies. The project would require the discretionary approvals of a General Plan Amendment, a Zone Change, and a Site Plan and Design Review. The project would also require a National Pollutant Discharge Elimination System (NPDES) Permit from the Los Angeles Regional Water Quality Control Board (Los Angeles RWQCB), an approval for Groundwater Monitoring Well Relocation from the Department of Toxic Substances Control (DTSC), a Water Connection Permit from the California Water Service Company Rancho Dominguez District, and a Sewer Connection Permit from Sanitation Districts of Los Angeles County.

Contact Information

Max Castillo, Assistant Planner
City of Carson

701 East Carson Street
Carson , CA 90745

Phone : (310) 952-1700 ext. 1317

MCastillo@carson.ca.us

1-1

Location

Coordinates	33°49'23.9"N 118°14'8.2"W
Cities	Carson
Counties	Los Angeles
Regions	Citywide
Cross Streets	East 223rd Street and Tesoro Campus Drive
Zip	90810
Total Acres	14.3
Jobs	124
Parcel #	7315-008-049
State Highways	I-405, CA-47, I-710
Railways	Numerous
Airports	Long Beach Municipal Airport

Schools	Del Amo Elementary
Waterways	Dominguez Channel
Township	04S
Range	13W
Section	15
Base	SBBM
Other Location Info	The proposed Panattoni Project is located at 2112 East 223rd Street on a 14.3-acre property. Regional access to the site is provided via the San Diego Freeway (Interstate 405 [I-405]) and State Route 47 (SR-47). Local access to the site is provided via East 223rd Street.

Notice of Completion

Review Period Start	6/18/2020
Review Period End	7/17/2020
Development Type	Industrial (Warehousing and/or manufacturing uses)(292,400 Sq. Ft., 124 Employees)
Local Action	General Plan Amendment, Site Plan, Rezone, Grading Permit, Design Review, National Pollutant Discharge Elimination System (NPDES) Permit, Groundwater Monitoring Well Relocation Approval.
Project Issues	Aesthetic/Visual, Agricultural Land, Air Quality, Archaeologic-Historic, Biological Resources, Drainage/Absorption, Flood Plain/Flooding, Forest Land/Fire Hazard, Geologic/Seismic, Greenhouse Gas Emissions, Housing, Minerals, Noise, Population/Housing Balance, Public Services, Recreation/Parks, Schools/Universities, Septic System, Sewer Capacity, Soil Erosion/Compaction/Grading, Solid Waste, Toxic/Hazardous, Traffic/Circulation, Tribal Cultural Resources, Vegetation, Water Quality, Water Supply, Wetland/Riparian, Wildlife, Growth Inducing, Land Use, Cumulative Effects
Reviewing Agencies	California Air Resources Board, California Department of Conservation, California Department of Fish and Wildlife, South Coast Region 5, California Department of Parks and Recreation, California Department of Transportation, Division of Aeronautics, California Department of Water Resources, California Highway Patrol, California Native American Heritage Commission, California Natural Resources Agency, California Public Utilities Commission, California Regional Water Quality Control Board, Los Angeles Region 4, California State Lands Commission, Department of Toxic Substances Control, Office of Historic Preservation, San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy, State Water Resources Control Board, Division of Drinking Water, State Water Resources Control Board, Division of Water Quality, California Department of Transportation, District 7

Attachments

Environmental Document	Appendix A_AQ GHG E PDF 2736 K Appendix B_Geo PDF 15992 K Appendix C_HazMat PDF 17751 K Appendix D_Hydro WQ PDF 23234 K Appendix E_Noise Data PDF 1400 K Appendix F_TIA and VMT PDF 11099 K Appendix G_Utility Will Serves PDF 1422 K Panattoni Public Review Draft ISMND_June2020 PDF 10657 K Panattoni_NOI_061020_Signed PDF 253 K Panattoni_Summary Form_061820 PDF 659 K
NOC	Panattoni_NOC_061820 PDF 199 K
State Comments	2020060370_Caltrans Comment PDF 264 K

Disclaimer: The Governor's Office of Planning and Research (OPR) accepts no responsibility for the content or accessibility of these documents. To obtain an attachment in a different format, please contact the lead agency at the contact information listed above. You may also contact the OPR via email at state.clearinghouse@opr.ca.gov or via phone at (916) 445-0613. For more information, please visit OPR's Accessibility Site.

Response No. 1

The Governor's Office of Planning and Research
CEQAnet Web Portal Summary
July 18, 2020

1-1 This letter is a summary of the State Clearinghouse CEQAnet database, which can be accessed at https://ceqanet.opr.ca.gov/2020060370/2. Based on this summary, the Draft IS/MND (State Clearinghouse No. 2020060370) was made available for public review from June 18, 2020 through July 17, 2020. One State agency letter was received by the State Clearinghouse (the California Department of Transportation District 7, included as Letter No. 4). The comment does not provide specific comments regarding technical information presented in the Draft IS/MND and no further response is necessary.

COUNTY OF LOS ANGELES
FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294
(323) 881-2426
www.fire.lacounty.gov

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DARYL L. OSBY
FIRE CHIEF
FORESTER & FIRE WARDEN

July 14, 2020

Max Castillo, Assistant Planner
City of Carson
Community Development Department
701 East Carson Street
Carson, CA 90745

Dear Mr. Castillo:

NOTICE OF AVAILABILITY/INTENT TO ADOPT A MITIGATED NEGATIVE DECLARATION, "PANATTONI PROJECT," PROPOSES THE CONSTRUCTION OF THREE CONCRETE TILT-UP LIGHT INDUSTRIAL BUILDINGS WHICH WOULD INCLUDE OFFICES TO SUPPORT WAREHOUSING AND/OR MANUFACTURING USES, WITH ASSOCIATED SURFACE PARKING, LANDSCAPING, AND TRUCK LOADING DOCKS FOR LOADING/UNLOADING EQUIPMENT AND SUPPLIES, LOCATED AT 2112 EAST 223RD STREET, CARSON, FFER 2020003665

The Notice of Availability/Intent to Adopt a Mitigated Negative Declaration has been reviewed by the Planning Division, Land Development Unit, Forestry Division, and Health Hazardous Materials Division of the County of Los Angeles Fire Department. 2-1

The following are their comments:

PLANNING DIVISION:

We have no comments.

For any questions regarding this response, please contact Loretta Bagwell, Planning Analyst, at (323) 881-2404 or Loretta.Bagwell@fire.lacounty.gov. 2-2

LAND DEVELOPMENT UNIT:

The development of this project must comply with all applicable code and ordinance requirements for construction, access, water mains, fire flows, and fire hydrants.

The County of Los Angeles Fire Department's Fire Prevention, Land Development Unit has no additional comments regarding this project at this time. The comments that were provided for the review of FLDU2020002489 for Design Review 2824-29, General Plan Amendment 107-19, and Zone Change 185-19, have not changed and are still applicable to this project. 2-3

The County of Los Angeles Fire Department's Land Development Unit appreciates the opportunity to comment on this project. Should any questions arise, please contact Nancy Rodeheffer at (323) 890-4243 or Nancy.rodeheffer@fire.lacounty.gov.

FORESTRY DIVISION – OTHER ENVIRONMENTAL CONCERNS:

The statutory responsibilities of the County of Los Angeles Fire Department's Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones, archeological and cultural resources, and the County Oak Tree Ordinance. Potential impacts in these areas should be addressed.

Under the Los Angeles County Oak tree Ordinance, a permit is required to cut, destroy, remove, relocate, inflict damage or encroach into the protected zone of any tree of the Oak genus which is 25 inches or more in circumference (eight inches in diameter), as measured 4 1/2 feet above mean natural grade. 2-4

If Oak trees are known to exist in the proposed project area further field studies should be conducted to determine the presence of this species on the project site.

The County of Los Angeles Fire Department's Forestry Division has no further comments regarding this project.

For any questions regarding this response, please contact Forestry Assistant, Joseph Brunet at (818) 890-5719.

HEALTH HAZARDOUS MATERIALS DIVISION:

The Health Hazardous Materials Division of the Los Angeles County Fire Department has no comments or requirements for the project at this time.

Please contact HHMD senior typist-clerk, Perla Garcia at (323) 890-4035 or Perla.garcia@fire.lacounty.gov if you have any questions. 2-5

If you have any additional questions, please contact this office at (323) 890-4330.

Response No. 2

County of Los Angeles Fire Department
Ronald M. Durbin, Chief, Forestry Division
Prevention Services Bureau
July 14, 2020

2-1 This comment provides a general introduction. Responses to specific comments are provided below.

2-2 This comment notes that the County of Los Angeles Fire Department (LACFD) Planning Division has no comments on the project. No further response is warranted.

2-3 The Land Development Unit notes that the project must comply with all applicable code and ordinance requirements for construction, access, water mains, fire flows, and fire hydrants and states that the comments that were provided for the review of FLDU202002489 for Design Review 2824-29, General Plan Amendment 107-19, and Zone Change 185-19 have not changed and are still applicable to the project. As noted in Draft IS/MND Section 4.15, *Public Services*, page 4.15-1, all construction activities would be subject to compliance with all applicable State and local regulations in place to reduce risk of construction-related fire, such as installation of temporary construction fencing to restrict site access and maintenance of a clean construction site. In addition, the proposed project would be required to comply with LACFD requirements for emergency access, fire flow, fire protection standards, fire lanes, and other site design/building standards. The project would also be subject to compliance with the existing regulations specified in Municipal Code Article III Chapter 1, *Fire Prevention*, which adopts by reference Title 32, *Fire Code*, of the Los Angeles County Code. Following compliance with LACFD and Municipal Code requirements, the project's operational impacts to fire protection services would be less than significant.

2-4 The Forestry Division (Other Environmental Concerns) provides background information regarding the responsibility of the LACFD Forestry Division and states that potential impacts related to erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones, archaeological and cultural resources, and the County Oak Tree ordinance should be addressed.

The Draft IS/MND includes an analysis of the project's potential impacts related to hydrology and water quality based on the project's *Low Impact Development (LID) for 2112 East 223rd Street, Carson, California 90810* (LID), prepared by Thienes Engineering, Inc., dated January 6, 2020, and *Preliminary Hydrology Calculations*, prepared by Thienes Engineering, Inc., dated November 21, 2019; refer to Draft IS/MND Appendix D, *Hydrology and Water Quality Documentation*. As indicated in Draft IS/MND Section 4.10, *Hydrology and Water Quality*, construction-related erosion impacts would be reduced to a less than significant level following conformance with the requirements of the Construction General Permit under the National Pollutant Discharge Elimination System (NPDES) and the water quality best management practices (BMPs) set forth in Municipal Code Chapter 8, Storm Water and Urban Runoff Pollution

Control; refer to Draft IS/MND page 4.10-2. Concerning operational erosion impacts, although the project would result increase impervious surfaces compared to existing conditions, long-term operation of the project would not have the potential to result in substantial erosion or siltation given the nature of proposed use and the urbanized project setting; refer to Draft IS/MND Section 4.10 page 4.10-3. The project site would not include any large areas of exposed soils that would be subject to runoff. Rather, any unpaved areas would be landscaped to minimize the potential for erosion or siltation on- or off-site; refer to Draft IS/MND Exhibit 2-5, *Conceptual Landscape Plan*. The proposed project would include operational BMPs in conformance with County's *2014 Low Impact Development (LID) Standards Manual* and Municipal Code requirements in order to reduce long-term water quality impacts to less than significant levels; refer to Draft IS/MND Response 4.10(a) on page 4.10-2. Impacts would be less than significant in this regard.

According to the *Carson General Plan Environmental Impact Report* (General Plan EIR), the City of Carson does not support any sensitive or special status species; refer to page 4.4-1 of Draft IS/MND Section 4.4, *Biological Resources*. The project site is located within an urbanized, industrial area of the City. Due to past development as a former polyvinyl chloride plant, demolition activities, and ongoing remediation, the site is heavily disturbed and mostly consists of developed, bare ground, and non-native habitat. Thus, project implementation would not adversely affect any candidate, sensitive, or special status species. Thus, project implementation would not adversely affect rare and endangered species.

No portion of the City is designated as a Very High Fire Hazard Severity Zone or located near a Very High Fire Hazard Severity Zone; refer to page 4.20-1 of Draft IS/MND Section 4.20, *Wildfire*. Thus, project implementation would not result in impacts related to fuel modification for Very High Fire Hazard Severity Zones.

The Draft IS/MND includes an analysis of the project's potential impacts related to archaeological and cultural resources; refer to Draft IS/MND Section 4.5, *Cultural Resources*, and Section 4.18, *Tribal Cultural Resources*. As detailed in the General Plan EIR, no archaeological sites or resources are known to exist within the City with the exception of the Suangna Village, which is located approximately 1.1 miles of the project site; refer to Draft IS/MND page 4.5-1. The *Geotechnical Investigation, Three Proposed Warehouses, 2112 East 223rd Street, Carson, California, for Panattoni Development Company, Inc.* (Geotechnical Investigation) prepared for the project determined that the project site is underlain by artificial fill soils between depths of 1.5 to 6.5 feet below ground surface (bgs); refer to Draft IS/MND Appendix B, *Geotechnical Investigation*. Native alluvium soil is encountered below the artificial fill soils. The Geotechnical Study recommends that the existing soils within the building pad areas should be overexcavated to a depth of 8 feet below existing grade and to a depth of 8 feet below proposed pad grade, whichever is greater. Thus, although the project site is not located within a general area of sensitivity for archaeological resources, project excavation would encounter native (alluvium) soils which have the potential to support unknown buried archaeological resources. In the unlikely event that archaeological resources are encountered during project construction, the Draft IS/MND includes Mitigation Measure CUL-1 to require all project construction efforts to halt until an archaeologist examines the site, identifies the archaeological significance of the find, and recommends a course of action. With implementation of Mitigation Measure CUL-1, the project would not cause a substantial adverse change in the

significance of an archaeological resource pursuant to Section 15064.5 of the CEQA Guidelines, and impacts would be reduced to less than significant levels.

The Gabrieleño Band of Mission Indians – Kizh Nation indicated that the project site is located within the vicinity of known tribal cultural resources; refer to Draft IS/MND Section 4.18, page 4.18-2. However, no specific known tribal cultural resources were identified at the project site. As such, the project site is considered sensitive for unknown tribal cultural resources. To avoid impacting or destroying unknown tribal cultural resources that may be inadvertently unearthed during the project's ground disturbing activities, Mitigation Measure TCR-1 is included in the Draft IS/MND to ensure that a qualified archaeologist (Mitigation Measure CUL-1) and Tribal monitor/consultant who is both approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government and is listed under the Native American Heritage Commission's (NAHC's) Tribal Contact list for the area of the project location are present during site disturbing activities. If evidence of potential subsurface tribal cultural materials are found during any phase of site disturbance/construction and the qualified archaeologist/Native American Monitor determines that the find is prehistoric or includes Native American materials, Mitigation Measure TCR-1 would ensure affiliated Native American groups are invited to contribute to the assessment and recovery of the found resource. With implementation of Mitigation Measure TCR-1, impacts to tribal cultural resources would be reduced to less than significant levels.

Oak trees are not present on the project site. No impacts would occur in this regard.

2-5 This comment states that the LACFD Health Hazardous Materials Division has no comments on the project. Therefore, no further response is warranted.

COMMENT LETTER 3

LOS ANGELES COUNTY
SANITATION DISTRICTS
Converting Waste Into Resources

Robert C. Ferrante
Chief Engineer and General Manager

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
(562) 699-7411 • www.lacsd.org

July 16, 2020

Ref. DOC 5765242

Mr. Max Castillo, Assistant Planner
Community Development Department
City of Carson
701 East Carson Street
Carson, CA 90745

Dear Mr. Castillo:

NOI Response for Panattoni Project

The Los Angeles County Sanitation Districts (Districts) received a Notice of Intent to Adopt a Mitigated Negative Declaration (NOI) for the subject project on June 18, 2020. The proposed project is located within the jurisdictional boundary of District No. 8. We offer the following comments regarding sewerage service: 3-1

1. The wastewater flow originating from the proposed project will discharge directly to the Districts' Davidson City Trunk Sewer Section 1, 2, and 3, located in 223rd Street west of Johns Manville Street. The Districts' 24–inch diameter trunk sewer has a capacity of 5.5 million gallons per day (mgd) and conveyed a peak flow of 1.6 mgd when last measured in 2015. A 6-inch diameter or smaller direct connection to a Districts' trunk sewer requires a Trunk Sewer Connection Permit, issued by the Districts. An 8-inch diameter or larger direct connection to a Districts' trunk sewer requires submittal of Sewer Plans for review and approval by the Districts. For additional information, please contact the Districts' Engineering Counter at (562) 908-4288, extension 1205. 3-2

2. The wastewater generated by the proposed project will be treated at the Joint Water Pollution Control Plant located in the City of Carson, which has a capacity of 400 mgd and currently processes an average flow of 261.1 mgd. 3-3

3. The expected average wastewater flow from the project site, described in the notice as 292,400 square feet of light industrial space, is 7,310 gallons per day. For a copy of the Districts' average wastewater generation factors, go to www.lacsd.org, under Services, then Wastewater Program and Permits, select Will Serve Program, and scroll down to click on the Table 1, Loadings for Each Class of Land Use link. 3-4

4. The Districts are empowered by the California Health and Safety Code to charge a fee to connect facilities (directly or indirectly) to the Districts' Sewerage System or to increase the strength or quantity of wastewater discharged from connected facilities. This connection fee is a capital facilities fee that is used by the Districts to upgrade or expand the Sewerage System. Payment of a connection fee will be required before this project is permitted to discharge to the Districts' Sewerage System. For more information and a copy of the Connection Fee Information Sheet, go to www.lacsd.org, under Services, then Wastewater (Sewage) and select Rates & Fees. In determining the impact to the Sewerage System and applicable connection fees, the Districts will determine the user category (e.g. Condominium, Single Family home, etc.) that best represents the actual or anticipated use of the parcel(s) or facilities on the parcel(s) in the development. For more specific information regarding the connection fee application procedure and fees, the developer should contact the Districts' Wastewater Fee Public Counter at (562) 908-4288, extension 2727 3-5

5. In order for the Districts to conform to the requirements of the Federal Clean Air Act (CAA), the capacities of the Districts' wastewater treatment facilities are based on the regional growth forecast adopted by the Southern California Association of Governments (SCAG). Specific policies included in the development of the SCAG regional growth forecast are incorporated into clean air plans, which are prepared by the South Coast and Antelope Valley Air Quality Management Districts in order to improve air quality in the South Coast and Mojave Desert Air Basins as mandated by the CCA. All expansions of Districts' facilities must be sized and service phased in a manner that will be consistent with the SCAG regional growth forecast for the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial. The available capacity of the Districts' treatment facilities will, therefore, be limited to levels associated with the approved growth identified by SCAG. As such, this letter does not constitute a guarantee of wastewater service, but is to advise the developer that the Districts intend to provide this service up to the levels that are legally permitted and to inform the developer of the currently existing capacity and any proposed expansion of the Districts' facilities. 3-6

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2717 or at araza@lacsd.org.

Very truly yours,

Adriana Raza
Customer Service Specialist
Facilities Planning Department

AR:ar

Response No. 3

Los Angeles County Sanitation Districts
Facilities Planning Department
Adriana Raza
July 16, 2020

3-1 This comment provides a general introduction. Responses to specific comments are provided below.

3-2 The commenter indicates that the project would discharge directly to the Los Angeles County Sanitation Districts' (Districts') Davidson City Trunk Sewer Section 1, 2, and 3, located in 223rd Street west of Johns Manville Street. The Districts' 24-inch diameter trunk sewer has a capacity of 5.5 million gallons per day (mgd) and conveyed a peak flow of 1.6 mgd when last measured in 2015. The project proposes an eight-inch diameter sewer connection to the Districts' Davidson City Trunk Sewer. According to the commenter, an eight-inch diameter or larger direct connection to a Districts' trunk sewer requires submittal of Sewer Plans for review and approval by the Districts. As a result, Section 2.4, *Agreements, Permits, and Approvals*, of the Draft IS/MND has been revised to clarify the project would require Districts' review and approval of the proposed sewer plans; a Trunk Sewer Connection Permit would not be required. This clarification has been made to page 2-13 of the Draft IS/MND and is reflected below and in Section 3.0, *Errata*, of the Final IS/MND.

Page 2-13, Section 2.6, Agreements, Permits, and Approvals

2.6 AGREEMENTS, PERMITS, AND APPROVALS

The proposed project would require agreements, permits, and approvals from the City and other agencies prior to construction. The project requires agreements, permits, and approvals, such as grading permit building and safety permit, certificate of occupancy, and street improvement permit. The following describes City discretionary actions, as well as agreements, permits, and approvals from other regional and State agencies. It is acknowledged that these agreements, permits, and approvals may change as the project entitlement process proceeds.

City of Carson – Lead Agency
- California Environmental Quality Act Approval;
- General Plan Amendment;
- Zone Change; and
- Site Plan and Design Review.

Los Angeles Regional Water Quality Control Board – Responsible Agency
- National Pollutant Discharge Elimination System (NPDES) Permit.

Department of Toxic Substances Control – Responsible Agency
- Groundwater Monitoring Well Relocation.

California Water Service Company Rancho Dominguez District
- Water Connection Permit.

Sanitation Districts of Los Angeles County
- Sewer Plan review and approval ~~Sewer Connection Permit~~.

This change provides a minor update, correction, or clarification and does not represent "significant new information" as defined in CEQA Guidelines Section 15088.5 and would not result in any new or substantially greater significant impacts as compared to those identified in the Draft IS/MND.

3-3 The commenter provides information regarding the Districts' Joint Water Pollution Control Plant (JWPCP) that would treat wastewater flow generated by the proposed project and its associated capacities and average flows. The comment does not provide specific comments regarding technical information presented in the Draft IS/MND and no further response is necessary.

3-4 The commenter provides information regarding the project's expected average wastewater flow. The comment does not provide specific comments regarding technical information presented in the Draft IS/MND and no further response is necessary.

3-5 The commenter states that the Districts are empowered by the California Health and Safety Code to charge a fee to connect facilities (directly or indirectly) to the Districts' Sewerage System or to increase the strength or quantity of wastewater discharged from connected facilities. This comment is noted. As described in Draft IS/MND Section 4.19, page 4.19-2, paragraph 2, the project would be subject to payment of standard sewer connection fees and ongoing user fees.

3-6 The commenter notes that the capacities of the Districts' wastewater treatment facilities are based on the regional growth forecasts adopted by the Southern California Association of Governments (SCAG). As discussed in Draft IS/MND Section 4.14, *Population and Housing*, SCAG growth forecasts estimate the City's population to reach 107,900 persons by 2040, representing a total increase of 15,900 persons between 2012 and 2040. The project would employ up to 124 full-time employees. The project's anticipated population increase (conservatively assumed at 448 persons) would represent a 0.42 percent increase over the City's anticipated 2040 population, which would be considered less than significant. Thus, although the project would result in indirect population growth through employee generation, the proposed project would not result in significant exceedance of projected growth anticipated by SCAG (Draft IS/MND page 4.14-2). Further, as concluded in Draft IS/MND page 4.3-2, the project would not conflict with population, housing, and employment growth projections in the 2016 Air Quality Management Plan (AQMP), *Carson General Plan* (General Plan), SCAG's *Growth Management Chapter of the Regional Comprehensive Plan* (RCP), and SCAG's *2016-2040 Regional Transportation Plan/Sustainable Communities Strategy* (RTP/SCS). The determination of project consistency with the 2016 AQMP is primarily concerned with the long-term influence of a project on Basin air quality. The project would not result in long-term impacts on the region's ability to meet State and Federal air quality standards. As discussed above, the proposed project would not conflict with the population, housing, and employment growth projections in the 2016 AQMP, nor the goals and policies of the General Plan, SCAG's RCP, and SCAG's RTP/SCS. The Draft IS/MND determined that air quality impacts would be less than significant in this regard.

The comment letter does not constitute a guarantee of wastewater services but rather that the Districts intend to provide service up to the levels that are legally permitted and to inform the Applicant of existing capacities and any proposed expansions of the Districts' facilities. This comment is acknowledged, and no further response is required.

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

SENT VIA E-MAIL:
MCastillo@carson.ca.us
Max Castillo, Assistant Planner
City of Carson, Planning Department
701 East Carson Street
Carson, CA 90745

July 16, 2020

Mitigated Negative Declaration (MND) for the Proposed Panattoni Project

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final MND.

South Coast AQMD Staff's Summary of Project Description

The Lead Agency is proposing to construct three light industrial buildings for either warehousing only or warehousing and manufacturing uses totaling 292,400 square feet on 14.3 acres (Proposed Project). The Proposed Project is located on the southwest corner of East 223rd Street and Tesoro Campus Drive within the City of Carson. Construction of the Proposed Project is anticipated to occur over 13 months beginning October 2020, and the Proposed Project becomes fully operational by December 2021[1]. During construction, a maximum of 27,400 cubic yards of soil may be imported[2]. Once operational, the Proposed Project is expected to generate 104 daily truck trips for the warehousing only use option, or 107 and 59 daily truck trips for the manufacturing and warehousing uses option, respectively[3]. Upon review of Exhibit 4.13-1: *Noise Measurement Locations* in the MND and aerial photographs, South Coast AQMD staff found that the closest residential sensitive receptors are located within 1,509 feet of the Proposed Project[4]. 4-1

South Coast AQMD Staff's Summary of the Air Quality Analysis and Health Risk Assessment

In the Air Quality Analysis section, the Lead Agency quantified the Proposed Project's construction and operational emissions and compared those emissions to South Coast AQMD's recommended regional and localized air quality CEQA thresholds. Based on the analysis, the Lead Agency found that the regional construction and operational air quality impacts will be less than significant[5]. However, the Lead Agency found that the Proposed Project's localized PM10 and PM2.5 emissions from construction activities would be 10.67 pounds per day (lbs/day) and 5.43 lbs/day, respectively, which would exceed South Coast AQMD's air quality CEQA localized significance thresholds for PM10 and PM2.5 at 7 lbs/day and 5 lbs/day, respectively[6]. After implementation of South Coast AQMD Rule 403 – Fugitive Dust[7], the Proposed Project's localized construction emissions from PM10 and PM2.5 would be reduced to less than 4-2

[1] MND. Chapter 2: Project Description. Page 2-12.
[2] MND. Chapter 4: Air Quality. Page 4.3-5.
[3] *Ibid*. Pages 4.17-6 to 4.17-7.
[4] *Ibid*. Page 4.13-6.
[5] *Ibid*. Pages 4.3-6, 4.3-8, and 4.3-13.
[6] *Ibid*. Pages 4.3-12.
[7] South Coast AQMD. Rule 403. Last amended June 3, 2005. Accessed at: http://www.aqmd.gov/docs/default-source/rulebook/rule-iv/rule-403.pdf.

significant at 5.89 lbs/day and 3.45 lbs/day, respectively[8]. The Lead Agency did not perform a mobile source Health Risk Assessment (HRA) in the MND[9].

Summary of South Coast AQMD Staff's Comments

Based on a review of the MND and supporting technical documents, South Coast AQMD staff has concerns about the Proposed Project's air quality impacts for construction. First, the Lead Agency did not quantify emissions from the Proposed Project's haul truck trips to import 27,400 cubic yards of soil, and construction emissions may have been underestimated in the MND. South Coast AQMD staff recommends that the Lead Agency quantify emissions from haul truck trips in the Final MND. Second, although the Proposed Project will include operation of warehouse uses, the Lead Agency did not perform a mobile source HRA. South Coast AQMD staff recommends that the Lead Agency perform a mobile source HRA in the Final MND, calculate cancer risk from transportation and idling of truck emissions, and compare cancer risk to South Coast AQMD's CEQA significance threshold of 10 in one million to determine the level of significance for health risk impacts[10]. Third, South Coast AQMD recommends that the Lead Agency incorporate mitigation measures in the Final MND to further reduce the Proposed Project's construction and operational emissions. Finally, since the Proposed Project could include manufacturing uses, South Coast AQMD permits may be required. Please see the attachment for more information. 4-3

Conclusion

Pursuant to CEQA Guidelines Section 15074, prior to approving the Proposed Project, the Lead Agency shall consider the MND for adoption together with any comments received during the public review process. Please provide South Coast AQMD with written responses to all comments contained herein prior to the adoption of the Final MND. When responding to issues raised in the comments, responses should provide sufficient details giving reasons why specific comments and suggestions are not accepted. There should be good faith, reasoned analysis in response. Conclusory statements unsupported by factual information do not facilitate the purpose and goal of CEQA on public disclosure and are not meaningful, informative, or useful to decision makers and the public who are interested in the Proposed Project. Further, when the Lead Agency makes the finding that the recommended mitigation measures are not feasible, the Lead Agency should describe the specific reasons supported by substantial evidence for rejecting it in the Final MND (CEQA Guidelines Sections 15070 and 15074.1). 4-4

South Coast AQMD staff is available to work with the Lead Agency to address any air quality questions that may arise from this comment letter. Please contact Margaret Isied, Assistant Air Quality Specialist, at misied@aqmd.gov, should you have any questions.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

Attachment
LS:MI
LAC200626-02
Control Number

[8] MND. Chapter 4: Air Quality. Page 4.3-12.
[9] *Ibid.* 4.3-14.
[10] South Coast AQMD has developed the CEQA significance threshold of 10 in one million for cancer risk. When South Coast AQMD acts as the Lead Agency, South Coast AQMD staff conducts a HRA, compares the maximum cancer risk to the threshold of 10 in one million to determine the level of significance for health risk impacts, and identifies mitigation measures if the risk is found to be significant.

ATTACHMENT

1. **Air Quality Impacts – Haul Truck Trips**
In the MND and supporting technical documentation, the Lead Agency estimated that approximately 27,400 cubic yards of soil would be required to be imported to the Proposed Project during the construction phase[11]. However, the Lead Agency did not quantify emissions from haul truck trips that will be used to import the soil[12]. The use of heavy-duty, diesel-fueled trucks for soil import will result in emissions, particularly from NOx. The MND has likely underestimated the Proposed Project's construction emissions from haul truck trips for soil import. Therefore, South Coast AQMD staff recommends that the Lead Agency calculate emissions from haul truck trips that will deliver imported soil to the Proposed Project and include those emissions in the Proposed Project's construction emissions profile to be compared to South Coast AQMD's air quality CEQA significance thresholds for construction to determine the level of significance in the Final MND. Alternatively, if emissions from haul truck trips are not included in the Final MND, the Lead Agency should provide reasons for not including them supported by substantial evidence in the record.

2. **Mobile Source Health Risk Assessment**
As stated above, the Proposed Project will involve either the operation of a warehouse or warehouse and manufacturing uses, which are expected to generate 104 daily truck trips for the warehousing only use, or 107 and 59 daily truck trips for the manufacturing and warehousing uses, respectively[13]. Diesel particulate matter (DPM) will be emitted from the transportation and idling of trucks visiting the Proposed Project. DPM has been identified by the California Air Resources Board (CARB) as a toxic air contaminant (TAC) based on its carcinogenic effects[14]. However, upon review of the MND, South Coast AQMD staff found that the Lead Agency did not perform a quantitative mobile source HRA. 4-5

One of the basic purposes of CEQA is to inform decision-makers and the public about the potential, significant environmental effects of proposed activities (CEQA Guidelines Section 15002(a)(1)). A mitigated negative declaration is appropriate when the Lead Agency finds that the project will not have a significant effect on the environment after incorporating mitigation measures (CEQA Guidelines Sections 15070 to 15075). Reasons to support this finding shall be documented as substantial evidence in the MND. Therefore, South Coast AQMD staff recommends that the Lead Agency perform a mobile source HRA[15] in the Final MND and compare cancer risk to South Coast AQMD's CEQA significance threshold of 10 in one million to determine of the level of significance for the Proposed Project's health risk impacts during operation[16]; otherwise, the Lead Agency has not met CEQA's requirement. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating air pollutants should also be included.

3. **Recommended Air Quality Mitigation Measures**
CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize or eliminate any significant adverse air quality impacts. The Proposed Project's

[11] MND. Chapter 2: Project Description. Page 2-12.
[12] Appendix A: Air Quality/Greenhouse Gas/Energy Data. PDF Page 444.
[13] *Ibid*. Pages 4.17-6 to 4.17-7.
[14] CARB. August 27, 1998. Resolution 98-35. Accessed at: http://www.arb.ca.gov/regact/diesltac/diesltac.htm.
[15] South Coast Air Quality Management District. *Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*. Accessed at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.
[16] South Coast AQMD has developed the CEQA significance threshold of 10 in one million for cancer risk. When South Coast AQMD acts as the Lead Agency, South Coast AQMD staff conducts a HRA, compares the maximum cancer risk to the threshold of 10 in one million to determine the level of significance for health risk impacts, and identifies mitigation measures if the risk is found to be significant.

localized construction emissions from PM10 and PM2.5 were mitigated to 5.89 lbs/day and 3.45 lbs/day, respectively[17], which were slightly below South Coast AQMD's air quality CEQA localized significance thresholds for PM10 and PM2.5 at 7 lbs/day and 5 lbs/day, respectively[18]. To further reduce the Proposed Project's construction emissions as well as operational emissions from mobile sources, South Coast AQMD staff commends that the Lead Agency include additional air quality mitigation measures for implementation at the Proposed Project in the Final MND. For more information on potential mitigation measures as guidance to the Lead Agency, please visit South Coast AQMD's CEQA Air Quality Handbook website[19].

Construction-related Air Quality Mitigation Measures

a) Require the use of off-road diesel-powered construction equipment that meets or exceeds CARB and U.S. Environmental Protection Agency (USEPA) Tier 4 Final off-road emissions standards for equipment rated at 50 horsepower or greater during construction of the Proposed Project. Such equipment will be outfitted with Best Available Control Technology (BACT) devices including a CARB certified Level 3 Diesel Particulate Filter (DPFs). Level 3 DPFs are capable of achieving at least 85 percent reduction in particulate matter emissions. A list of CARB verified DPFs are available on the CARB website.

   To ensure that Tier 4 Final construction equipment or better would be used during the Proposed Project's construction, South Coast AQMD staff recommends that the Lead Agency include this requirement in applicable bid documents, purchase orders, and contracts with construction contractor(s). Successful contractor(s) must demonstrate the ability to supply the compliant construction equipment for use prior to any ground disturbing and construction activities. A copy of each unit's certified tier specification, model year specification, and CARB or South Coast AQMD operating permit (if applicable) shall be available upon request at the time of mobilization of each applicable unit of equipment. Additionally, the Lead Agency should require periodic reporting and provision of written documents by construction contractor(s) to ensure compliance, and conduct regular inspections to the maximum extent feasible to ensure compliance.

   In the event that construction equipment cannot meet the Tier 4 Final engine certification, the Project representative(s) or contractor(s) must demonstrate through future study with written findings supported by substantial evidence that is approved by the Lead Agency before using other technologies/strategies. Alternative applicable strategies may include, but would not be limited to, construction equipment with Tier 4 Interim or Tier 3 emission standards and reduction in the number and/or horsepower rating of construction equipment.

b) During construction, the Proposed Project will require a maximum of 27,400 cubic yards of soil import[20]. To reduce construction NOx emissions from haul truck trips, the Lead Agency should require the use of zero-emissions (ZE) or near-zero emissions (NZE) haul trucks during construction, such as trucks with natural gas engines that meet the CARB's adopted optional NOx emission standard of 0.02 grams per brake horsepower-hour (g/bhp-hr). At a minimum, require that truck operator(s)/construction contractor(s) commit to using 2010 model year or newer engines that meet CARB's 2010 engine emission standards of 0.01 g/bhp-hr for particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions or newer, cleaner trucks. To monitor and ensure ZE, NZE, or 2010 model year or newer trucks are used at the Proposed Project, the Lead Agency should require that truck operator(s)/construction contractor(s) maintain records of all trucks

[17] MND. Chapter 4: Air Quality. Page 4.3-12.
[18] *Ibid*. Pages 4.3-12.
[19] South Coast AQMD. Accessed at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook.
[20] MND. Chapter 2: Project Description. Page 2-12.

associated with the Proposed Project's construction and make these records available to the Lead Agency upon request. Alternatively, the Lead Agency should require periodic reporting and provision of written records by truck operator(s)/construction contractor(s) and conduct regular inspections of the records to the maximum extent feasible and practicable.

Operational-related Air Quality Mitigation Measures for Mobile Sources

c) During operation, the Proposed Project will involve 104 daily truck trips for the warehousing only use, or 107 and 59 daily truck trips for the manufacturing and warehousing uses, respectively. To reduce emissions from those trucks, the Lead Agency should require the use of ZE or NZE trucks during operation, such as trucks with natural gas engines that meet the CARB's adopted optional NOx emission standard of 0.02 grams per brake horsepower-hour (g/bhp-hr). At a minimum, the project operator(s) shall ensure, through sale or leasing agreements, that the truck fleet consist of trucks that meet the emissions standards of a 2010 vehicle model, and as trucks are replaced they are replaced with the newest available model. To monitor and ensure that ZE, NZE, or 2010 model year or newer trucks are used at the Proposed Project, the Lead Agency should require that operators maintain records of all trucks and equipment associated with the Proposed Project's operation and make these records available to the Lead Agency upon request. Alternatively, the Lead Agency should require periodic reporting and provision of written records by operators and conduct regular inspections of the records to the maximum extent feasible and practicable.

Technology is transforming the transportation sector at a rapid pace. Cleaner trucks such as ZE or NZE trucks are increasingly more feasible and commercially available as technology advances. If using ZE or NZE trucks as a mitigation measure to reduce the Proposed Project's operational air quality impacts is not feasible today, cleaner trucks could become feasible in a reasonable period of time within the lifetime of the Proposed Project (CEQA Guidelines Section 15364). Therefore, it is recommended that the Lead Agency develop a process with performance standards to deploy the lowest emission technologies and incentivize the use of ZE or NZE heavy-duty trucks during operation (CEQA Guidelines Section 15126.4(a)). The Lead Agency can and should develop the performance standards as follows or any other comparable standards in the Final MND.

- Develop a minimum amount of ZE or NZE heavy-duty trucks that the Proposed Project must use during each year of the operation to ensure adequate progress. Include this requirement in the Proposed Project's tenant selection and operation management bid documents and business agreement.

- Establish a tenant/truck operator(s) selection policy that prefers tenant/truck operator(s) who can supply the use of ZE or NZE heavy-duty trucks at the Proposed Project. Include this policy in the bid documents and business agreement.

- Develop a target-focused and performance-based process and timeline to review the feasibility to implement the use of ZE or NZE heavy-duty trucks during operation. Include this process and timeline in the Proposed Project's tenant selection and operation management bid documents and business agreement.

- Develop a project-specific process and criteria for periodically assessing progress in implementing the use of ZE or NZE heavy-duty trucks during operation. Include this process and criteria in the Proposed Project's tenant selection and operation management bid documents and business agreement.

4. **South Coast AQMD Permits and Rules**
Since the Proposed Project may include manufacturing uses, South Coast AQMD should be consulted in advance to determine permit requirements and/or South Coast AQMD rules that the Proposed Project must comply. The Lead Agency should initiate consultation with South Coast AQMD as required under CEQA Guidelines Section 15096(b). After consultation, if it is determined that a permit from South Coast AQMD is required for manufacturing operation, South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the Final MND. The Final MND should also include discussions of all applicable South Coast AQMD rules that the Proposed Project must comply. Any assumptions used in the Air Quality Analysis in the Final MND will be used as the basis for evaluating permit under CEQA and imposing permit conditions and limits for the Proposed Project. Generally, operation of portable engines and portable equipment units of 50 horsepower (hp) or greater that emit particulate matter require a permit from South Coast AQMD or registration with the Portable Equipment Registration Program (PERP) through CARB[21]. The Lead Agency should consult with South Coast AQMD's Engineering and Permitting staff to determine if the Proposed Project will involve uses of equipment requiring a South Coast AQMD permit or if registration under the PERP through CARB[22]. Should there be any questions on permits, please contact the South Coast AQMD's Engineering and Permitting staff at (909) 396-3385. For more general information on permits, please visit South Coast AQMD's webpage at: http://www.aqmd.gov/home/permits. For more information on the PERP Program, please contact CARB at (916) 324-5869 or visit CARB's webpage at: https://ww2.arb.ca.gov/our-work/programs/portable-equipment-registration-program-perp.

[21] South Coast Air Quality Management District. *Portable Equipment Registration Program (PERP)*. Accessed at: http://www.aqmd.gov/home/permits/equipment-registration/perp.
[22] *Ibid.*

Response No. 4

South Coast Air Quality Management District
Lijin Sun, J.D. Program Supervisor, CEQA IGR
July 16, 2020

4-1 This comment provides background information regarding South Coast Air Quality Management District (SCAQMD) and provides a general summary of the proposed project and the Draft IS/MND's air quality analysis. This comment does not identify a specific concern with the adequacy of the Draft IS/MND or raise an issue or comment specifically related to the Draft EIR's environmental analysis. The commenter requests that this letter be incorporated into the Final IS/MND, herein.

4-2 This comment summarizes the air quality analysis and health risk assessment provided in Draft IS/MND Section 4.3, *Air Quality*. Responses to specific comments are provided below.

4-3 The commenter states that the Draft IS/MND did not quantify emissions from haul truck trips that would be used to import the approximately 27,400 cubic yards of soil during construction. As requested by the commenter, the project's CalEEMod model runs have been revised to include the anticipated 27,400 cubic yards of soil import during construction. Draft IS/MND Table 4.3-1, *Construction Emissions*, and Table 4.3-4, *Localized Significance of Emissions*, have been revised to reflect the construction emissions which would occur with inclusion of this soil import. As shown in the analysis and in the CalEEmod model runs, the project would not exceed the established SCAQMD thresholds and construction-related impacts to air quality would remain less than significant. This clarification has been made to page 4.3-6 and page 4.3-12 of the Draft IS/MND and is reflected below and in Section 3.0, *Errata*, of the Final IS/MND.

Page 4.3-6, Table 4.3-1, Construction Emissions

Table 4.3-1
Construction Emissions

Emissions Source	Pollutant (pounds/day)[1,2]					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Construction Emissions[2,3,4]						
Year 1	3.39	33.26	22.36	0.04	1.83	1.59
Year 2	64.58	~~68.68~~ 89.81	~~52.87~~ 58.06	~~0.11~~ 0.17	~~8.73~~ 10.18	~~4.87~~ 5.31
SCAQMD Thresholds	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	***No***	***No***	***No***	***No***	***No***	***No***

Notes: ROG = reactive organic gases; NO_X = nitrous oxides; CO = carbon monoxide; SO_2 = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter

1. Emissions were calculated using CalEEMod version 2016.3.2 and EMFAC 2017, as recommended by the SCAQMD and CARB.
2. The reduction/credits for construction emissions are based on "mitigation" included in CalEEMod and are required by the SCAQMD Rules. The "mitigation" applied in CalEEMod includes the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; cover stock piles with tarps; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. The emissions results in this table represent the "mitigated" emissions shown in Appendix A.
3. The planned construction buildout, timing, and emissions would be the same for the Warehouse and Manufacturing Option and Warehouse Only Option.
4. The project's 13-month construction schedule would occur over two calendar years.

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for assumptions used in this analysis.

Page 4.3-12, Table 4.3-4, *Localized Significance of Emissions*

Table 4.3-4
Localized Significance of Emissions

Source	Pollutant (pounds/day)[3]			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Construction (Grading/Excavation Phase)				
On-Site Emissions[1]	46.14	~~29.54~~ 29.87	~~10.67~~ 10.74	~~5.43~~ 5.44
On-Site Emissions with SCAQMD Rules Applied[1,2]	46.14	29.87	~~5.89~~ 5.93	~~3.45~~ 3.46
Localized Significance Threshold[2]	82	842	7	5
Thresholds Exceeded?	***No***	***No***	***No***	***No***

Notes:

1. The grading/excavation phase emissions are presented as the worst-case scenario for NOx, CO, PM_{10}, and $PM_{2.5}$.
2. The reduction/credits for construction emissions applied in CalEEMod are based on the application of dust control techniques as required by SCAQMD Rule 403. The dust control techniques include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces twice daily; cover stockpiles with tarps; water all haul roads three times daily; and limit speeds on unpaved roads to 15 miles per hour.
3. The Localized Significance Threshold was determined using Appendix C of the SCAQMD Final Localized Significant Threshold Methodology guidance document for pollutants NO_X, CO, PM_{10}, and $PM_{2.5}$. The Localized Significance Threshold was based on the anticipated daily acreage disturbance for construction (2.5 acre; therefore the 2-acre threshold was used) and the source receptor area (SRA 4).

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for assumptions used in this analysis.

These changes provide a minor update, correction, or clarification and do not represent "significant new information" as defined in CEQA Guidelines Section 15088.5 and would not result in any new or substantially greater significant impacts as compared to those identified in the Draft IS/MND.

The commenter expresses concern that the project did not include a mobile health risk assessment (HRA). As mentioned by the commenter, the nearest sensitive receptor is 1,509 feet away from the proposed project site. According to the California Air Resources Board (CARB), *Air Quality and Land Use Handbook: A Community Health Perspective* (dated April 2005), an HRA is recommended for proposed distribution centers that are within 1,000 feet of a sensitive land use. The proposed project would be more than 1,500 feet away from the nearest sensitive receptor. In addition, according to Table 1-2, *Summary of Basis for Advisory Recommendations* of the *Air Quality and Land Use Handbook: A Community Health Perspective*, emission modeling and subsequent health risk modeling done by CARB and the SCAQMD showed that there would be an 80 percent drop-off in pollutant concentrations at approximately 1,000 feet from a distribution center.[1] Further, as described in Draft IS/MND Table 4.3-4, *Localized Significance Emissions*, the project would not exceed the SCAQMD localized emission thresholds. As such, it can be reasonably inferred that the project does not have the potential to create a significant health risk in terms of mobile truck diesel particulate emissions (DPM) and that a mobile HRA is not warranted.

4-4 The commenter requests the City provide written responses to all comments contained in the comment letter and requests that, if the recommended mitigation measures identified in Response to Comment 4-5 are not feasible, that specific reasons supported by substantial evidence are provided. This comment is acknowledged; responses to specific comments within this letter are provided above and below. The need for additional mitigation measures is not warranted, given that the project would result in less than significant impacts pertaining to air quality.

4-5 Refer to Response to Comment 4-3 regarding the project's estimated emissions from construction haul truck trips and why the Draft IS/MND does not incorporate a mobile health risk assessment. The commenter provides a list of additional mitigation measures to further reduce the project's construction emissions and operational mobile source emissions. As explained in Response to Comment 4-3, a mobile HRA is not warranted. Further, as shown in Response to Comment 4-3, the revised project emissions, with the inclusion of the 27,400 cubic yards of soil import as requested, still remain under the SCAQMD thresholds. Additional mitigation measures are not warranted, as impacts in this regard are less than significant.

[1] California Air Resources Board, *Air Quality and Land Use Handbook: A Community Health Perspective*, https://ww3.arb.ca.gov/ch/handbook.pdf, April 2005.

DEPARTMENT OF TRANSPORTATION
DISTRICT 7 – Office of Regional Planning
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Making Conservation a California Way of Life.

July 17, 2020

Max Castillo
City of Carson
Planning Division
701 East Carson Street
Carson, CA 90745

RE: Panattoni Project – Mitigated Negative Declaration (MND)
SCH # 2020060370
GTS # 07-LA-2020-03298
Vic. LA-405/PM: 9.23

Dear Max Castillo:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced MND. The project proposes the construction of three concrete tilt-up light industrial buildings totaling 292,400 square feet. The three buildings would include offices to support warehousing and/or manufacturing uses, with associated surface parking, landscaping, and truck loading docks for loading/unloading equipment and supplies. The project includes two development options, one with warehouse and manufacturing uses and one with warehouse uses only. The proposed structure siting and footprint would remain the same under both development options. In addition, a total of 387 parking spaces would be provided for employees and visitors, and a total of 54 spaces would be provided for truck loading docks. The City of Carson is the Lead Agency under the California Environmental Quality Act (CEQA). 5-1

The project is located approximately 3,000 feet away from the Interstate 405 (I-405) and Alameda Street on and off ramps. From reviewing the MND, Caltrans has the following comments:

- Please provide Caltrans with the detailed queueing analysis worksheets for the below off-ramps: 5-2
  - Wilmington Ave at I-405 NB Ramps
  - Wilmington Ave at I-405 SB Ramps
  - Alameda St at I-405 NB Ramps
  - 223rd St at I-405 SB Ramps
- The MND states "Should the City of Carson adopt a VMT threshold, the project Applicant or future Property Owner has the option to submit an updated VMT analysis to the City Engineer for review and approval." If an updated VMT analysis is submitted, please send this to Caltrans for its review. 5-3

The following information is included for your consideration.

The mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability. Thus, Caltrans encourages Lead Agencies to implement Transportation Demand Management (TDM) strategies that reduce Vehicle Miles Traveled (VMT) and Greenhouse Gas (GHG) emissions. 5-4

As discussed in the MND, if it is determined that after the implementation of Mitigation Measure TRA-1 the project would still exceed the City's threshold of 16.7 VMT per Employee, the project applicant shall be responsible for identifying and implementing travel demand measures to demonstrate the project's VMT per employee are reduced to less than significant levels. Below are some potential TDM measures the project applicant may want to consider implementing, regardless of whether Mitigation Measure TRA-1 is effective in decreasing VMT per Employee to less than significant levels:

- Ensure that no more parking than required by the City of Carson parking code is provided.
- Provide an adequate number of short-term and long-term bicycle parking spaces, and consider including spaces for cargo delivery bikes.
- Verify that the proposed driveways on 223rd Street will not have obstructions that could limit the ability of drivers to see approaching pedestrians and bicyclists, and vice-versa.
- Create a sidewalk along the unnamed street directly west of the development.
- Upgrade crosswalks to continental crosswalks at the below locations and ensure curb ramps are ADA compliant:
    - E 223rd Street & Wilmington Avenue
    - E 223rd Street & Tesoro Campus Drive
- Consider strategies to accommodate electric trucks per recommendations from the California Air Resources Board: https://ww2.arb.ca.gov/resources/fact-sheets/advanced-clean-trucks-fact-sheet

For additional TDM options, please refer to:

- The *Technical Advisory on Evaluating Transportation Impacts in CEQA* by the California Governor's Office of Planning and Research, dated December 2018: http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf, or
- The 2010 *Quantifying Greenhouse Gas Mitigation Measures* report by the California Air Pollution Control Officers Association (CAPCOA), available at http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf, or

Also, any transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State highways will need a Caltrans transportation permit. Caltrans recommends that the project limit construction traffic to off-peak periods to minimize the potential impact on State facilities. Caltrans supports Mitigation Measure TRA-2, which is the preparation of a Traffic Management Plan (TMP). If construction traffic is expected to cause delays on any State facilities, please submit the TMP detailing these delays for Caltrans' review. 5-5

If you have any questions about these comments, please contact Emily Gibson, the project coordinator, at Emily.Gibson@dot.ca.gov, and refer to GTS # 07-LA-2020-03298.

Sincerely,

Miya Edmonson

MIYA EDMONSON
IGR/CEQA Branch Chief
cc: Scott Morgan, State Clearinghouse

Response No. 5

California Department of Transportation District 7
Miya Edmonson, IGR/CEQA Branch Chief
July 17, 2020

5-1 This comment provides a general summary of the proposed project and notes that the proposed project is in close proximity to approximately 3,000 feet away from the Interstate 405 (I-405) and Alameda Street on- and off-ramps. Responses to specific comments within this letter are provided below.

5-2 The commenter requests that detailed queuing analysis worksheets are provided for the following: Wilmington Avenue at I-405 Northbound (NB) Ramps; Wilmington Avenue at I-405 Southbound (SB) Ramps; Alameda Street at I-405 NB Ramps; and 223rd Street at I-405 SB Ramps. Detailed queuing analysis worksheets are provided in Appendix F, *State Highway Level of Service Worksheets*, of the *Panattoni Project Traffic Impact Analysis, City of Carson* (Traffic Impact Analysis), prepared by Ganddini Group, Inc., dated June 3, 2020; refer to Draft IS/MND Appendix F, *Traffic Impact Analysis and VMT Analysis*.

5-3 The commenter requests that, if an updated Vehicle Miles Travelled (VMT) analysis is prepared for the project in conformance with Mitigation Measure TRA-1, that the updated VMT analysis be provided to the California Department of Transportation District 7 (Caltrans) for review and comment. It is acknowledged that any future updates to the *Panattoni Warehouse Project: Vehicle Miles Traveled Analysis* (VMT Analysis), prepared by Fehr and Peers, dated May 19, 2020, must be submitted to the City of Carson for review and approval; refer to Mitigation Measure TRA-1 on Draft IS/MND page 4.17-19. Should an updated VMT analysis determine that the project has the potential to impact State transportation facilities, the applicant will comply with all laws and regulations, including those implemented by Caltrans. This clarification has been made to page 4.17-19 of the Draft IS/MND and is reflected below and in Section 3.0, *Errata*, of the Final IS/MND.

Page 4.17-19, Mitigation Measure TRA-1

TRA-1	Prior to the project operations, the project Applicant shall enter into an Operational Labor Agreement with the City of Carson to implement a local hiring program consisting of reasonable efforts such as local job fairs to reduce employee vehicle miles travelled (VMT) to the City's threshold of 16.7 VMT per Employee or less. The Operational Labor Agreement shall specify that the Property Owner, or designee, provides to the City Traffic Engineer on an annual basis an Employee VMT Monitoring Table, or other VMT monitoring system, as approved by the City Traffic Engineer, that identifies commute distance bins and the proportion of employees within each bin to determine the project's average home-based work VMT per employee. A sample Employee VMT Monitoring Table is included as Attachment B of the *Panattoni Warehouse Project: Vehicle Miles Traveled Analysis*, prepared by Fehr and Peers, dated May 19, 2020. The Employee VMT Monitoring Table, or other approved VMT monitoring system, shall be approved by the City of Carson Traffic Engineer prior to project operations.

If, through preparation of the Employee Monitoring Table, or other approved VMT monitoring system, it is determined that the project would still exceed the City's threshold of 16.7 VMT per Employee, the project Applicant shall be responsible for identifying and implementing travel demand measures to demonstrate the project's VMT per employee are reduced to less than significant levels. These measures may include, but are not limited to, identifying and paying for off-street parking, providing transit passes to employees, providing commuter incentives, providing transit subsidies, providing parking cash-outs, commute marketing program, or implementing carpool/vanpool incentives. The project Applicant shall be responsible for demonstrating the effectiveness of these measures through the VMT monitoring system to reduce the project's VMT per employee to the City's threshold of 16.7, as verified by the City Traffic Engineer.

Should the City of Carson adopt a VMT threshold, the project Applicant or future Property Owner has the option to submit an updated VMT analysis to the City Engineer for review and approval. Should the VMT analysis show that the project is less than significant per the City's adopted VMT threshold, this mitigation measure shall no longer apply. Should an updated VMT analysis determine that the project has the potential to impact State transportation facilities, the Applicant shall submit the TMP for review and comment by Caltrans, prior to approval by the City Engineer .

This change provides a minor update, correction, or clarification and does not represent "significant new information" as defined in CEQA Guidelines Section 15088.5 and would not result in any new or substantially greater significant impacts as compared to those identified in the Draft IS/MND.

5-4 The commenter notes that mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability. Thus, Caltrans encourages Lead Agencies to implement Transportation Demand Management (TDM) strategies that reduce VMT and greenhouse gas (GHG) emissions. The commenter's suggested TDM measures include the following:

- Ensure that no more parking than required by the City of Carson parking code is provided.
- Provide an adequate number of short-term and long-term bicycle parking spaces, and consider including spaces for cargo delivery bikes.
- Verify that the proposed driveways on 223rd Street will not have obstructions that could limit the ability of drivers to see approaching pedestrians and bicyclists, and vice-versa
- Upgrade crosswalks to continental crosswalks at the below locations and ensure curb ramps are ADA compliant:
    - East 223rd Street and Wilmington Avenue
    - East 223rd Street and Tesoro Campus Drive
- Consider strategies to accommodate electric trucks per recommendations from the California Air Resources Board.

The *Panattoni Warehouse Project: Vehicle Miles Traveled Analysis* (VMT Analysis), prepared by Fehr and Peers, dated May 19, 2020, considered TDM measures related to parking, transit, commute trip reduction, and local hiring; refer to Draft IS/MND Appendix F. While the effect of

combining some of the measures suggested by the commenter would likely result in a reduction of VMT for the project's employees, it would not be sufficient to mitigate the VMT impact without inclusion of a local hiring program to ensure the hiring of individuals within a certain distance from the project site (as required by Draft IS/MND Mitigation Measure TRA-1). As no significant impacts would result after implementation of Mitigation Measure TRA-1, no additional TDM mitigation measures are required. Notwithstanding, the comment is acknowledged and will be considered by the City of Carson and the project Applicant. No further response is required.

5-5 The commenter notes that the transportation of heavy construction equipment or materials, which requires use of oversized-transport vehicles on State highways, will need a Caltrans transportation permit and recommends that large-size truck trips be limited to off-peak commute periods to minimize potential transportation impacts on State facilities. The commenter also supports the Draft IS/MND's inclusion of Mitigation Measure TRA-2, which requires implementation of a traffic management plan (TMP) to maintain emergency access during the construction process. The commenter also notes that the TMP should be submitted to Caltrans, should construction traffic be anticipated to result in delays on any State transportation facilities. It is acknowledged that the project is required to submit a TMP to be approved by the City of Carson (Mitigation Measure TRA-2) on Draft IS/MND page 4.17-20. Should a Caltrans transportation permit be required for the project, the Applicant will comply with all laws and regulations, including those implemented by Caltrans. This clarification has been made to page 4.17-21 of the Draft IS/MND and is reflected below and in Section 3.0, *Errata*, of the Final IS/MND.

Page 4.17-21, Mitigation Measure TRA-2

TRA-2	Prior to the initiation of construction, the project Applicant shall prepare a Traffic Management Plan (TMP) for approval by the City of Carson Traffic Engineer. Should a Caltrans transportation permit be required for the project, the Applicant shall submit the TMP for review and comment by Caltrans, prior to approval by the City of Carson Traffic Engineer. The TMP shall include measures such as construction signage, limitations on timing for lane closures to avoid peak hours, temporary striping plans, and the need for a construction flagperson to direct traffic during heavy equipment use. The TMP shall specify that one direction of travel in each direction must always be maintained for East 223rd Street throughout project construction. The TMP shall be incorporated into project specifications for verification prior to final plan approval.

This change provides a minor update, correction, or clarification and does not represent "significant new information" as defined in CEQA Guidelines Section 15088.5 and would not result in any new or substantially greater significant impacts as compared to those identified in the Draft IS/MND.

Golden State Environmental Justice Alliance
Green Jobs & Clean Communities
P.O. Box 79222
Corona, CA 92877

July 17, 2020

VIA EMAIL

Max Castillo, Assistant Planner
Community Development Department – Planning Division
701 East Carson Street
Carson, California 90745
MCastillo@carson.ca.us

SUBJECT: COMMENTS ON PANATTONI PROJECT MND (SCH NO. 2020060370)

To whom it may concern:

Thank you for the opportunity to comment on the Mitigated Negative Declaration (MND) for the proposed Panattoni Project. Please accept and consider these comments on behalf of Golden State Environmental Justice Alliance. Also, Golden State Environmental Justice Alliance formally requests to be added to the public interest list regarding any subsequent environmental documents, public notices, public hearings, and notices of determination for this project. Send all communications to Golden State Environmental Justice Alliance P.O. Box 79222 Corona, CA 92877. 6-1

1.0 Summary

As we understand it, the project proposes the development of two alternative development scenarios for the 14.3 acre project site: 6-2

Alternative 1: Warehouse & Manufacturing

- Three separate buildings ranging from approximately 61,400 to 134,000 square feet
- Warehouse: 146,200 square feet
- Manufacturing: 127,200 square feet
- Office: 19,000 square feet

292,400 square feet total combined floor area

Alternative 2 Warehouse Only:

- Three separate buildings ranging from approximately 61,400 to 134,000 square feet
- Warehouse: 273,400 square feet
- Office: 19,000 square feet

292,400 square feet total combined floor area

1.1 Notice of Intent

Pursuant to CEQA 15072 (G)(3), a Notice of Intent to Adopt a Mitigated Negative Declaration shall include the date, time, and place of any scheduled public meetings or hearings to be held by the lead agency on the proposed project, when known to the lead agency at the time of notice. The Public Notice for the July 29, 2020 Planning Commission meeting was published July 6, 2020 on the City's website. Given the time required to prepare these notices and the staff report itself, it is clear that the day, time, and place of the scheduled public hearing was known to the lead agency at the time the MND Notice of Intent/Availability was published on June 18, 2020. The public hearing must be delayed in order to publish a Notice of Intent/Availability in compliance with CEQA § 15072. 6-3

2.2 Environmental Setting

The Environmental Setting states that remediation activities for several monitoring wells, extraction wells, and intake wells dispersed throughout the site currently being conducted. The MND does not accurately or adequately describe the project, meaning "the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment" (CEQA § 15378). The project has been piecemealed into two phases - a remediation phase and a development phase. The Project Description and Environmental Setting exclude pertinent information about the remediation that is included later in the MND, such as the duration of the remediation activities "is not known but is expected to be at least five years." The MND is not reliable as an informational document and is misleading to the public and decision makers. A project EIR must 6-4

be prepared which provides an adequate environmental analysis that accurately represents both the site remediation and project development without piecemealing the project into multiple phases, which is implementation of the proposed project without CEQA review.

4.3 Air Quality

The CalEEMod output sheets do not accurately reflect the project as proposed in the Project Description. The CalEEMod analysis did not include any of the haul trips required for either development scenario even though the Project Description states 27,400 cubic yards of imported soil is required. Assuming a standard 10 cubic yard capacity for each haul truck, the project would generate at minimum 2,740 haul truck trips during construction. An EIR must be prepared for the project which includes accurate Air Quality modeling necessary to accommodate approximately 27,400 cubic yards of material to complete the project. 6-5

Additionally, the CalEEMod output sheets incorrectly model both development scenarios. The Warehouse Only development scenario is modeled as general heavy industry. The Warehouse and Manufacturing development scenario is modeled as general heavy industry (165,200 sf) and manufacturing (127,200 sf). Both analyses must be revised to accurately model the Warehouse portions of the project as Warehouse in CalEEMod. At least 50% of the proposed Warehouse space should be modeled as refrigerated/cold storage or it must be added as a mitigation measure and condition of approval to restrict building construction and prohibit all future tenants from including refrigeration/cold storage. This is especially necessary as the operational building energy analysis states the project will consume energy for refrigeration. 6-6

The CalEEMod analysis also utilized a vendor trip length of 6.90 miles for all phases of construction. The MND does not provide information regarding where the construction materials are coming from or if they are all coming from the same location during all phases. The same is true for the worker trip length at 14.70 miles for all phases of construction. A project EIR must be prepared which includes supporting evidence demonstrating the worker and vendor trip length to be utilized for analysis. 6-7

The MND's conclusion that the project does not exceed the assumptions reflected in the 2016 AQMP is erroneous. The MND relies upon approval of proposed the General Plan Amendment and Zone Change for consistency with all requirements. This is erroneous and misleading as the proposed project must be evaluated in accordance with its current GP Land Use and Zoning designations to determine if it exceeds the 2016 AQMP assumptions. Further, the MND relies on 6-8

unduly low employment generation estimates to conclude the project will generate only 124 employees and an ultimate population increase of 448 persons. The Southern California Association of Government (SCAG) Employment Density Study[1] provides the following applicable employment generation rates for Los Angeles County:

1 employee per 1,518 sf of warehouse area
1 employee per 829 sf of manufacturing area
1 employee per 319 sf of office area

Application of these ratios results in the following calculation:

Alternative 1: Warehouse & Manufacturing

- Warehouse: 146,200 square feet / 1,518 sq ft = 97 employees
- Manufacturing: 127,200 square feet / 829 sq ft = 154 employees
- Office: 19,000 square feet / 319 sq ft = 60 employees

311 employees

Alternative 2 Warehouse Only:

- Warehouse: 273,400 square feet / 1,518 sq ft = 181 employees
- Office: 19,000 square feet / 319 sq ft = 60 employees

241 employees

A project EIR must be prepared which provides accurate employment generation estimates utilized for analysis. The analysis must provide meaningful evidence to support the conclusion that the project does not exceed the assumptions reflected in the 2016 AQMP even though a General Plan Amendment and Zone Change are required for the project to proceed.

The MND also does not provide any consistency analysis of the proposed project in accordance with the following applicable Air Quality goal and policy from the General Plan and a project EIR must be prepared with this analysis:

6-9

Goal: AQ-5: Reduce emissions related to industry to enhance air quality.

AQ-5.3 Discourage PM10 producers and other polluting industries from locating in the City.

[1] SCAG Employment Density Study https://www.mwcog.org/file.aspx?A=QTTlTR24POOOUIw5mPNzK8F4d8djdJe4LF9Exj6lXOU%3D

Section 4101(J) of the Carson Municipal Code permits construction activity between the hours of 7:00 a.m. and 6:00 p.m., Monday - Saturday. The MND does not provide a "worst-case scenario" analysis of construction equipment emitting pollutants for the legal 11 hours per day, 6 days per week. The MND utilizes the CalEEMod default setting of 8 hours per day, 5 days per week. It does not include substantive evidence or explanation for analysis of the proposed project utilizing the default settings when it is legally possible and probable for construction to occur for much longer hours (11 hours per day permitted while 8 hours per day analyzed) and an additional day (6 days per week permitted while 5 days per week analyzed) than modeled in the Air Quality Analysis. An EIR must be prepared with revised Air Quality modeling to account for these legally possible longer construction days and increased number of construction days. If shorter hours of construction are proposed, this must be included as an enforceable mitigation measure with field verification by an enforcement entity of the lead agency (CEQA § 21081.6 (b)). 6-10

Further, the MND does not include for analysis relevant environmental justice issues in reviewing potential impacts, including cumulative impacts from the proposed project. This is especially significant as the surrounding community is highly burdened by pollution. According to CalEnviroScreen 3.0, CalEPA's screening tool that ranks each census tract in the state for pollution and socioeconomic vulnerability, the proposed project's census tract (6037980002) ranks worse than 99% of the rest of the state overall. The surrounding community, including sensitive receptors such as residences, Del Amo and Bonita Street Elementary Schools to the north and west, bears the impact of multiple sources of pollution and is more polluted than average on every pollution indicator measured by CalEnviroScreen. For example, the census tract to the north (6037543306) ranks worse than 99% of the rest of the state overall and has a higher burden of diesel particulate matter than 80% of the state and more hazardous waste facilites and generators than 99% of the state. 6-11

Further, the census tract to the north is a diverse community including 32% Hispanic residents, 37% Asian residents, and 20% African-American residents, which are all especially vulnerable to the impacts of pollution. The community has a high rate of linguistic isolation, meaning 50% of households speak little to no English. The community has a high rate of low educational attainment, meaning 62% of the census tract over age 25 has not attained a high school diploma, which is an indication that they may lack health insurance or access to medical care. Additionally, the surrounding community has a higher proportion of babies born with low birth weights than 82% of the state, which makes those children more vulnerable to asthma and other health issues. 6-12

4.6 Energy

The deficiencies in the CalEEMod analysis for Air Quality are repeated in the Energy analysis. The CalEEMod analysis did not include any of the haul trips required for either development scenario even though the Project Description states 27,400 cubic yards of imported soil is required. Assuming a standard 10 cubic yard capacity for each haul truck, the project would generate at minimum 2,740 haul truck trips during construction. An EIR must be prepared for the project which includes accurate Energy modeling necessary to accommodate approximately 27,400 cubic yards of material to complete the project. 6-13

Additionally, the CalEEMod output sheets incorrectly model both development scenarios. The Warehouse Only development scenario is modeled as general heavy industry. The Warehouse and Manufacturing development scenario is modeled as general heavy industry (165,200 sf) and manufacturing (127,200 sf). Both analyses must be revised to accurately model the Warehouse portions of the project as Warehouse in CalEEMod. At least 50% of the proposed Warehouse space should be modeled as refrigerated/cold storage or it must be added as a mitigation measure and condition of approval to restrict building construction and prohibit all future tenants from including refrigeration/cold storage. This is especially necessary as the operational building energy analysis states the project will consume energy for refrigeration. 6-14

The MND also concludes that since the project is required to comply with Title 24 energy requirements it will conform to State's goal of promoting energy and lighting efficiency and the City's EECAP, resulting in less than significant environmental impacts. The MND presents a CalEEMod analysis of the project's potential energy consumption. However, the MND does not include the applicable thresholds for each category in California Energy Code Title 24, Part 6 standards in order to demonstrate that the project will meet those thresholds. The project is required to comply with the 2019 Building Energy Efficiency Standards. The State of California lists two approved compliance modeling softwares[2] for non-residential buildings: CBECC-Com and EnergyPro. CalEEMod is not listed as an approved software. The modeling provided in the MND does not comply with the 2019 Building Energy Efficiency Standards and under reports the project's potentially significant GHG impacts to the public and decision makers. Since the MND did not accurately or adequately model the GHG impacts in compliance with Title 24, a finding of significance must be made. Further, a project EIR with energy modeling in one of the 6-15

[2] 2019 Building Energy Efficiency Standards Approved Computer Compliance Programs, California Energy Commission. https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2019-building-energy-efficiency-2

two approved software types must be circulated for public review in order to adequately analyze the project's potentially significant energy impacts.

It must also be noted that the City of Carson is not listed as a jurisdiction with local energy standards approved by the CA Energy Commission[3]. According to the CA Energy Commission, "Local jurisdictions are required to apply to the Energy Commission for approval, documenting the supporting analysis for how the local government has determined that their proposed Standards will save more energy than the current statewide Standards and the basis of the local government's determination that the local standards are cost-effective." Therefore, compliance with the City of Carson's EECAP does not comply with CA Energy Commission standards or AB 32/SB 32. The MND is misleading to the public and decision makers by stating compliance with these standards when the local jurisdiction standards have not been approved by the CA Energy Commission. The MND also does not include the emissions thresholds for each emission type yet still concludes that the project will meet or exceed the emissions thresholds. A project EIR must be prepared with adequate analysis of project energy consumption utilizing an approved modeling software in order to be a reliable informational document in compliance with CEQA. 6-16

4.8 Greenhouse Gas Emissions

The deficiencies in the Energy and Air Quality analyses result in further deficiencies in the Greenhouse Gas Analysis. This includes similar issues such as an unsupported worker/vendor trip length, exclusion of haul trips for 27,400 cubic yards of imported soil, and incorrectly modeling the proposed land use mix for both development scenarios from analysis. An EIR must be prepared for the project which includes a revised Greenhouse Gas Analysis which includes a complete and accurate analysis of the potentially significant impacts (CEQA § 15063 (a)(1)). 6-17

4.11 Land Use and Planning

The General Plan Land Use compatibility table is misleading to the public and decision makers. For example, the MND states the project is consistent with Land Use Element Policy 7.1: 6-18

"Periodically review, and amend if necessary, the City's Zoning Ordinance to ensure the compatibility of uses allowed within each zoning district."

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[3] Local Ordinances Exceeding the 2016 Building Energy Efficiency Standards, California Energy Commission https://www.energy.ca.gov/title24/2016standards/ordinances/

This policy is irrelevant to the proposed project. This policy refers to the City's responsibility to review the Zoning *Ordinance* to implement development standards (height, setbacks, etc.) to improve compatibility between uses. This policy does not refer to updating the Zoning *Map* and changing the Zoning designation of any property, which is proposed by the project.

Again, the MND utilizes the request for a General Plan Amendment and Zone Change as a means of consistency for the proposed project and the applicable policies. The proposed project must be analyzed in accordance with its existing General Plan and Zoning designations to accurately and adequately analyze all potentially significant impacts. A project EIR must be prepared which includes a complete analysis of all relevant, applicable General Plan policies in relation to the proposed project and its current land use designations, including the following: 6-19

Goal: AQ-5: Reduce emissions related to industry to enhance air quality.
Policy AQ-5.3 Discourage PM10 producers and other polluting industries from locating in the City.

4.13 Noise

The MND include the following Mitigation Measure to reduce groundborne vibration and noise impacts to less than significant levels:

NOI-1 Prior to the initiation of construction, the Applicant shall prepare a paving control plan to ensure that the paving process does not result in damage to the western and southern industrial structures. The paving control plan shall be subject to the Building and Safety Department's approval prior to issuance of a grading permit. To reduce groundborne vibration levels, the paving control plan shall stipulate that static (non-vibratory) rollers shall be used as an alternative to vibratory rollers within 15 feet of the western and southern Poly One Corporation industrial structures (Assessor's Parcel Number [APN] 7315-008-022) 6-20

MM NOI-1 is unenforceable as there is no enforcement entity, field verification, or lead agency oversight component to observe or follow up on implementation of the paving control plan. This must be revised to include consistent and timely verification of compliance by the Lead Agency throughout the duration of project construction in order to comply with CEQA § 15126.4 (a)(2).

4.14 Population and Housing

Again, the MND utilizes unduly low employment generation estimates to conclude the project will generate only 124 employees and an ultimate population increase of 448 persons. The Southern California Association of Government (SCAG) Employment Density Study[4] provides the following applicable employment generation rates for Los Angeles County:

1 employee per 1,518 sf of warehouse area
1 employee per 829 sf of manufacturing area
1 employee per 319 sf of office area

Application of these ratios results in the following calculation:

Alternative 1: Warehouse & Manufacturing

- Warehouse: 146,200 square feet / 1,518 sq ft = 97 employees
- Manufacturing: 127,200 square feet / 829 sq ft = 154 employees
- Office: 19,000 square feet / 319 sq ft = 60 employees

311 employees

Alternative 2 Warehouse Only:

- Warehouse: 273,400 square feet / 1,518 sq ft = 181 employees
- Office: 19,000 square feet / 319 sq ft = 60 employees

241 employees

A project EIR must be prepared which provides accurate employment generation estimates utilized for analysis. The analysis must provide meaningful evidence to support the conclusion that the project will not induce unplanned indirect or direct population growth.

6-21

4.17 Transportation

The Traffic Impact Analysis (TIA) states that "Caltrans District 7 *generally* requires freeway mainline and/or off-ramp queueing analysis if a project meets any of the following screening criteria," and lists thresholds regarding 100 vehicles or more during peak hours. However, the MND utilizes uncertain language in stating that it is a general requirement without providing official threshold documentation. The MND does not include a reference to the Caltrans documents detailing those thresholds or include the document name. CEQA § 15150 (f) states

6-22

[4] SCAG Employment Density Study https://www.mwcog.org/file.aspx?A=QTTlTR24POOOUIw5mPNzK8F4d8djdJe4LF9Exj6lXOU%3D

that incorporation by reference is most appropriate for including long, descriptive, or technical materials that provide general background but do not contribute directly to the analysis of the problem at hand. The Caltrans District 7 analysis thresholds contribute directly to the analysis of the problem at hand. Not including the Caltrans analysis information as attachments for public review is in violation of CEQA § 15150 (f). A project EIR must be prepared which includes the Caltrans analysis information for public review.

Conclusion

For the foregoing reasons, GSEJA believes the MND is flawed and an EIR must be prepared for the proposed project and circulated for public review. Golden State Environmental Justice Alliance requests to be added to the public interest list regarding any subsequent environmental documents, public notices, public hearings, and notices of determination for this project. Send all communications to Golden State Environmental Justice Alliance P.O. Box 79222 Corona, CA 92877. 6-23

Sincerely,

Board of Directors
Golden State Environmental Justice Alliance

Response No. 6

Golden State Environmental Justice Alliance
Board of Directors
July 17, 2020

6-1 This introductory comment requests to be added to the public interest list regarding any subsequent environmental documents, public notices, public hearings, and notices of determination for the proposed project. As such, the Golden State Environmental Justice Alliance has been incorporated into the City's public interest list for the proposed project and will be notified of any subsequent environmental documents, public notices, public hearings, and notices of determination for the project, as requested. No further response is required.

6-2 This comment includes a general summary of the proposed project and does not identify a specific concern with the adequacy of the Draft IS/MND or raise an issue or comment specifically related to the Draft IS/MND's environmental analysis. Therefore, no further response is warranted.

6-3 The commenter claims that the proposed project's Notice of Intent (NOI) to Adopt a Mitigated Negative Declaration (published on June 18, 2020) did not include the date, time, and place of the scheduled Planning Commission hearing for July 29, 2020 pursuant to CEQA Guidelines Section 15072(G)(3). As stated in the NOI, a public hearing date was not scheduled yet and a separate notice of the public hearing date would be circulated subsequently once a public hearing date had been scheduled. In accordance with all applicable City of Carson public noticing requirements and CEQA Guidelines Section 15072(G)(3), the City published the subsequent public notice on July 15, 2020 for the Planning Commission hearing scheduled for July 29, 2020. The commenter's claim that the City already knew of the scheduled Planning Commission hearing date at the time the NOI was published is unsubstantiated. The City complied with all applicable City of Carson public noticing requirements and CEQA Guidelines Section 15072(G)(3).

6-4 The commenter suggests that the proposed project has been piecemealed into two phases, a remediation phase and a development phase, and that the Draft IS/MND does not analyze the project as a whole. The commenter also claims that the project description and environmental setting sections of the Draft IS/MND exclude pertinent information regarding on-site remediation that is later mentioned in the Draft IS/MND. The commenter incorrectly combines existing on-site remediation activities with the proposed project. The remediation activities currently ongoing are not related to the proposed project and would continue to occur regardless of if the project is developed. As stated in Section 3.0, *Project Description*, and further described in Section 4.9, *Hazards and Hazardous Materials*, of the Draft IS/MND, the project site was a former polyvinyl chloride plant and is currently undergoing remediation activities with oversight by the Department of Toxic Substances Control (DTSC), which is identified as a responsible agency for the proposed project in Draft IS/MND Section 2.6, *Agreements, Permits, and Approval*. These remediation activities are not associated with the proposed project. However, it should be noted that the Draft IS/MND does evaluate the potential for existing remediation activities on-site to

impact development of the proposed project, including short-term construction and long-term operational impacts; refer to Draft IS/MND Section 4.9 and 4.10, *Hydrology and Water Quality*.

6-5 Refer to Response to Comment 4-3. As shown, the project would be under the applicable South Coast Air Quality Management District (SCAQMD) thresholds with the inclusion of the 27,400 cubic yards of soil import.

6-6 The commenter states that the CalEEMod output sheets for air quality analysis incorrectly model the proposed warehouse use as 'General Heavy Industry' rather than 'Warehouse' in CalEEMod under both development scenario models. According to the California Air Pollution Control Officers Association (CAPCOA) *California Emissions Estimator Model – Appendix D Default Data Tables* (Dated October 2017), the General Heavy Industry and Warehouse land uses in CalEEMod have the same energy, solid waste, and water usage. Further, these land uses would have similar construction assumptions. The main difference between the two land uses is the CalEEMod default mobile trip uses. However, the Draft IS/MND and CalEEMod modeling analyzed the average daily trips (ADT) and vehicle miles traveled (VMT) from the project's *Panattoni Project Traffic Impact Analysis, City of Carson* (Traffic Impact Analysis), prepared by Ganddini Group, Inc., dated June 3, 2020, and *Panattoni Warehouse Project: Vehicle Miles Traveled Analysis* (VMT Analysis), prepared by Fehr and Peers, dated May 19, 2020. As shown in the Draft IS/MND and in Response to Comment 4-3, the project would not exceed SCAQMD thresholds during construction or operation. No changes to the CalEEMod output sheets are necessary nor required in this regard.

Additionally, the commenter states that at least 50 percent of the proposed warehouse use should be modeled as 'Refrigerated/Cold Storage' or a mitigation measure/condition of approval is required to restrict future tenants from refrigeration/cold storage use. The project does not propose and is not designed for cold storage uses. The City has included a condition of approval specifically stating that In the event that such use is proposed, an amendment would be required to the project's entitlements to ensure such uses are analyzed. In the event that cold storage uses are proposed in the future, further analysis would be required.

6-7 The commenter requested supporting evidence regarding the assumed vendor trip length of 6.90 miles and worker trip length of 14.70 miles in the project's CalEEMod modeling. The vendor and worker trip lengths are based on CalEEMod defaults. No changes are necessary in this regard.

6-8 Refer to Response to Comment 4-6 regarding the project's consistency with the SCAQMD *2016 Air Quality Management Plan* (2016 AQMP) projections.

The commenter also states that the project's estimated employee and population generation is too low and provides alternate employee generation rate land use categories to be utilized, including those for Low-Rise Office, Light Manufacturing, and Warehouse uses. The commenter provides the same source for employment generation rates as the Draft IS/MND (Table 4A, *Derivation of Square Feet per Employee Based on Average Employees Per Acre and Average FAR, Los Angeles County*, of the Southern California Association of Governments' *Employment Density Study*, dated October 31, 2001). The Low-Rise Office land use category was not utilized in the Draft IS/MND to calculate the approximately 19,000 square feet of office use associated

with each development scenario, because the proposed office use is affiliated with the warehousing/manufacturing uses within the same buildings and it is inaccurate to assume a separate low-rise office use (e.g., a separate office building unaffiliated with the proposed warehousing/manufacturing uses). As such, the Draft IS/MND combines the approximately 19,000 square feet of office use with the warehousing/manufacturing uses in the employment calculations. Additionally, the more conservative generation rate for Light Manufacturing use (829 square feet per employee or 18.49 employees per acre) was utilized rather than the generation rate for Warehouse use (1,518 square feet per employee or 12.96 employees per acre). Therefore, the Draft IS/MND's employment generation is considered conservative and a "worst-case" scenario.

6-9 The commenter states that an environmental impact report (EIR) is required, since the Draft IS/MND excludes a consistency analysis of the proposed project with the *City of Carson General Plan* (General Plan) Policy AQ-5.3, which discourages PM_{10} producers and other polluting industries from locating in the City. While Policy AQ-5.3 discourages PM_{10} producers (e.g., industrial uses and associated truck trips), it does not outright prohibit industrial development from occurring within Carson. Further, Draft IS/MND Tables 4.3-2, *Long-Term Air Emissions (Warehouse Only Option)*, and 4.3-3, *Long-Term Air Emissions (Warehouse and Manufacturing Option)* show that the project's long-term PM_{10} emissions would not exceed SCAQMD's regional thresholds under either development scenario. Thus, project implementation would be consistent with the City's goal to reduce emissions related to industry to enhance air quality (Goal AQ-5) and policy to discourage PM_{10} producers and other polluting industries from locating in the City.

6-10 The commenter states that the Draft IS/MND does not conservatively analyze a "worst-case" scenario of construction activity occurring for 11 hours per day, six days per week, in accordance with *Carson Municipal Code* (Municipal Code) Section 4101(J), which allows for construction between the hours of 7:00 a.m. and 6:00 p.m. from Monday through Saturday. Rather, the air quality analysis utilizes the CalEEMod default for construction activities to occur eight hours per day, five days per week.

Although construction activities are permitted to occur 11 hours per day, 8 hours per day is considered to be conservative. This is due to the model's worst-case assumption that all construction equipment is operating simultaneously for the entire 8 hours during each day of the construction period. In reality, construction equipment often operates only for a portion of the workday and is not necessarily used every day so that at any given time only some pieces of the total fleet are operating. It is not reasonable to assume that all pieces of construction equipment will operate simultaneously for 11 hours per day. In reality, operation of construction equipment would occur intermittently and would vary depending on the nature or phase of construction (e.g., demolition, site preparation, grading, paving, building construction, and architectural coatings). Further, adding addition days of construction is less conservative as CalEEMod analyzes the maximum daily emissions in pounds per day. By adding additional construction days, the model would analyze a lower daily emission rate (pounds per day). Further, it is acknowledged that the CalEEMod default values (with these built in assumptions) are prepared by the SCAQMD and California Air Districts, and approved by the California Air Pollution Control Officers Association (CAPCOA). Thus, the CalEEMod defaults are conservative and no changes are necessary.

6-11 The commenter requests environmental justice analysis with regards to siting a proposed industrial development near sensitive receptors and within a census tract that, according to the California Environmental Protection Agency's CalEnviroScreen 3.0 screening tool, ranks worse in air pollution and socioeconomic vulnerability than 99 percent of the rest of the State. Environmental justice is not a CEQA environmental topical area and thus, is not analyzed within the Draft IS/MND, other than in the context of consistency with the City's General Plan goals and policies; refer to the General Plan consistency analysis provided in Draft IS/MMD Section 4.11. Nevertheless, this concern is acknowledged and will be considered by the City of Carson decisionmakers.

6-12 The commenter provides socioeconomic information regarding residents within the census tract to the north of the project site. This comment does not identify a specific concern with the adequacy of the Draft IS/MND or raise an issue or comment specifically related to the Draft IS/MND's environmental analysis. Therefore, no further response is warranted. Nevertheless, this concern is acknowledged and will be considered by the City of Carson decisionmakers.

6-13 Refer to Response to Comment 4-3. As requested by the commenter, the project's CalEEMod model runs have been revised to include the anticipated 27,400 cubic yards of soil import during construction. Draft IS/MND Table 4.6-1, *Project and Countywide Energy Emissions* has been revised to reflect the construction fuel consumption that would occur with inclusion of this soil import. As shown in the analysis and in the CalEEmod model runs, construction fuel consumption would not be any more inefficient, wasteful, or unnecessary than other similar development projects of this nature would remain less than significant. This clarification has been made to page 4.6-2 and page 4.6-3 of the Draft IS/MND and is reflected below and in Section 3.0, *Errata*, of the Final IS/MND.

Page 4.6-2, Impact Statement 4.6 (a), Last Paragraph

The project's estimated energy consumption is summarized in Table 4.6-1, *Project and Countywide Energy Consumption*. As shown in Table 4.6-1, the project's electricity usage would constitute an approximate 0.0045 percent increase over Los Angeles County's typical annual electricity and an approximate 0.0080 percent increase over Los Angeles County's typical annual natural gas consumption. The project's construction and operational vehicle fuel consumption would increase Los Angeles County's consumption by ~~0.0085~~ 0.0116 percent and 0.0030 percent, respectively.

Table 4.6-1
Project and Countywide Energy Consumption

Energy Type	Project Annual Energy Consumption[1]	Los Angeles County Annual Energy Consumption[2]	Percentage Increase Countywide[2]
Electricity Consumption	3,063 MWh	68,486,000 MWh	0.0045%
Natural Gas Consumption	234,656 therms	2,921,000,000 therms	0.0080%
Fuel Consumption			
• Construction Fuel Consumption[3]	~~45,291~~ 61,711 gallons	533,800,838 gallons	~~0.0085~~ 0.0116%

• Operational Automotive Fuel Consumption[3]	118,777 gallons	3,975,480,911 gallons	0.0030%

Notes:

1. As modeled in CalEEMod version 2016.3.2.
2. The project increases in electricity and natural gas consumption are compared to the total consumption in Los Angeles County in 2018. The project increases in automotive fuel consumption are compared with the projected Countywide fuel consumption in 2020.

   Los Angeles County electricity consumption data source: California Energy Commission, *Electricity Consumption by County*, http://www.ecdms.energy.ca.gov/elecbycounty.aspx, accessed April 10, 2020.

   Los Angeles County natural gas consumption data source: California Energy Commission, *Gas Consumption by County*, http://www.ecdms.energy. ca.gov/gasbycounty.aspx, accessed April 10, 2020.
3. Project fuel consumption calculated based on CalEEMod results. Countywide fuel consumption is from the California Air Resources Board EMFAC2017 model. The Operational Automotive Fuel Consumption is based on the Warehouse and Manufacturing Option as it would generate the most trips per day and vehicle miles traveled (VMT) when compared to the Warehouse Only Option.

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for assumptions used in this analysis.

Page 4.6-3, Impact Statement 4.6 (a), Last Paragraph

Reductions in energy inputs for construction materials can be achieved by selecting green building materials composed of recycled materials that require less energy to produce than non-recycled materials.[2] The integration of green building materials can help reduce environmental impacts associated with the extraction, transport, processing, fabrication, installation, reuse, recycling, and disposal of these building industry source materials.[3] The project-related incremental increase in the use of energy bound in construction materials such as asphalt, steel, concrete, pipes and manufactured or processed materials (e.g., lumber and gas) would not substantially increase demand for energy compared to overall local and regional demand for construction materials. As indicated in Table 4.6-1, the project's fuel consumption from construction would be approximately ~~45,291~~ 61,711 gallons, which would increase fuel use in the County by ~~0.0085~~ 0.0116 percent. As such, construction would have a nominal effect on the local and regional energy supplies. It is noted that construction fuel use is temporary and would cease upon completion of construction activities. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in the region or State. Therefore, construction fuel consumption would not be any more inefficient, wasteful, or unnecessary than other similar development projects of this nature. As such, a less than significant impact would occur in this regard.

These changes provide a minor update, correction, or clarification and do not represent "significant new information" as defined in CEQA Guidelines Section 15088.5 and would not result in any new or substantially greater significant impacts as compared to those identified in the Draft IS/MND.

6-14 Refer to Response to Comment 6-6.

6-15 The commenter is correct in stating that CalEEMod was used to model the project's potential energy impacts. However, there is no requirement under CEQA that a project's energy modeling must be completed with CBECC-Com and EnergyPro. Thus, the City of Carson affirms that the CalEEMod adequately discloses the project's potentially significant energy impacts. The commenters statement that the modeling provided in the Draft IS/MND does not comply with the

2 California Department of Resources Recycling and Recovery, Green Building Materials, https://www.calrecycle.ca.gov/greenbuilding/materials#Material, accessed April 15, 2020.
3 Ibid.

2019 Building Energy Efficiency Standards and under reports the project's potentially significant GHG impacts is incorrect. As noted in Draft IS/MND Table 4.8-3, *Project Consistency with the 2017 Scoping Plan*, as well as Draft IS/MND Section 4.6, *Energy*, the project would be subject to mandatory compliance with the 2019 (or most recent) Title 24 Building Energy Efficiency Standards, which provide minimum efficiency standards related to various building features, including appliances, water and space heating and cooling equipment, building insulation and roofing, and lighting. As indicated in Draft IS/MND Table 4.8-3, the project must demonstrate that it meets the applicable requirements of the 2019 Title 24 Standards prior to approval of the building permits. Implementation of the Title 24 standards significantly reduces energy usage. Furthermore, as indicated in Draft IS/MND Section 4.6, the project's operational energy consumption would represent an approximate 0.0045 percent increase in electricity consumption over the current Countywide usage. Therefore, the project would not result in the inefficient, wasteful, or unnecessary consumption of building energy, and preparation of a project EIR is not necessary nor required.

6-16 The commenter states that compliance with the *City of Carson 2015 Energy Efficiency Climate Action Plan* (EECAP) does not comply with California Energy Commission (CEC) Standards, Assembly Bill 32 (AB 32), or Senate Bill 32 (SB 32), since the City is not listed as a jurisdiction with local energy standards approved by the CEC. Draft IS/MND Table 4.6-2, *Community-Oriented EECPAP Strategies*, determined that the project would comply with all applicable goals and measures identified within the EECAP. The project does not have jurisdiction or control over the City's EECAP or approval with the CEC. In addition, the project would be subject to mandatory compliance with the 2019 (or most recent) Title 24 Building Energy Efficiency Standards, which provide minimum efficiency standards related to various building features, including appliances, water and space heating and cooling equipment, building insulation and roofing, and lighting. As indicated in Draft IS/MND Table 4.8-3, the project must demonstrate that it meets the applicable requirements of the 2019 Title 24 Standards prior to approval of the building permits. Implementation of the Title 24 standards significantly reduces energy usage. Last, as shown in the Draft IS/MND Section 4.8, *Greenhouse Gas Emissions*, the project would be consistent with the CARB 2017 Climate Scoping Plan, which incorporates and is consistent with the goals from the CEC, as well as AB 32 and SB 32.

6-17 Refer to Response to Comment 4-3 and 6-5. As requested by the commenter, the project's CalEEMod model runs have been revised to include the anticipated 27,400 cubic yards of soil import during construction. Draft IS/MND Table 4.8-1, *Estimated Greenhouse Gas Emissions (Warehouse Only Option), and Table 4.8-2, Estimated Greenhouse Gas Emissions (Warehouse and Manufacturing Option),* have been revised to reflect the construction emissions that would occur with inclusion of this soil import. As shown in the analysis and in the CalEEmod model runs, construction emissions would remain less than significant. This clarification has been made to page 4.8-5 and page 4.8-6 of the Draft IS/MND and is reflected below and in Section 3.0, *Errata*, of the Final IS/MND.

Page 4.8-5, Impact Statement 4.8 (a), Tables 4.8-1 and 4.8-2

Table 4.8-1
Estimated Greenhouse Gas Emissions (Warehouse Only Option)

Source	CO_2	CH_4		N_2O		Total Metric Tons of CO_2e[2,3]
	Metric Tons/yr[1]	Metric Tons/yr[1]	Metric Tons of CO_2e[1]	Metric Tons/yr[1]	Metric Tons of CO_2e[1]	
Direct Emissions						
Construction (amortized over 30 years)	~~26.46~~ 30.81	<0.01	~~0.13~~ 0.14	0.00	0.00	~~26.59~~ ~~30.95~~
Area Source	0.02	<0.01	<0.01	0.00	0.00	0.02
Mobile Source	686.78	0.05	1.21	0.00	0.00	687.99
Indirect Emissions	**~~709.47~~ 717.61**	**0.05**	**~~1.31~~ 1.35**	**0.00**	**0.00**	**~~710.78~~ 718.96**
Energy	918.55	0.04	1.10	0.01	3.61	923.26
Water Demand	181.06	1.77	44.31	0.04	12.96	238.33
Solid Waste	18.40	1.09	27.19	0.00	0.00	45.59
Total Project-Related Emissions[2]	***~~1,921.78~~ 1,926.14 MTCO$_2$e/yr***					
SCAQMD GHG Threshold	***10,000 MTCO$_2$e/yr***					
Project Exceed SCAQMD GHG Threshold?	***No***					

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxides, MTCO$_2$e/yr = metric tons of carbon dioxide equivalent per year
1. Emissions were calculated using CalEEMod version 2016.3.2 and EMFAC2017, as recommended by the SCAQMD and CARB.
2. Totals may be slightly off due to rounding.
3. Carbon dioxide equivalent values calculated using the U.S. Environmental Protection Agency, *Greenhouse Gas Equivalencies Calculator*, http://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator, accessed April 9, 2020.

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for detailed model input/output data.

Table 4.8-2
Estimated Greenhouse Gas Emissions (Warehouse and Manufacturing Option)

Source	CO_2	CH_4		N_2O		Total Metric Tons of CO_2e[2,3]
	Metric Tons/yr[1]	Metric Tons/yr[1]	Metric Tons of CO_2e[1]	Metric Tons/yr[1]	Metric Tons of CO_2e[1]	
Direct Emissions						
Construction (amortized over 30 years)	~~26.46~~ 30.81	<0.01	~~0.13~~ 0.14	0.00	0.00	~~26.59~~ 30.95
Area Source	0.02	<0.01	<0.01	0.00	0.00	0.02
Mobile Source	802.24	0.06	1.50	0.00	0.00	803.74
Indirect Emissions	**~~828.72~~ 833.07**	**0.06**	**~~1.63~~ 1.64**	**0.00**	**0.00**	**~~830.35~~ 834.71**
Energy	918.55	0.04	1.10	0.01	3.61	923.26
Water Demand	181.06	1.77	44.31	0.04	12.96	238.33
Solid Waste	18.40	1.09	27.19	0.00	0.00	45.59
Total Project-Related Emissions[2]	***~~2,037.53~~ 2,041.89 MTCO2e/yr***					
SCAQMD GHG Threshold	***10,000 MTCO2e/yr***					
Project Exceed SCAQMD GHG Threshold?	***No***					

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxides, MTCO2e/yr = metric tons of carbon dioxide equivalent per year
1. Emissions were calculated using CalEEMod version 2016.3.2, as recommended by the SCAQMD.
2. Totals may be slightly off due to rounding.
3. Carbon dioxide equivalent values calculated using the United States Environmental Protection Agency, *Greenhouse Gas Equivalencies Calculator*, http://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator, accessed April 9, 2020.

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for detailed model input/output data.

Page 4.8-6, Impact Statement 4.8 (a), Direct Project-Related Sources of Greenhouse Gases, First Paragraph

> Construction Emissions. Construction GHG emissions are typically summed and amortized over the lifetime of the project (assumed to be 30 years), then added to the operational emissions.[4] As seen in Table 4.8-1 and Table 4.8-2, the proposed Warehouse Only Option and Warehouse and Manufacturing Option would result in ~~26.59~~ 30.95 $MTCO_2e$ when amortized over 30 years.

Page 4.8-6, Impact Statement 4.8 (a), Conclusion

> As shown in Table 4.8-1, the Warehouse Only Option GHG emissions from direct and indirect sources combined would total ~~1,921.78~~ 1,926.14 $MTCO_2e$/yr. As shown in Table 4.8-2, the Warehouse and Manufacturing Option GHG emissions from direct and indirect sources combine would total ~~2,037.53~~ 2,041.89 $MTCO_2e$/yr. Thus, both the Warehouse Only Option and Warehouse and Manufacturing Option would be below the SCAQMD GHG threshold of 10,000 $MTCO_2e$/yr. Impacts in this regard would be less than significant.

These changes provide a minor update, correction, or clarification and do not represent "significant new information" as defined in CEQA Guidelines Section 15088.5 and would not result in any new or substantially greater significant impacts as compared to those identified in the Draft IS/MND.

6-18 The commenter states that Draft IS/MND Table 4.11-1, *Project Consistency with Applicable General Plan Land Use Element Policies*, is "misleading to the public and decisionmakers." Draft IS/MND Table 4.11-1 discloses that a Zone Change would be required to modify the site's zoning from Manufacturing, Heavy with a Design Overlay (MH-D) to Manufacturing, Light with a Design Overlay (ML-D). However, the proposed zoning would be consistent with the vacant property to the east of the project site that is also zoned ML-D. Thus, the City of Carson affirms that the project is consistent with General Plan Policy LU-7.1.

6-19 The commenter states that the project must be analyzed in accordance with its existing General Plan designation and zoning. If the proposed project is approved, development of the project site would occur in accordance with the LI designation and ML-D zone. As a result, Draft IS/MND Section 4.11, *Land Use and Planning*, analyzes the project's consistency with applicable policies and requirements from the project's proposed land use designation and zoning. The City affirms that the proposed General Plan Amendment and Zone Change are commonly undertaken on a regular basis by many jurisdictions and do not necessarily warrant the preparation of a project EIR.

4 The project lifetime is based on the standard 30-year assumption of the South Coast Air Quality Management District (South Coast Air Quality Management District, *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold*, October 2008).

Refer to Response to Comment 6-9 regarding the project's consistency with General Plan Goal AQ-5 and the City's policy to discourage PM_{10} producers and other polluting industries from locating in the City.

6-20 The commenter states that Mitigation Measure NOI-1 is unenforceable as there is "no enforcement entity, field verification, or lead agency oversight component to observe or follow up on implementation of the paving control plan." Final IS/MND Section 4.0, *Mitigation Monitoring and Reporting Program*, includes a Mitigation Monitoring and Reporting Program (MMRP) which delineates responsibilities for the implementation (Project Applicant or Construction Contractor), timing (Prior to Issuance of Grading Permit; During Construction Activities), monitoring responsibility (City of Carson Engineer), and field verification of Mitigation Measure NOI-1. As noted in Section 4.0, monitoring will include: 1) verification that each mitigation measure has been implemented; 2) recordation of the actions taken to implement each mitigation; and 3) retention of records in the City of Carson Panattoni Project file. No changes to Mitigation Measure NOI-1 are necessary nor required in this regard.

6-21 Refer to Response to Comment 3-6. As noted in Draft IS/MND Section 4.14, although the project would result in direct population growth (through new employees), the proposed project would not induce substantial unplanned population growth exceeding existing local conditions (0.48 percent increase over the City's 2019 population) and/or regional populations projections (0.42 percent of the total projected 2040 population of the City). As a result, the project would result in less than significant impacts to unplanned population growth and preparation of a project EIR is not necessary nor required in this regard.

6-22 The commenter expresses concerns that the Draft IS/MND does not include "official threshold documentation" related to the California Department of Transportation's (Caltrans) screening criteria for freeway mainline and/or off-ramp queuing analysis. An analysis of the project's impacts at State highway facilities is provided in the Draft IS/MND Appendix F, *Traffic Impact Analysis*, Section 8, *State Highway Analysis*. As noted on page 55 of the Traffic Impact Analysis and Draft IS/MND page 4.17-5, Caltrans endeavors to maintain a target LOS at the transition between LOS C and LOS D on State highway facilities. While Caltrans has not established traffic thresholds of significance, the Traffic Impact Analysis utilizes the following performance standard based on discussions with Caltrans staff: A significant project impact occurs at a State highway signalized study intersection when the addition of project-generated trips causes the peak hour LOS of the study intersection to change from acceptable operation (LOS A, B, C, or D) to deficient operation (LOS E or F). Draft IS/MND Table 4.17-9, *State Highway Intersection Levels of Service*, shows the intersection Levels of Service at the State highway study intersections using the delay methodology. As shown in Draft IS/MND Table 4.17-9, the State highway study intersections are forecast to operate at LOS C or better during the peak hour conditions. Detailed intersection delay/Level of Service calculation worksheets for the State highway study intersections are provided in Appendix F of the Traffic Impact Analysis.

Concerning the project's off-ramp queuing analysis, a project impact is considered significant if the addition of project-generated trips is forecast to cause the performance of a State Highway study intersection to change from acceptable operation (Level of Service D or better) to deficient operation (Level of Service E or F); refer to page 55 of the Traffic Impact Analysis. For freeway

off-ramps, a project impact is considered significant if the addition of project-generated trips is forecast to cause or worsen a condition where the queue length exceeds 85 percent of off-ramp storage capacity. Based on the State highway study intersection analysis, the freeway ramp terminus intersections are operating at Level of Service C or better. Therefore, the project would typically not be required to perform off-ramp queueing analysis, however, off-ramp queueing analysis has been performed for the two off-ramps expected to be most utilized by the project. Draft IS/MND Table 4.17-10, *Freeway Off-Ramp Queuing Analysis*, summarizes the results of a queueing analysis for the I-405 freeway off-ramps at Wilmington Avenue and Alameda. As shown in Draft IS/MND Table 4.17-10, adequate off-ramp storage capacity is forecast to be provided at the study off-ramps with the addition of project-generated trips; therefore, the project impact is considered less than significant. Preparation of a project EIR is not necessary nor required in this regard.

6-23 As requested, the City will add the commenter to the public interest list for the proposed project. This comment serves as the conclusion to the comment letter. As detailed in these response to comments, the information, clarifications, and modifications presented in this Final IS/MND have not resulted in any new or substantially greater significant impacts as compared to those identified in the Draft IS/MND and, thus, the preparation of a project EIR is not necessary nor required.

3.0 ERRATA

Changes to the Draft Initial Study/Mitigated Negative Declaration (IS/MND) are noted below. A double-underline indicates additions to the text; ~~strikethrough~~ indicates deletions to the text. Changes have been analyzed and responded to in Section 2.0, *Response to Comments*, of this Final IS/MND. The changes to the Draft IS/MND do not affect the overall conclusions of the environmental document. Changes are listed by page and, where appropriate, by paragraph.

These errata address the technical comments on the Draft IS/MND, which circulated from June 18, 2020 through July 17, 2020. These clarifications and modifications are not considered to result in any new or substantially greater significant impacts as compared to those identified in the Draft IS/MND. All mitigation measure modifications, if any, have been reflected in Section 4.0, *Mitigation Monitoring and Reporting Program*, of this Final IS/MND.

The Errata noted below for Section 2.0, *Project Description*, of the Draft IS/MND are global Errata and apply to the entirety of the Draft IS/MND. These clarifications or modifications are based upon applicable updated information that was not available at the time of the Draft IS/MND publication. These Errata are not considered significant new information and would not result in new or substantially greater significant impacts as compared to those identified in the Draft IS/MND.

SECTION 2.0, PROJECT DESCRIPTION

Page 2.0-13, Section 2.6, Agreements, Permits, and Approvals

The proposed project would require agreements, permits, and approvals from the City and other agencies prior to construction. The project requires agreements, permits, and approvals, such as grading permit building and safety permit, certificate of occupancy, and street improvement permit. The following describes City discretionary actions, as well as agreements, permits, and approvals from other regional and State agencies. It is acknowledged that these agreements, permits, and approvals may change as the project entitlement process proceeds.

City of Carson – Lead Agency

- California Environmental Quality Act Approval;
- General Plan Amendment;
- Zone Change; and
- Site Plan and Design Review.

Los Angeles Regional Water Quality Control Board – Responsible Agency

- National Pollutant Discharge Elimination System (NPDES) Permit.

Department of Toxic Substances Control – Responsible Agency

- Groundwater Monitoring Well Relocation.

California Water Service Company Rancho Dominguez District

- Water Connection Permit.

Sanitation Districts of Los Angeles County

- Sewer Plan review and approval ~~Sewer Connection Permit~~.

SECTION 4.3, AIR QUALITY

Page 4.3-6, Table 4.3-1, Construction Emissions

Table 4.3-1
Construction Emissions

Emissions Source	Pollutant (pounds/day)[1,2]					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Construction Emissions[2,3,4]						
Year 1	3.39	33.26	22.36	0.04	1.83	1.59
Year 2	64.58	~~68.68~~ 89.81	~~52.87~~ 58.06	~~0.11~~ 0.17	~~8.73~~ 10.18	~~4.87~~ 5.31
SCAQMD Thresholds	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	***No***	***No***	***No***	***No***	***No***	***No***

Notes: ROG = reactive organic gases; NO_X = nitrous oxides; CO = carbon monoxide; SO_2 = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter

1. Emissions were calculated using CalEEMod version 2016.3.2 and EMFAC 2017, as recommended by the SCAQMD and CARB.
2. The reduction/credits for construction emissions are based on "mitigation" included in CalEEMod and are required by the SCAQMD Rules. The "mitigation" applied in CalEEMod includes the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; cover stock piles with tarps; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. The emissions results in this table represent the "mitigated" emissions shown in Appendix A.
3. The planned construction buildout, timing, and emissions would be the same for the Warehouse and Manufacturing Option and Warehouse Only Option.
4. The project's 13-month construction schedule would occur over two calendar years.

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for assumptions used in this analysis.

Page 4.3-12, Table 4.3-4, Localized Significance of Emissions

Table 4.3-4
Localized Significance of Emissions

Source	Pollutant (pounds/day)[3]			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Construction (Grading/Excavation Phase)				
On-Site Emissions[1]	46.14	~~29.54~~ 29.87	~~10.67~~ 10.74	~~5.43~~ 5.44
On-Site Emissions with SCAQMD Rules Applied[1,2]	46.14	29.87	~~5.89~~ 5.93	~~3.45~~ 3.46
Localized Significance Threshold[2]	82	842	7	5
Thresholds Exceeded?	***No***	***No***	***No***	***No***

Notes:

1. The grading/excavation phase emissions are presented as the worst-case scenario for NOx, CO, PM_{10}, and $PM_{2.5}$.
2. The reduction/credits for construction emissions applied in CalEEMod are based on the application of dust control techniques as required by SCAQMD Rule 403. The dust control techniques include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces twice daily; cover stockpiles with tarps; water all haul roads three times daily; and limit speeds on unpaved roads to 15 miles per hour.
3. The Localized Significance Threshold was determined using Appendix C of the SCAQMD Final Localized Significant Threshold Methodology guidance document for pollutants NO_X, CO, PM_{10}, and $PM_{2.5}$. The Localized Significance Threshold was based on the anticipated daily acreage disturbance for construction (2.5 acre; therefore the 2-acre threshold was used) and the source receptor area (SRA 4).

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for assumptions used in this analysis.

SECTION 4.6, ENERGY

Page 4.6-2, Impact Statement 4.6 (a), Last Paragraph

The project's estimated energy consumption is summarized in Table 4.6-1, *Project and Countywide Energy Consumption*. As shown in Table 4.6-1, the project's electricity usage would constitute an approximate 0.0045 percent increase over Los Angeles County's typical annual electricity and an approximate 0.0080 percent increase over Los Angeles County's typical annual natural gas consumption. The project's construction and operational vehicle fuel consumption would increase Los Angeles County's consumption by ~~0.0085~~ 0.0116 percent and 0.0030 percent, respectively.

Table 4.6-1
Project and Countywide Energy Consumption

Energy Type	Project Annual Energy Consumption[1]	Los Angeles County Annual Energy Consumption[2]	Percentage Increase Countywide[2]
Electricity Consumption	3,063 MWh	68,486,000 MWh	0.0045%
Natural Gas Consumption	234,656 therms	2,921,000,000 therms	0.0080%
Fuel Consumption			
• Construction Fuel Consumption[3]	~~45,291~~ 61,711 gallons	533,800,838 gallons	~~0.0085~~ 0.0116%
• Operational Automotive Fuel Consumption[3]	118,777 gallons	3,975,480,911 gallons	0.0030%

Notes:

1. As modeled in CalEEMod version 2016.3.2.
2. The project increases in electricity and natural gas consumption are compared to the total consumption in Los Angeles County in 2018. The project increases in automotive fuel consumption are compared with the projected Countywide fuel consumption in 2020.

   Los Angeles County electricity consumption data source: California Energy Commission, *Electricity Consumption by County*, http://www.ecdms.energy.ca.gov/elecbycounty.aspx, accessed April 10, 2020.

   Los Angeles County natural gas consumption data source: California Energy Commission, *Gas Consumption by County*, http://www.ecdms.energy. ca.gov/gasbycounty.aspx, accessed April 10, 2020.
3. Project fuel consumption calculated based on CalEEMod results. Countywide fuel consumption is from the California Air Resources Board EMFAC2017 model. The Operational Automotive Fuel Consumption is based on the Warehouse and Manufacturing Option as it would generate the most trips per day and vehicle miles traveled (VMT) when compared to the Warehouse Only Option.

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for assumptions used in this analysis.

Page 4.6-3, Impact Statement 4.6 (a), Last Paragraph

Reductions in energy inputs for construction materials can be achieved by selecting green building materials composed of recycled materials that require less energy to produce than non-recycled materials.[1] The integration of green building materials can help reduce environmental impacts associated with the extraction, transport, processing, fabrication, installation, reuse, recycling, and disposal of these building industry source materials.[2] The project-related incremental increase in the use of energy bound in construction materials such as asphalt, steel, concrete, pipes and manufactured or processed materials (e.g., lumber and gas) would not substantially increase demand for energy compared to overall local and regional demand for construction materials. As indicated in Table 4.6-1, the project's fuel consumption from construction would be approximately 4~~5,291~~ 61,711 gallons, which would increase fuel use in the County by ~~0.0085~~ 0.0116 percent. As such, construction would have a nominal effect on the local and regional energy supplies. It is noted that construction fuel use is temporary and would cease upon completion of construction activities. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in the region or State. Therefore, construction fuel consumption would not be any more inefficient, wasteful, or unnecessary than other similar development projects of this nature. As such, a less than significant impact would occur in this regard.

SECTION 4.8, GREENHOUSE GAS EMISSIONS

Page 4.8-5, Impact Statement 4.8 (a), Tables 4.8-1 and 4.8-2

1 California Department of Resources Recycling and Recovery, Green Building Materials, https://www.calrecycle.ca.gov/greenbuilding/materials#Material, accessed April 15, 2020.
2 Ibid.

Table 4.8-1
Estimated Greenhouse Gas Emissions (Warehouse Only Option)

Source	CO_2	CH_4		N_2O		Total Metric Tons of CO_2e[2,3]
	Metric Tons/yr[1]	Metric Tons/yr[1]	Metric Tons of CO_2e[1]	Metric Tons/yr[1]	Metric Tons of CO_2e[1]	
Direct Emissions						
Construction (amortized over 30 years)	~~26.46~~ 30.81	<0.01	~~0.13~~ 0.14	0.00	0.00	~~26.59~~ 30.95
Area Source	0.02	<0.01	<0.01	0.00	0.00	0.02
Mobile Source	686.78	0.05	1.21	0.00	0.00	687.99
Indirect Emissions	**~~709.47~~ 717.61**	**0.05**	**~~1.31~~ 1.35**	**0.00**	**0.00**	**~~710.78~~ 718.96**
Energy	918.55	0.04	1.10	0.01	3.61	923.26
Water Demand	181.06	1.77	44.31	0.04	12.96	238.33
Solid Waste	18.40	1.09	27.19	0.00	0.00	45.59
Total Project-Related Emissions[2]	***~~1,921.78~~ 1,926.14 MTCO$_2$e/yr***					
SCAQMD GHG Threshold	***10,000 MTCO$_2$e/yr***					
Project Exceed SCAQMD GHG Threshold?	***No***					

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxides, MTCO$_2$e/yr = metric tons of carbon dioxide equivalent per year
1. Emissions were calculated using CalEEMod version 2016.3.2 and EMFAC2017, as recommended by the SCAQMD and CARB.
2. Totals may be slightly off due to rounding.
3. Carbon dioxide equivalent values calculated using the U.S. Environmental Protection Agency, *Greenhouse Gas Equivalencies Calculator*, http://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator, accessed April 9, 2020.

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for detailed model input/output data.

Table 4.8-2
Estimated Greenhouse Gas Emissions (Warehouse and Manufacturing Option)

Source	CO_2	CH_4		N_2O		Total Metric Tons of CO_2e[2,3]
	Metric Tons/yr[1]	Metric Tons/yr[1]	Metric Tons of CO_2e[1]	Metric Tons/yr[1]	Metric Tons of CO_2e[1]	
Direct Emissions						
Construction (amortized over 30 years)	~~26.46~~ 30.81	<0.01	~~0.13~~ 0.14	0.00	0.00	~~26.59~~ 30.95
Area Source	0.02	<0.01	<0.01	0.00	0.00	0.02
Mobile Source	802.24	0.06	1.50	0.00	0.00	803.74
Indirect Emissions	**~~828.72~~ 833.07**	**0.06**	**~~1.63~~ 1.64**	**0.00**	**0.00**	**~~830.35~~ 834.71**
Energy	918.55	0.04	1.10	0.01	3.61	923.26
Water Demand	181.06	1.77	44.31	0.04	12.96	238.33
Solid Waste	18.40	1.09	27.19	0.00	0.00	45.59
Total Project-Related Emissions[2]	***~~2,037.53~~ 2,041.89 MTCO2e/yr***					
SCAQMD GHG Threshold	***10,000 MTCO2e/yr***					
Project Exceed SCAQMD GHG Threshold?	***No***					

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxides, MTCO2e/yr = metric tons of carbon dioxide equivalent per year
1. Emissions were calculated using CalEEMod version 2016.3.2, as recommended by the SCAQMD.
2. Totals may be slightly off due to rounding.
3. Carbon dioxide equivalent values calculated using the United States Environmental Protection Agency, *Greenhouse Gas Equivalencies Calculator*, http://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator, accessed April 9, 2020.

Refer to Appendix A, *Air Quality/Greenhouse Gas/Energy Data*, for detailed model input/output data.

Page 4.8-6, Impact Statement 4.8 (a), Direct Project-Related Sources of Greenhouse Gases, First Paragraph

Construction Emissions. Construction GHG emissions are typically summed and amortized over the lifetime of the project (assumed to be 30 years), then added to the operational emissions.[3] As seen in Table 4.8-1 and Table 4.8-2, the proposed Warehouse Only Option and Warehouse and Manufacturing Option would result in ~~26.59~~ 30.95 $MTCO_2e$ when amortized over 30 years.

Page 4.8-6, Impact Statement 4.8 (a), Conclusion

As shown in Table 4.8-1, the Warehouse Only Option GHG emissions from direct and indirect sources combined would total ~~1,921.78~~ 1,926.14 $MTCO_2e$/yr. As shown in Table 4.8-2, the Warehouse and Manufacturing Option GHG emissions from direct and indirect sources combine would total ~~2,037.53~~ 2,041.89 $MTCO_2e$/yr. Thus, both the Warehouse Only Option and Warehouse and Manufacturing Option would be below the SCAQMD GHG threshold of 10,000 $MTCO_2e$/yr. Impacts in this regard would be less than significant.

SECTION 4.17, TRANSPORTATION

Page 4.17-19, Mitigation Measure TRA-1

TRA-1 Prior to the project operations, the project Applicant shall enter into an Operational Labor Agreement with the City of Carson to implement a local hiring program consisting of reasonable efforts such as local job fairs to reduce employee vehicle miles travelled (VMT) to the City's threshold of 16.7 VMT per Employee or less. The Operational Labor Agreement shall specify that the Property Owner, or designee, provides to the City Traffic Engineer on an annual basis an Employee VMT Monitoring Table, or other VMT monitoring system, as approved by the City Traffic Engineer, that identifies commute distance bins and the proportion of employees within each bin to determine the project's average home-based work VMT per employee. A sample Employee VMT Monitoring Table is included as Attachment B of the *Panattoni Warehouse Project: Vehicle Miles Traveled Analysis*, prepared by Fehr and Peers, dated May 19, 2020. The Employee VMT Monitoring Table, or other approved VMT monitoring system, shall be approved by the City of Carson Traffic Engineer prior to project operations.

If, through preparation of the Employee Monitoring Table, or other approved VMT monitoring system, it is determined that the project would still exceed the City's threshold of 16.7 VMT per Employee, the project Applicant shall be responsible for identifying and implementing travel demand measures to demonstrate the project's VMT per employee are reduced to less than significant levels. These measures may include, but are not limited to, identifying and paying for off-street parking, providing transit passes to employees, providing commuter incentives, providing transit subsidies, providing parking cash-outs, commute marketing program, or implementing carpool/vanpool incentives. The project Applicant shall be responsible for demonstrating the effectiveness of these measures through the VMT monitoring system to reduce the project's VMT per employee to the City's threshold of 16.7, as verified by the City Traffic Engineer.
Should the City of Carson adopt a VMT threshold, the project Applicant or future Property Owner has the option to submit an updated VMT analysis to the City Engineer for review and approval. Should the VMT analysis show that the project is less than significant per the City's adopted VMT threshold, this mitigation measure shall no longer apply. Should an updated VMT analysis determine that the project has the

[3] The project lifetime is based on the standard 30-year assumption of the South Coast Air Quality Management District (South Coast Air Quality Management District, *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold*, October 2008).

potential to impact State transportation facilities, the Applicant shall submit the TMP for review and comment by Caltrans, prior to approval by the City Engineer.

Page 4.17-21, Mitigation Measure TRA-2

TRA-2 Prior to the initiation of construction, the project Applicant shall prepare a Traffic Management Plan (TMP) for approval by the City of Carson Traffic Engineer. Should a Caltrans transportation permit be required for the project, the Applicant shall submit the TMP for review and comment by Caltrans, prior to approval by the City of Carson Traffic Engineer. The TMP shall include measures such as construction signage, limitations on timing for lane closures to avoid peak hours, temporary striping plans, and the need for a construction flagperson to direct traffic during heavy equipment use. The TMP shall specify that one direction of travel in each direction must always be maintained for East 223rd Street throughout project construction. The TMP shall be incorporated into project specifications for verification prior to final plan approval.

Appendix A, Air Quality/Greenhouse Gas/Energy Data

APPENDIX A
Air Quality/Greenhouse Gas/ Energy Data

Panattoni Warehouse (only) Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	292.40	1000sqft	6.71	292,400.00	0
Other Asphalt Surfaces	4.09	Acre	4.09	178,160.40	0
Parking Lot	389.00	Space	3.50	155,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2018 Sustainability report pg10 https://www.edison.com/content/dam/eix/documents/sustainability/eix-2018-sustainability-report.pdf

Land Use - 14.2 acre site

Construction Phase - Anticipated Construction Schedule

Grading - Per Conceptual Grading Plan.

Vehicle Trips - Per the ITE Trip Gen Manual 10th Edition, 2017.

VMT from the Panattoni Warehouse project VMT Draft Memorandum. Project would have 4,906 daily VMT. CalEEmod assumes 364 days a year so project total is approximately 1,786,276

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 requirements.

Water Mitigation - 2019 Title 24 and CalGreen Code Requirements.

Waste Mitigation - AB 341 requirements

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstructionPhase	NumDays	300.00	215.00
tblConstructionPhase	NumDays	20.00	64.00
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tblConstructionPhase	NumDays	20.00	40.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
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tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	269.66	266.39
tblVehicleEF	LDA	57.08	53.43
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003
tblVehicleEF	LDA	2.0000e-003	1.6540e-003
tblVehicleEF	LDA	2.0830e-003	1.6910e-003

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.7010e-003	2.6350e-003
tblVehicleEF	LDA	5.9100e-004	5.2900e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.02	7.7890e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.68	1.46
tblVehicleEF	LDT1	2.78	2.27
tblVehicleEF	LDT1	341.15	318.65
tblVehicleEF	LDT1	69.44	63.32
tblVehicleEF	LDT1	0.16	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13

tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	3.4330e-003	3.1530e-003
tblVehicleEF	LDT1	7.4300e-004	6.2700e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.2630e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.59
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	331.08
tblVehicleEF	LDT1	69.44	62.64
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21

tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.5840e-003	3.2760e-003
tblVehicleEF	LDT1	7.3600e-004	6.2000e-004
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.02	7.6410e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	314.09
tblVehicleEF	LDT1	69.44	63.47
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.20	0.37
tblVehicleEF	LDT1	3.3780e-003	3.1080e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9910e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	341.38
tblVehicleEF	LDT2	78.07	68.34
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3770e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.3200e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	353.53
tblVehicleEF	LDT2	78.07	67.60
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38

tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	3.9980e-003	3.4980e-003
tblVehicleEF	LDT2	8.0000e-004	6.6900e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8890e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
tblVehicleEF	LDT2	1.39	2.74
tblVehicleEF	LDT2	375.62	336.92
tblVehicleEF	LDT2	78.07	68.50
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.29
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32

tblVehicleEF	LDT2	3.7630e-003	3.3330e-003
tblVehicleEF	LDT2	8.0400e-004	6.7800e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.5830e-003
tblVehicleEF	LHD1	0.01	5.7240e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.21
tblVehicleEF	LHD1	33.34	12.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.65
tblVehicleEF	LHD1	1.01	0.33
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003

tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8500e-004	1.2300e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.5950e-003
tblVehicleEF	LHD1	0.01	5.8420e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.67
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.23
tblVehicleEF	LHD1	33.34	12.33

tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5070e-003
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tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.54

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.5970e-003	5.5810e-003
tblVehicleEF	LHD1	0.01	5.6940e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.65
tblVehicleEF	LHD1	2.81	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.20
tblVehicleEF	LHD1	33.34	12.44
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.94	0.64
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8600e-004	1.2300e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9120e-003
tblVehicleEF	LHD2	4.2980e-003	3.9650e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.76
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.56
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.65	0.84
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004

tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9200e-003
tblVehicleEF	LHD2	4.3570e-003	4.0120e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.73

tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.36
tblVehicleEF	LHD2	27.88	9.50
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.61	0.79
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0300e-004	9.4000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9100e-003
tblVehicleEF	LHD2	4.2820e-003	3.9540e-003
tblVehicleEF	LHD2	8.5780e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.38	0.77
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.57
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.64	0.82
tblVehicleEF	LHD2	0.56	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.94	19.19
tblVehicleEF	MCY	9.66	8.53
tblVehicleEF	MCY	188.92	223.45
tblVehicleEF	MCY	44.52	59.65
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.06	1.09

tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.05	1.82
tblVehicleEF	MCY	2.2780e-003	2.2110e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.47
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.09
tblVehicleEF	MCY	44.52	57.74
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73

tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.1980e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.29
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.65
tblVehicleEF	MCY	44.52	59.99
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64

tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2130e-003
tblVehicleEF	MCY	6.6700e-004	5.9400e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.11
tblVehicleEF	MDV	512.22	419.24
tblVehicleEF	MDV	103.14	83.18
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03

tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1450e-003
tblVehicleEF	MDV	1.0750e-003	8.2300e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9930e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.33
tblVehicleEF	MDV	2.12	2.64
tblVehicleEF	MDV	534.67	432.09
tblVehicleEF	MDV	103.14	82.28
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40

tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	5.3570e-003	4.2720e-003
tblVehicleEF	MDV	1.0680e-003	8.1400e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4430e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	414.54
tblVehicleEF	MDV	103.14	83.37
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41

tblVehicleEF	MDV	5.0480e-003	4.0980e-003
tblVehicleEF	MDV	1.0760e-003	8.2500e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.21
tblVehicleEF	MH	5.78	2.15
tblVehicleEF	MH	1,130.03	1,501.21
tblVehicleEF	MH	60.43	19.42
tblVehicleEF	MH	1.08	1.11
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.46

tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0500e-004	1.9200e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.30	1.24
tblVehicleEF	MH	5.44	2.03
tblVehicleEF	MH	1,130.03	1,501.27
tblVehicleEF	MH	60.43	19.21
tblVehicleEF	MH	0.99	1.03
tblVehicleEF	MH	0.76	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.09	0.06

tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9900e-004	1.9000e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.22	1.20
tblVehicleEF	MH	5.83	2.18
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tblVehicleEF	MH	60.43	19.45
tblVehicleEF	MH	1.06	1.09
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36

tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0600e-004	1.9300e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MHD	0.02	4.3860e-003
tblVehicleEF	MHD	4.8560e-003	4.5970e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
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tblVehicleEF	MHD	132.92	67.37
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tblVehicleEF	MHD	1.14	1.63
tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0770e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.3800e-004	1.0300e-003

tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.1900e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1570e-003
tblVehicleEF	MHD	4.9280e-003	4.6490e-003
tblVehicleEF	MHD	0.05	0.01
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tblVehicleEF	MHD	1,150.98	1,069.66

tblVehicleEF	MHD	63.58	11.93
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.29
tblVehicleEF	MHD	2.0900e-004	9.1000e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.0000e-004	8.7100e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1800e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07

tblVehicleEF	MHD	0.02	4.7150e-003
tblVehicleEF	MHD	4.8360e-003	4.5810e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.52	0.49
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.20	1.44
tblVehicleEF	MHD	122.05	66.24
tblVehicleEF	MHD	1,150.98	1,069.64
tblVehicleEF	MHD	63.58	12.07
tblVehicleEF	MHD	0.47	0.48
tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3060e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.8900e-004	1.2500e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	7.4400e-004	1.1900e-004
tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	OBUS	0.01	8.4810e-003
tblVehicleEF	OBUS	7.7220e-003	7.0170e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.79
tblVehicleEF	OBUS	5.41	2.39
tblVehicleEF	OBUS	112.13	94.60
tblVehicleEF	OBUS	1,260.49	1,392.48
tblVehicleEF	OBUS	67.92	19.23
tblVehicleEF	OBUS	0.51	0.46
tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.76
tblVehicleEF	OBUS	1.1400e-004	7.9300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5900e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	9.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5410e-003
tblVehicleEF	OBUS	7.8490e-003	7.1420e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.58
tblVehicleEF	OBUS	0.54	0.80
tblVehicleEF	OBUS	5.11	2.26
tblVehicleEF	OBUS	117.81	94.47
tblVehicleEF	OBUS	1,260.49	1,392.51
tblVehicleEF	OBUS	67.92	19.00
tblVehicleEF	OBUS	0.53	0.45
tblVehicleEF	OBUS	1.46	1.47

tblVehicleEF	OBUS	2.57	0.75
tblVehicleEF	OBUS	9.6000e-005	6.7400e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4180e-003
tblVehicleEF	OBUS	7.6880e-003	6.9830e-003
tblVehicleEF	OBUS	0.03	0.02

tblVehicleEF	OBUS	0.30	0.62
tblVehicleEF	OBUS	0.53	0.79
tblVehicleEF	OBUS	5.47	2.42
tblVehicleEF	OBUS	104.30	94.79
tblVehicleEF	OBUS	1,260.49	1,392.48
tblVehicleEF	OBUS	67.92	19.27
tblVehicleEF	OBUS	0.49	0.47
tblVehicleEF	OBUS	1.52	1.54
tblVehicleEF	OBUS	2.61	0.76
tblVehicleEF	OBUS	1.3900e-004	9.5800e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1600e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	9.0200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0580e-003
tblVehicleEF	SBUS	0.06	6.2120e-003
tblVehicleEF	SBUS	8.15	2.77
tblVehicleEF	SBUS	0.72	0.59
tblVehicleEF	SBUS	7.31	0.85
tblVehicleEF	SBUS	1,121.00	351.72
tblVehicleEF	SBUS	1,079.30	1,109.67
tblVehicleEF	SBUS	55.06	5.24
tblVehicleEF	SBUS	9.20	3.22
tblVehicleEF	SBUS	4.17	4.87
tblVehicleEF	SBUS	12.12	0.88
tblVehicleEF	SBUS	9.3410e-003	4.1230e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	8.9370e-003	3.9440e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	3.3650e-003	9.0700e-004
tblVehicleEF	SBUS	0.03	7.8550e-003

tblVehicleEF	SBUS	0.97	0.32
tblVehicleEF	SBUS	1.7650e-003	4.8200e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3550e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7700e-004	5.2000e-005
tblVehicleEF	SBUS	3.3650e-003	9.0700e-004
tblVehicleEF	SBUS	0.03	7.8550e-003
tblVehicleEF	SBUS	1.40	0.46
tblVehicleEF	SBUS	1.7650e-003	4.8200e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1350e-003
tblVehicleEF	SBUS	0.06	5.5320e-003
tblVehicleEF	SBUS	8.04	2.74
tblVehicleEF	SBUS	0.73	0.60
tblVehicleEF	SBUS	5.94	0.69
tblVehicleEF	SBUS	1,171.46	359.77
tblVehicleEF	SBUS	1,079.30	1,109.69
tblVehicleEF	SBUS	55.06	4.98
tblVehicleEF	SBUS	9.50	3.29
tblVehicleEF	SBUS	3.93	4.59
tblVehicleEF	SBUS	12.09	0.87

tblVehicleEF	SBUS	7.8750e-003	3.4830e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	7.5340e-003	3.3320e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
tblVehicleEF	SBUS	0.97	0.32
tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.03
tblVehicleEF	SBUS	0.01	3.4310e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5400e-004	4.9000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
tblVehicleEF	SBUS	1.40	0.45
tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.03
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0360e-003

tblVehicleEF	SBUS	0.07	6.3620e-003
tblVehicleEF	SBUS	8.31	2.83
tblVehicleEF	SBUS	0.72	0.58
tblVehicleEF	SBUS	7.56	0.88
tblVehicleEF	SBUS	1,051.30	340.60
tblVehicleEF	SBUS	1,079.30	1,109.67
tblVehicleEF	SBUS	55.06	5.29
tblVehicleEF	SBUS	8.80	3.13
tblVehicleEF	SBUS	4.10	4.79
tblVehicleEF	SBUS	12.13	0.88
tblVehicleEF	SBUS	0.01	5.0060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	0.01	4.7890e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	3.4320e-003	9.2000e-004
tblVehicleEF	SBUS	0.03	8.2560e-003
tblVehicleEF	SBUS	0.98	0.32
tblVehicleEF	SBUS	1.6940e-003	4.6300e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2500e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.8100e-004	5.2000e-005
tblVehicleEF	SBUS	3.4320e-003	9.2000e-004
tblVehicleEF	SBUS	0.03	8.2560e-003
tblVehicleEF	SBUS	1.41	0.46
tblVehicleEF	SBUS	1.6940e-003	4.6300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.43	0.04
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.22	45.07
tblVehicleEF	UBUS	8.87	0.71
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.53
tblVehicleEF	UBUS	9.98	0.48
tblVehicleEF	UBUS	15.36	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004

tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.5580e-003
tblVehicleEF	UBUS	1.1250e-003	8.4000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
tblVehicleEF	UBUS	3.56	5.92
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.74	0.05
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.07
tblVehicleEF	UBUS	7.69	0.62
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.38
tblVehicleEF	UBUS	9.41	0.48
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005

tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
tblVehicleEF	UBUS	0.07	8.7350e-003
tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	0.86	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.5580e-003
tblVehicleEF	UBUS	1.1050e-003	8.3000e-005
tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
tblVehicleEF	UBUS	0.07	8.7350e-003
tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	3.57	5.92
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.21	45.07
tblVehicleEF	UBUS	9.08	0.72
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.56
tblVehicleEF	UBUS	9.79	0.48
tblVehicleEF	UBUS	15.38	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03

tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.5580e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	3.55	5.92
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	CC_TL	8.40	6.66
tblVehicleTrips	CNW_TL	6.90	5.47
tblVehicleTrips	CW_TL	16.60	13.16
tblVehicleTrips	ST_TR	1.50	1.74
tblVehicleTrips	SU_TR	1.50	1.74
tblVehicleTrips	WD_TR	1.50	1.74

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1082	1.0642	0.7159	1.3000e-003	5.2600e-003	0.0531	0.0584	1.4000e-003	0.0494	0.0508	0.0000	113.6980	113.6980	0.0309	0.0000	114.4697
2021	1.7832	4.2126	3.5652	8.9500e-003	0.4121	0.1663	0.5784	0.1387	0.1553	0.2941	0.0000	810.7499	810.7499	0.1320	0.0000	814.0488
Maximum	**1.7832**	**4.2126**	**3.5652**	**8.9500e-003**	**0.4121**	**0.1663**	**0.5784**	**0.1387**	**0.1553**	**0.2941**	**0.0000**	**810.7499**	**810.7499**	**0.1320**	**0.0000**	**814.0488**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1082	1.0642	0.7159	1.3000e-003	5.2600e-003	0.0531	0.0584	1.4000e-003	0.0494	0.0508	0.0000	113.6979	113.6979	0.0309	0.0000	114.4696
2021	1.7832	4.2126	3.5652	8.9500e-003	0.3063	0.1663	0.4726	0.0951	0.1553	0.2504	0.0000	810.7494	810.7494	0.1320	0.0000	814.0483
Maximum	**1.7832**	**4.2126**	**3.5652**	**8.9500e-003**	**0.3063**	**0.1663**	**0.4726**	**0.0951**	**0.1553**	**0.2504**	**0.0000**	**810.7494**	**810.7494**	**0.1320**	**0.0000**	**814.0483**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**25.35**	**0.00**	**16.62**	**31.15**	**0.00**	**12.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-5-2020**	**1-4-2021**	1.2548	1.2548
2	**1-5-2021**	**4-4-2021**	1.7918	1.7918
3	**4-5-2021**	**7-4-2021**	0.8134	0.8134
4	**7-5-2021**	**9-30-2021**	0.9450	0.9450
		Highest	1.7918	1.7918

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2145	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Energy	0.0285	0.2594	0.2179	1.5600e-003		0.0197	0.0197		0.0197	0.0197	0.0000	1,050.3346	1,050.3346	0.0488	0.0142	1,055.7746
Mobile	0.2369	0.5626	2.5853	7.3200e-003	0.6757	7.2900e-003	0.6830	0.1808	6.8400e-003	0.1876	0.0000	686.7751	686.7751	0.0484	0.0000	687.9860
Waste						0.0000	0.0000		0.0000	0.0000	73.6005	0.0000	73.6005	4.3497	0.0000	182.3420
Water						0.0000	0.0000		0.0000	0.0000	21.4519	204.8739	226.3258	2.2149	0.0544	297.9158
Total	**1.4799**	**0.8222**	**2.8119**	**8.8800e-003**	**0.6757**	**0.0270**	**0.7028**	**0.1808**	**0.0266**	**0.2073**	**95.0524**	**1,942.0006**	**2,037.0529**	**6.6619**	**0.0686**	**2,224.0365**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2145	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Energy	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144	0.0000	918.5467	918.5467	0.0442	0.0121	923.2611
Mobile	0.2369	0.5626	2.5853	7.3200e-003	0.6757	7.2900e-003	0.6830	0.1808	6.8400e-003	0.1876	0.0000	686.7751	686.7751	0.0484	0.0000	687.9860
Waste						0.0000	0.0000		0.0000	0.0000	18.4001	0.0000	18.4001	1.0874	0.0000	45.5855
Water						0.0000	0.0000		0.0000	0.0000	17.1615	163.8991	181.0606	1.7719	0.0435	238.3326
Total	**1.4722**	**0.7517**	**2.7528**	**8.4500e-003**	**0.6757**	**0.0217**	**0.6974**	**0.1808**	**0.0212**	**0.2020**	**35.5617**	**1,769.2379**	**1,804.7995**	**2.9521**	**0.0557**	**1,895.1833**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.52**	**8.57**	**2.10**	**4.84**	**0.00**	**19.82**	**0.76**	**0.00**	**20.16**	**2.59**	**62.59**	**8.90**	**11.40**	**55.69**	**18.85**	**14.79**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/5/2020	12/31/2020	5	64	
2	Grading	Grading	1/1/2021	3/3/2021	5	44	
3	Building Construction	Building Construction	3/3/2021	12/28/2021	5	215	
4	Paving	Paving	9/1/2021	10/26/2021	5	40	
5	Architectural Coating	Architectural Coating	10/27/2021	12/27/2021	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 7.59

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 438,600; Non-Residential Outdoor: 146,200; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Panattoni Warehouse (only) Project - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	3,425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	123.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1060	1.0624	0.6961	1.2400e-003		0.0531	0.0531		0.0493	0.0493	0.0000	108.7955	108.7955	0.0307	0.0000	109.5634
Total	**0.1060**	**1.0624**	**0.6961**	**1.2400e-003**		**0.0531**	**0.0531**		**0.0493**	**0.0493**	**0.0000**	**108.7955**	**108.7955**	**0.0307**	**0.0000**	**109.5634**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.7900e-003	0.0198	5.0000e-005	5.2600e-003	4.0000e-005	5.3000e-003	1.4000e-003	4.0000e-005	1.4400e-003	0.0000	4.9025	4.9025	1.5000e-004	0.0000	4.9064
Total	**2.2200e-003**	**1.7900e-003**	**0.0198**	**5.0000e-005**	**5.2600e-003**	**4.0000e-005**	**5.3000e-003**	**1.4000e-003**	**4.0000e-005**	**1.4400e-003**	**0.0000**	**4.9025**	**4.9025**	**1.5000e-004**	**0.0000**	**4.9064**

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	0.1060	1.0624	0.6961	1.2400e-003		0.0531	0.0531		0.0493	0.0493	0.0000	108.7954	108.7954	0.0307	0.0000	109.5632
Total	**0.1060**	**1.0624**	**0.6961**	**1.2400e-003**		**0.0531**	**0.0531**		**0.0493**	**0.0493**	**0.0000**	**108.7954**	**108.7954**	**0.0307**	**0.0000**	**109.5632**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.7900e-003	0.0198	5.0000e-005	5.2600e-003	4.0000e-005	5.3000e-003	1.4000e-003	4.0000e-005	1.4400e-003	0.0000	4.9025	4.9025	1.5000e-004	0.0000	4.9064
Total	**2.2200e-003**	**1.7900e-003**	**0.0198**	**5.0000e-005**	**5.2600e-003**	**4.0000e-005**	**5.3000e-003**	**1.4000e-003**	**4.0000e-005**	**1.4400e-003**	**0.0000**	**4.9025**	**4.9025**	**1.5000e-004**	**0.0000**	**4.9064**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1924	0.0000	0.1924	0.0794	0.0000	0.0794	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0913	1.0151	0.6571	1.3200e-003		0.0438	0.0438		0.0403	0.0403	0.0000	115.9115	115.9115	0.0375	0.0000	116.8487
Total	**0.0913**	**1.0151**	**0.6571**	**1.3200e-003**	**0.1924**	**0.0438**	**0.2362**	**0.0794**	**0.0403**	**0.1197**	**0.0000**	**115.9115**	**115.9115**	**0.0375**	**0.0000**	**116.8487**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0144	0.4741	0.1105	1.3300e-003	0.0294	1.4200e-003	0.0309	8.0800e-003	1.3600e-003	9.4400e-003	0.0000	130.5432	130.5432	9.0600e-003	0.0000	130.7698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	**0.0158**	**0.4752**	**0.1230**	**1.3700e-003**	**0.0331**	**1.4500e-003**	**0.0345**	**9.0400e-003**	**1.3900e-003**	**0.0104**	**0.0000**	**133.8067**	**133.8067**	**9.1600e-003**	**0.0000**	**134.0356**

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					0.0866	0.0000	0.0866	0.0357	0.0000	0.0357	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0913	1.0151	0.6571	1.3200e-003		0.0438	0.0438		0.0403	0.0403	0.0000	115.9113	115.9113	0.0375	0.0000	116.8485
Total	**0.0913**	**1.0151**	**0.6571**	**1.3200e-003**	**0.0866**	**0.0438**	**0.1304**	**0.0357**	**0.0403**	**0.0760**	**0.0000**	**115.9113**	**115.9113**	**0.0375**	**0.0000**	**116.8485**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0144	0.4741	0.1105	1.3300e-003	0.0294	1.4200e-003	0.0309	8.0800e-003	1.3600e-003	9.4400e-003	0.0000	130.5432	130.5432	9.0600e-003	0.0000	130.7698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	**0.0158**	**0.4752**	**0.1230**	**1.3700e-003**	**0.0331**	**1.4500e-003**	**0.0345**	**9.0400e-003**	**1.3900e-003**	**0.0104**	**0.0000**	**133.8067**	**133.8067**	**9.1600e-003**	**0.0000**	**134.0356**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2044	1.8740	1.7818	2.8900e-003		0.1031	0.1031		0.0969	0.0969	0.0000	249.0101	249.0101	0.0601	0.0000	250.5120
Total	**0.2044**	**1.8740**	**1.7818**	**2.8900e-003**		**0.1031**	**0.1031**		**0.0969**	**0.0969**	**0.0000**	**249.0101**	**249.0101**	**0.0601**	**0.0000**	**250.5120**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0160	0.5092	0.1381	1.3100e-003	0.0325	1.0400e-003	0.0335	9.3800e-003	9.9000e-004	0.0104	0.0000	127.1922	127.1922	7.8000e-003	0.0000	127.3873
Worker	0.0569	0.0443	0.5000	1.4500e-003	0.1449	1.1900e-003	0.1461	0.0385	1.1000e-003	0.0396	0.0000	130.7596	130.7596	3.8500e-003	0.0000	130.8558
Total	**0.0729**	**0.5535**	**0.6381**	**2.7600e-003**	**0.1774**	**2.2300e-003**	**0.1796**	**0.0479**	**2.0900e-003**	**0.0500**	**0.0000**	**257.9518**	**257.9518**	**0.0117**	**0.0000**	**258.2430**

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	0.2044	1.8740	1.7818	2.8900e-003		0.1031	0.1031		0.0969	0.0969	0.0000	249.0098	249.0098	0.0601	0.0000	250.5117
Total	**0.2044**	**1.8740**	**1.7818**	**2.8900e-003**		**0.1031**	**0.1031**		**0.0969**	**0.0969**	**0.0000**	**249.0098**	**249.0098**	**0.0601**	**0.0000**	**250.5117**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0160	0.5092	0.1381	1.3100e-003	0.0325	1.0400e-003	0.0335	9.3800e-003	9.9000e-004	0.0104	0.0000	127.1922	127.1922	7.8000e-003	0.0000	127.3873
Worker	0.0569	0.0443	0.5000	1.4500e-003	0.1449	1.1900e-003	0.1461	0.0385	1.1000e-003	0.0396	0.0000	130.7596	130.7596	3.8500e-003	0.0000	130.8558
Total	**0.0729**	**0.5535**	**0.6381**	**2.7600e-003**	**0.1774**	**2.2300e-003**	**0.1796**	**0.0479**	**2.0900e-003**	**0.0500**	**0.0000**	**257.9518**	**257.9518**	**0.0117**	**0.0000**	**258.2430**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708
Paving	9.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0351**	**0.2584**	**0.2931**	**4.6000e-004**		**0.0136**	**0.0136**		**0.0125**	**0.0125**	**0.0000**	**40.0470**	**40.0470**	**0.0130**	**0.0000**	**40.3708**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	**1.2900e-003**	**1.0000e-003**	**0.0113**	**3.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3100e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9668**	**2.9668**	**9.0000e-005**	**0.0000**	**2.9689**

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	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707
Paving	9.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0351**	**0.2584**	**0.2931**	**4.6000e-004**		**0.0136**	**0.0136**		**0.0125**	**0.0125**	**0.0000**	**40.0469**	**40.0469**	**0.0130**	**0.0000**	**40.3707**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	**1.2900e-003**	**1.0000e-003**	**0.0113**	**3.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3100e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9668**	**2.9668**	**9.0000e-005**	**0.0000**	**2.9689**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3553					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8200e-003	0.0336	0.0400	7.0000e-005		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268
Total	**1.3601**	**0.0336**	**0.0400**	**7.0000e-005**		**2.0700e-003**	**2.0700e-003**		**2.0700e-003**	**2.0700e-003**	**0.0000**	**5.6172**	**5.6172**	**3.9000e-004**	**0.0000**	**5.6268**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3700e-003	1.8400e-003	0.0208	6.0000e-005	6.0300e-003	5.0000e-005	6.0800e-003	1.6000e-003	5.0000e-005	1.6500e-003	0.0000	5.4390	5.4390	1.6000e-004	0.0000	5.4431
Total	**2.3700e-003**	**1.8400e-003**	**0.0208**	**6.0000e-005**	**6.0300e-003**	**5.0000e-005**	**6.0800e-003**	**1.6000e-003**	**5.0000e-005**	**1.6500e-003**	**0.0000**	**5.4390**	**5.4390**	**1.6000e-004**	**0.0000**	**5.4431**

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	1.3553					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8200e-003	0.0336	0.0400	7.0000e-005		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268
Total	**1.3601**	**0.0336**	**0.0400**	**7.0000e-005**		**2.0700e-003**	**2.0700e-003**		**2.0700e-003**	**2.0700e-003**	**0.0000**	**5.6172**	**5.6172**	**3.9000e-004**	**0.0000**	**5.6268**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3700e-003	1.8400e-003	0.0208	6.0000e-005	6.0300e-003	5.0000e-005	6.0800e-003	1.6000e-003	5.0000e-005	1.6500e-003	0.0000	5.4390	5.4390	1.6000e-004	0.0000	5.4431
Total	**2.3700e-003**	**1.8400e-003**	**0.0208**	**6.0000e-005**	**6.0300e-003**	**5.0000e-005**	**6.0800e-003**	**1.6000e-003**	**5.0000e-005**	**1.6500e-003**	**0.0000**	**5.4390**	**5.4390**	**1.6000e-004**	**0.0000**	**5.4431**

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	0.2369	0.5626	2.5853	7.3200e-003	0.6757	7.2900e-003	0.6830	0.1808	6.8400e-003	0.1876	0.0000	686.7751	686.7751	0.0484	0.0000	687.9860
Unmitigated	0.2369	0.5626	2.5853	7.3200e-003	0.6757	7.2900e-003	0.6830	0.1808	6.8400e-003	0.1876	0.0000	686.7751	686.7751	0.0484	0.0000	687.9860

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	508.78	508.78	508.78	1,786,262	1,786,262
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	508.78	508.78	508.78	1,786,262	1,786,262

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	13.16	6.66	5.47	59.00	28.00	13.00	92	5	3
Other 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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	712.7979	712.7979	0.0403	8.3400e-003	716.2896
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	767.9098	767.9098	0.0434	8.9800e-003	771.6715
NaturalGas Mitigated	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144	0.0000	205.7488	205.7488	3.9400e-003	3.7700e-003	206.9714
NaturalGas Unmitigated	0.0285	0.2594	0.2179	1.5600e-003		0.0197	0.0197		0.0197	0.0197	0.0000	282.4248	282.4248	5.4100e-003	5.1800e-003	284.1031

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	5.29244e+006	0.0285	0.2594	0.2179	1.5600e-003		0.0197	0.0197		0.0197	0.0197	0.0000	282.4248	282.4248	5.4100e-003	5.1800e-003	284.1031
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0285**	**0.2594**	**0.2179**	**1.5600e-003**		**0.0197**	**0.0197**		**0.0197**	**0.0197**	**0.0000**	**282.4248**	**282.4248**	**5.4100e-003**	**5.1800e-003**	**284.1031**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	3.85559e+006	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144	0.0000	205.7488	205.7488	3.9400e-003	3.7700e-003	206.9714
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0208**	**0.1890**	**0.1588**	**1.1300e-003**		**0.0144**	**0.0144**		**0.0144**	**0.0144**	**0.0000**	**205.7488**	**205.7488**	**3.9400e-003**	**3.7700e-003**	**206.9714**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	3.24564e+006	755.2373	0.0427	8.8300e-003	758.9370
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	54460	12.6725	7.2000e-004	1.5000e-004	12.7345
Total		**767.9098**	**0.0434**	**8.9800e-003**	**771.6715**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	3.0088e+006	700.1254	0.0396	8.1900e-003	703.5551
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	54460	12.6725	7.2000e-004	1.5000e-004	12.7345
Total		**712.7979**	**0.0403**	**8.3400e-003**	**716.2896**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2145	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Unmitigated	1.2145	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181

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	0.1355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0782					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1000e-004	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Total	**1.2145**	**8.0000e-005**	**8.7600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0170**	**0.0170**	**4.0000e-005**	**0.0000**	**0.0181**

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	0.1355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0782					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1000e-004	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Total	**1.2145**	**8.0000e-005**	**8.7600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0170**	**0.0170**	**4.0000e-005**	**0.0000**	**0.0181**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	181.0606	1.7719	0.0435	238.3326
Unmitigated	226.3258	2.2149	0.0544	297.9158

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	67.6175 / 0	226.3258	2.2149	0.0544	297.9158
Other 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		**226.3258**	**2.2149**	**0.0544**	**297.9158**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	54.094 / 0	181.0606	1.7719	0.0435	238.3326
Other 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		**181.0606**	**1.7719**	**0.0435**	**238.3326**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.4001	1.0874	0.0000	45.5855
Unmitigated	73.6005	4.3497	0.0000	182.3420

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	362.58	73.6005	4.3497	0.0000	182.3420
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**73.6005**	**4.3497**	**0.0000**	**182.3420**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	90.645	18.4001	1.0874	0.0000	45.5855
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**18.4001**	**1.0874**	**0.0000**	**45.5855**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Panattoni Warehouse (only) Project

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	292.40	1000sqft	6.71	292,400.00	0
Other Asphalt Surfaces	4.09	Acre	4.09	178,160.40	0
Parking Lot	389.00	Space	3.50	155,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2018 Sustainability report pg10 https://www.edison.com/content/dam/eix/documents/sustainability/eix-2018-sustainability-report.pdf

Land Use - 14.2 acre site

Construction Phase - Anticipated Construction Schedule

Grading - Per Conceptual Grading Plan.

Vehicle Trips - Per the ITE Trip Gen Manual 10th Edition, 2017.

VMT from the Panattoni Warehouse project VMT Draft Memorandum. Project would have 4,906 daily VMT. CalEEmod assumes 364 days a year so project total is approximately 1,786,276

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 requirements.

Water Mitigation - 2019 Title 24 and CalGreen Code Requirements.

Waste Mitigation - AB 341 requirements

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	20,026.00	0.00
tblAreaCoating	Area_Parking	20026	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	300.00	215.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	30.00	44.00

Panattoni Warehouse (only) Project - Los Angeles-South Coast County, Summer

tblConstructionPhase	NumDays	20.00	40.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblFleetMix	UBUS	2.2010e-003	0.00

tblGrading	MaterialImported	0.00	27,400.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblTripsAndVMT	VendorTripNumber	103.00	48.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	263.00	123.00
tblTripsAndVMT	WorkerTripNumber	53.00	25.00
tblVehicleEF	HHD	0.62	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	2.47	6.32
tblVehicleEF	HHD	1.15	0.58
tblVehicleEF	HHD	3.30	9.3040e-003
tblVehicleEF	HHD	4,690.45	1,186.71
tblVehicleEF	HHD	1,639.83	1,477.44
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	20.39	6.38
tblVehicleEF	HHD	3.81	3.57
tblVehicleEF	HHD	19.54	2.07
tblVehicleEF	HHD	0.01	3.9310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.7610e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.6800e-004
tblVehicleEF	HHD	0.62	0.46
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.9500e-004	1.4610e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.6800e-004
tblVehicleEF	HHD	0.72	0.53
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.9500e-004	1.4610e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.80	6.18
tblVehicleEF	HHD	1.16	0.58
tblVehicleEF	HHD	3.13	8.8350e-003
tblVehicleEF	HHD	4,968.94	1,182.90

tblVehicleEF	HHD	1,639.83	1,477.44
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	21.04	6.19
tblVehicleEF	HHD	3.60	3.38
tblVehicleEF	HHD	19.53	2.07
tblVehicleEF	HHD	0.01	3.4390e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.2910e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.7300e-004
tblVehicleEF	HHD	0.58	0.48
tblVehicleEF	HHD	1.1400e-004	7.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.8400e-004	1.4410e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.5700e-004	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.7300e-004

tblVehicleEF	HHD	0.68	0.55
tblVehicleEF	HHD	1.1400e-004	7.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.8400e-004	1.4410e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.67	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	3.41	6.51
tblVehicleEF	HHD	1.15	0.57
tblVehicleEF	HHD	3.33	9.3940e-003
tblVehicleEF	HHD	4,305.87	1,191.98
tblVehicleEF	HHD	1,639.83	1,477.44
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	19.48	6.64
tblVehicleEF	HHD	3.75	3.51
tblVehicleEF	HHD	19.55	2.07
tblVehicleEF	HHD	0.02	4.6110e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.02	4.4110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006

tblVehicleEF	HHD	1.0300e-004	7.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.0500e-004
tblVehicleEF	HHD	0.66	0.43
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.2900e-004	1.5510e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	7.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.0500e-004
tblVehicleEF	HHD	0.78	0.50
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	4.2900e-004	1.5510e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	LDA	5.3420e-003	3.0340e-003
tblVehicleEF	LDA	5.4040e-003	0.05
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	1.15	2.10
tblVehicleEF	LDA	274.33	270.89
tblVehicleEF	LDA	57.08	53.31
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003

tblVehicleEF	LDA	2.0000e-003	1.6540e-003
tblVehicleEF	LDA	2.0830e-003	1.6910e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.7480e-003	2.6800e-003
tblVehicleEF	LDA	5.9000e-004	5.2800e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	5.6740e-003	3.2480e-003
tblVehicleEF	LDA	4.8010e-003	0.04
tblVehicleEF	LDA	0.72	0.79
tblVehicleEF	LDA	0.98	1.79
tblVehicleEF	LDA	287.10	283.19
tblVehicleEF	LDA	57.08	52.73
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003
tblVehicleEF	LDA	2.0000e-003	1.6540e-003

tblVehicleEF	LDA	2.0830e-003	1.6910e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.8760e-003	2.8020e-003
tblVehicleEF	LDA	5.8700e-004	5.2200e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.2330e-003	2.9680e-003
tblVehicleEF	LDA	5.5300e-003	0.05
tblVehicleEF	LDA	0.63	0.69
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	269.66	266.39
tblVehicleEF	LDA	57.08	53.43
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003
tblVehicleEF	LDA	2.0000e-003	1.6540e-003
tblVehicleEF	LDA	2.0830e-003	1.6910e-003

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.7010e-003	2.6350e-003
tblVehicleEF	LDA	5.9100e-004	5.2900e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.02	7.7890e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.68	1.46
tblVehicleEF	LDT1	2.78	2.27
tblVehicleEF	LDT1	341.15	318.65
tblVehicleEF	LDT1	69.44	63.32
tblVehicleEF	LDT1	0.16	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13

tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	3.4330e-003	3.1530e-003
tblVehicleEF	LDT1	7.4300e-004	6.2700e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.2630e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.59
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	331.08
tblVehicleEF	LDT1	69.44	62.64
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21

tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.5840e-003	3.2760e-003
tblVehicleEF	LDT1	7.3600e-004	6.2000e-004
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.02	7.6410e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	314.09
tblVehicleEF	LDT1	69.44	63.47
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.20	0.37
tblVehicleEF	LDT1	3.3780e-003	3.1080e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9910e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	341.38
tblVehicleEF	LDT2	78.07	68.34
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3770e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.3200e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	353.53
tblVehicleEF	LDT2	78.07	67.60
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38

tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	3.9980e-003	3.4980e-003
tblVehicleEF	LDT2	8.0000e-004	6.6900e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8890e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
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tblVehicleEF	LDT2	78.07	68.50
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.29
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32

tblVehicleEF	LDT2	3.7630e-003	3.3330e-003
tblVehicleEF	LDT2	8.0400e-004	6.7800e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.5830e-003
tblVehicleEF	LHD1	0.01	5.7240e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.21
tblVehicleEF	LHD1	33.34	12.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.65
tblVehicleEF	LHD1	1.01	0.33
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003

tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8500e-004	1.2300e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.5950e-003
tblVehicleEF	LHD1	0.01	5.8420e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.67
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.23
tblVehicleEF	LHD1	33.34	12.33

tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5070e-003
tblVehicleEF	LHD1	3.8300e-004	1.2200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.54

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.5970e-003	5.5810e-003
tblVehicleEF	LHD1	0.01	5.6940e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.65
tblVehicleEF	LHD1	2.81	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.20
tblVehicleEF	LHD1	33.34	12.44
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.94	0.64
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8600e-004	1.2300e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9120e-003
tblVehicleEF	LHD2	4.2980e-003	3.9650e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.76
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.56
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.65	0.84
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004

tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9200e-003
tblVehicleEF	LHD2	4.3570e-003	4.0120e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.73

tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.36
tblVehicleEF	LHD2	27.88	9.50
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.61	0.79
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0300e-004	9.4000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9100e-003
tblVehicleEF	LHD2	4.2820e-003	3.9540e-003
tblVehicleEF	LHD2	8.5780e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.38	0.77
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.57
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.64	0.82
tblVehicleEF	LHD2	0.56	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.94	19.19
tblVehicleEF	MCY	9.66	8.53
tblVehicleEF	MCY	188.92	223.45
tblVehicleEF	MCY	44.52	59.65
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.06	1.09

tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.05	1.82
tblVehicleEF	MCY	2.2780e-003	2.2110e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.47
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.09
tblVehicleEF	MCY	44.52	57.74
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73

tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.1980e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.29
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.65
tblVehicleEF	MCY	44.52	59.99
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64

tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2130e-003
tblVehicleEF	MCY	6.6700e-004	5.9400e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.11
tblVehicleEF	MDV	512.22	419.24
tblVehicleEF	MDV	103.14	83.18
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03

tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1450e-003
tblVehicleEF	MDV	1.0750e-003	8.2300e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9930e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.33
tblVehicleEF	MDV	2.12	2.64
tblVehicleEF	MDV	534.67	432.09
tblVehicleEF	MDV	103.14	82.28
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40

tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	5.3570e-003	4.2720e-003
tblVehicleEF	MDV	1.0680e-003	8.1400e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4430e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	414.54
tblVehicleEF	MDV	103.14	83.37
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41

tblVehicleEF	MDV	5.0480e-003	4.0980e-003
tblVehicleEF	MDV	1.0760e-003	8.2500e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.21
tblVehicleEF	MH	5.78	2.15
tblVehicleEF	MH	1,130.03	1,501.21
tblVehicleEF	MH	60.43	19.42
tblVehicleEF	MH	1.08	1.11
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.46

tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0500e-004	1.9200e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.30	1.24
tblVehicleEF	MH	5.44	2.03
tblVehicleEF	MH	1,130.03	1,501.27
tblVehicleEF	MH	60.43	19.21
tblVehicleEF	MH	0.99	1.03
tblVehicleEF	MH	0.76	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.09	0.06

tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9900e-004	1.9000e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.22	1.20
tblVehicleEF	MH	5.83	2.18
tblVehicleEF	MH	1,130.03	1,501.20
tblVehicleEF	MH	60.43	19.45
tblVehicleEF	MH	1.06	1.09
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36

tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0600e-004	1.9300e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MHD	0.02	4.3860e-003
tblVehicleEF	MHD	4.8560e-003	4.5970e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.14	1.42
tblVehicleEF	MHD	132.92	67.37
tblVehicleEF	MHD	1,150.98	1,069.65
tblVehicleEF	MHD	63.58	12.05
tblVehicleEF	MHD	0.49	0.48
tblVehicleEF	MHD	1.14	1.63
tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0770e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.3800e-004	1.0300e-003

tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.1900e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1570e-003
tblVehicleEF	MHD	4.9280e-003	4.6490e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	0.38	0.48
tblVehicleEF	MHD	5.83	1.35
tblVehicleEF	MHD	140.78	68.19
tblVehicleEF	MHD	1,150.98	1,069.66

tblVehicleEF	MHD	63.58	11.93
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.29
tblVehicleEF	MHD	2.0900e-004	9.1000e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.0000e-004	8.7100e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1800e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07

tblVehicleEF	MHD	0.02	4.7150e-003
tblVehicleEF	MHD	4.8360e-003	4.5810e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.52	0.49
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.20	1.44
tblVehicleEF	MHD	122.05	66.24
tblVehicleEF	MHD	1,150.98	1,069.64
tblVehicleEF	MHD	63.58	12.07
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tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3060e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.8900e-004	1.2500e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	7.4400e-004	1.1900e-004
tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.07
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tblVehicleEF	MHD	0.41	0.07
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tblVehicleEF	OBUS	7.7220e-003	7.0170e-003
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tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.79
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tblVehicleEF	OBUS	112.13	94.60
tblVehicleEF	OBUS	1,260.49	1,392.48
tblVehicleEF	OBUS	67.92	19.23
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tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.76
tblVehicleEF	OBUS	1.1400e-004	7.9300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5900e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	9.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5410e-003
tblVehicleEF	OBUS	7.8490e-003	7.1420e-003
tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	0.54	0.80
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tblVehicleEF	OBUS	117.81	94.47
tblVehicleEF	OBUS	1,260.49	1,392.51
tblVehicleEF	OBUS	67.92	19.00
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tblVehicleEF	OBUS	1.46	1.47

tblVehicleEF	OBUS	2.57	0.75
tblVehicleEF	OBUS	9.6000e-005	6.7400e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4180e-003
tblVehicleEF	OBUS	7.6880e-003	6.9830e-003
tblVehicleEF	OBUS	0.03	0.02

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tblVehicleEF	OBUS	104.30	94.79
tblVehicleEF	OBUS	1,260.49	1,392.48
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tblVehicleEF	OBUS	1.52	1.54
tblVehicleEF	OBUS	2.61	0.76
tblVehicleEF	OBUS	1.3900e-004	9.5800e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1600e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	9.0200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	8.9370e-003	3.9440e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
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tblVehicleEF	SBUS	3.3650e-003	9.0700e-004
tblVehicleEF	SBUS	0.03	7.8550e-003

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tblVehicleEF	SBUS	1.7650e-003	4.8200e-004
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	7.5340e-003	3.3320e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
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tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
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tblVehicleEF	SBUS	0.01	0.05
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tblVehicleEF	SBUS	0.01	3.4310e-003
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tblVehicleEF	SBUS	0.03	7.9970e-003
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tblVehicleEF	SBUS	0.07	6.3620e-003
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	0.01	4.7890e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	3.4320e-003	9.2000e-004
tblVehicleEF	SBUS	0.03	8.2560e-003
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tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2500e-003
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tblVehicleEF	SBUS	6.8100e-004	5.2000e-005
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tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004

tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.5580e-003
tblVehicleEF	UBUS	1.1250e-003	8.4000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
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tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.07
tblVehicleEF	UBUS	7.69	0.62
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.38
tblVehicleEF	UBUS	9.41	0.48
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005

tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
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tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	0.86	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.5580e-003
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tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
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tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
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tblVehicleEF	UBUS	9.08	0.72
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.56
tblVehicleEF	UBUS	9.79	0.48
tblVehicleEF	UBUS	15.38	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03

tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.5580e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	3.55	5.92
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	CC_TL	8.40	6.66
tblVehicleTrips	CNW_TL	6.90	5.47
tblVehicleTrips	CW_TL	16.60	13.16
tblVehicleTrips	ST_TR	1.50	1.74
tblVehicleTrips	SU_TR	1.50	1.74
tblVehicleTrips	WD_TR	1.50	1.74

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.3812	33.2501	22.4100	0.0406	0.1677	1.6601	1.8278	0.0445	1.5431	1.5876	0.0000	3,924.1219	3,924.1219	1.0635	0.0000	3,950.7096
2021	64.5035	89.5215	58.1145	0.1757	11.9547	3.0374	14.9920	4.4778	2.8165	7.2943	0.0000	17,840.8596	17,840.8596	3.0655	0.0000	17,917.4980
Maximum	**64.5035**	**89.5215**	**58.1145**	**0.1757**	**11.9547**	**3.0374**	**14.9920**	**4.4778**	**2.8165**	**7.2943**	**0.0000**	**17,840.8596**	**17,840.8596**	**3.0655**	**0.0000**	**17,917.4980**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.3812	33.2501	22.4100	0.0406	0.1677	1.6601	1.8278	0.0445	1.5431	1.5876	0.0000	3,924.1219	3,924.1219	1.0635	0.0000	3,950.7096
2021	64.5035	89.5215	58.1145	0.1757	7.1456	3.0374	10.1830	2.4939	2.8165	5.3103	0.0000	17,840.8596	17,840.8596	3.0655	0.0000	17,917.4980
Maximum	**64.5035**	**89.5215**	**58.1145**	**0.1757**	**7.1456**	**3.0374**	**10.1830**	**2.4939**	**2.8165**	**5.3103**	**0.0000**	**17,840.8596**	**17,840.8596**	**3.0655**	**0.0000**	**17,917.4980**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**39.67**	**0.00**	**28.59**	**43.87**	**0.00**	**22.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Energy	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001
Mobile	1.3295	2.8837	14.6628	0.0415	3.7860	0.0401	3.8261	1.0111	0.0376	1.0487		4,286.0178	4,286.0178	0.2898		4,293.2615
Total	**8.1427**	**4.3059**	**15.9270**	**0.0500**	**3.7860**	**0.1484**	**3.9344**	**1.0111**	**0.1459**	**1.1570**		**5,992.0309**	**5,992.0309**	**0.3229**	**0.0313**	**6,009.4215**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Energy	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
Mobile	1.3295	2.8837	14.6628	0.0415	3.7860	0.0401	3.8261	1.0111	0.0376	1.0487		4,286.0178	4,286.0178	0.2898		4,293.2615
Total	**8.1003**	**3.9199**	**15.6028**	**0.0477**	**3.7860**	**0.1191**	**3.9051**	**1.0111**	**0.1166**	**1.1277**		**5,528.9032**	**5,528.9032**	**0.3140**	**0.0228**	**5,543.5417**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.52**	**8.96**	**2.04**	**4.64**	**0.00**	**19.77**	**0.75**	**0.00**	**20.10**	**2.53**	**0.00**	**7.73**	**7.73**	**2.75**	**27.15**	**7.75**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/5/2020	12/31/2020	5	64	
2	Grading	Grading	1/1/2021	3/3/2021	5	44	
3	Building Construction	Building Construction	3/3/2021	12/28/2021	5	215	
4	Paving	Paving	9/1/2021	10/26/2021	5	40	
5	Architectural Coating	Architectural Coating	10/27/2021	12/27/2021	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 7.59

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 438,600; Non-Residential Outdoor: 146,200; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Panattoni Warehouse (only) Project - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	3,425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	123.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7438	0.0000	8.7438	3.6072	0.0000	3.6072			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600		1.9927	1.9927		1.8333	1.8333		5,807.7515	5,807.7515	1.8783		5,854.7102
Total	**4.1493**	**46.1422**	**29.8669**	**0.0600**	**8.7438**	**1.9927**	**10.7364**	**3.6072**	**1.8333**	**5.4404**		**5,807.7515**	**5,807.7515**	**1.8783**		**5,854.7102**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6490	20.8803	4.8958	0.0607	1.3611	0.0641	1.4252	0.3731	0.0613	0.4344		6,588.8147	6,588.8147	0.4471		6,599.9932
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.7133**	**20.9245**	**5.5000**	**0.0624**	**1.5287**	**0.0654**	**1.5942**	**0.4176**	**0.0626**	**0.4801**		**6,759.6302**	**6,759.6302**	**0.4522**		**6,770.9345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9347	0.0000	3.9347	1.6232	0.0000	1.6232			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600		1.9927	1.9927		1.8333	1.8333	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102
Total	**4.1493**	**46.1422**	**29.8669**	**0.0600**	**3.9347**	**1.9927**	**5.9274**	**1.6232**	**1.8333**	**3.4565**	**0.0000**	**5,807.7515**	**5,807.7515**	**1.8783**		**5,854.7102**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6490	20.8803	4.8958	0.0607	1.3611	0.0641	1.4252	0.3731	0.0613	0.4344		6,588.8147	6,588.8147	0.4471		6,599.9932
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.7133**	**20.9245**	**5.5000**	**0.0624**	**1.5287**	**0.0654**	**1.5942**	**0.4176**	**0.0626**	**0.4801**		**6,759.6302**	**6,759.6302**	**0.4522**		**6,770.9345**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1459	4.6603	1.2183	0.0123	0.3073	9.5300e-003	0.3168	0.0885	9.1100e-003	0.0976		1,319.4270	1,319.4270	0.0777		1,321.3703
Worker	0.5273	0.3624	4.9541	0.0141	1.3749	0.0111	1.3860	0.3646	0.0102	0.3749		1,400.6869	1,400.6869	0.0413		1,401.7187
Total	**0.6732**	**5.0227**	**6.1724**	**0.0264**	**1.6822**	**0.0206**	**1.7028**	**0.4531**	**0.0193**	**0.4724**		**2,720.1139**	**2,720.1139**	**0.1190**		**2,723.0890**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1459	4.6603	1.2183	0.0123	0.3073	9.5300e-003	0.3168	0.0885	9.1100e-003	0.0976		1,319.4270	1,319.4270	0.0777		1,321.3703
Worker	0.5273	0.3624	4.9541	0.0141	1.3749	0.0111	1.3860	0.3646	0.0102	0.3749		1,400.6869	1,400.6869	0.0413		1,401.7187
Total	**0.6732**	**5.0227**	**6.1724**	**0.0264**	**1.6822**	**0.0206**	**1.7028**	**0.4531**	**0.0193**	**0.4724**		**2,720.1139**	**2,720.1139**	**0.1190**		**2,723.0890**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7527**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7527**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**61.8223**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1072	0.0737	1.0069	2.8600e-003	0.2794	2.2600e-003	0.2817	0.0741	2.0800e-003	0.0762		284.6925	284.6925	8.3900e-003		284.9022
Total	**0.1072**	**0.0737**	**1.0069**	**2.8600e-003**	**0.2794**	**2.2600e-003**	**0.2817**	**0.0741**	**2.0800e-003**	**0.0762**		**284.6925**	**284.6925**	**8.3900e-003**		**284.9022**

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	61.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**61.8223**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1072	0.0737	1.0069	2.8600e-003	0.2794	2.2600e-003	0.2817	0.0741	2.0800e-003	0.0762		284.6925	284.6925	8.3900e-003		284.9022
Total	**0.1072**	**0.0737**	**1.0069**	**2.8600e-003**	**0.2794**	**2.2600e-003**	**0.2817**	**0.0741**	**2.0800e-003**	**0.0762**		**284.6925**	**284.6925**	**8.3900e-003**		**284.9022**

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	1.3295	2.8837	14.6628	0.0415	3.7860	0.0401	3.8261	1.0111	0.0376	1.0487		4,286.0178	4,286.0178	0.2898		4,293.2615
Unmitigated	1.3295	2.8837	14.6628	0.0415	3.7860	0.0401	3.8261	1.0111	0.0376	1.0487		4,286.0178	4,286.0178	0.2898		4,293.2615

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	508.78	508.78	508.78	1,786,262	1,786,262
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	508.78	508.78	508.78	1,786,262	1,786,262

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	13.16	6.66	5.47	59.00	28.00	13.00	92	5	3
Other 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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
NaturalGas Unmitigated	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	14499.8	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1564**	**1.4216**	**1.1941**	**8.5300e-003**		**0.1080**	**0.1080**		**0.1080**	**0.1080**		**1,705.8630**	**1,705.8630**	**0.0327**	**0.0313**	**1,716.0001**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	10.5633	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1139**	**1.0356**	**0.8699**	**6.2100e-003**		**0.0787**	**0.0787**		**0.0787**	**0.0787**		**1,242.7353**	**1,242.7353**	**0.0238**	**0.0228**	**1,250.1203**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Unmitigated	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599

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	0.7426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Total	**6.6569**	**6.4000e-004**	**0.0701**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1500**	**0.1500**	**4.0000e-004**		**0.1599**

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	0.7426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Total	**6.6569**	**6.4000e-004**	**0.0701**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1500**	**0.1500**	**4.0000e-004**		**0.1599**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Panattoni Warehouse (only) Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	292.40	1000sqft	6.71	292,400.00	0
Other Asphalt Surfaces	4.09	Acre	4.09	178,160.40	0
Parking Lot	389.00	Space	3.50	155,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2018 Sustainability report pg10 https://www.edison.com/content/dam/eix/documents/sustainability/eix-2018-sustainability-report.pdf

Land Use - 14.2 acre site

Construction Phase - Anticipated Construction Schedule

Grading - Per Conceptual Grading Plan.

Vehicle Trips - Per the ITE Trip Gen Manual 10th Edition, 2017.

VMT from the Panattoni Warehouse project VMT Draft Memorandum. Project would have 4,906 daily VMT. CalEEmod assumes 364 days a year so project total is approximately 1,786,276

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Vehicle Emission Factors - EMFAC2017 Operational Year 2022

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 requirements.

Water Mitigation - 2019 Title 24 and CalGreen Code Requirements.

Waste Mitigation - AB 341 requirements

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	20,026.00	0.00
tblAreaCoating	Area_Parking	20026	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	300.00	215.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	30.00	44.00

tblConstructionPhase	NumDays	20.00	40.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblFleetMix	UBUS	2.2010e-003	0.00

tblGrading	MaterialImported	0.00	27,400.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblTripsAndVMT	VendorTripNumber	103.00	48.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	263.00	123.00
tblTripsAndVMT	WorkerTripNumber	53.00	25.00
tblVehicleEF	HHD	0.62	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	2.47	6.32
tblVehicleEF	HHD	1.15	0.58
tblVehicleEF	HHD	3.30	9.3040e-003
tblVehicleEF	HHD	4,690.45	1,186.71
tblVehicleEF	HHD	1,639.83	1,477.44
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	20.39	6.38
tblVehicleEF	HHD	3.81	3.57
tblVehicleEF	HHD	19.54	2.07
tblVehicleEF	HHD	0.01	3.9310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.7610e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.6800e-004
tblVehicleEF	HHD	0.62	0.46
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.9500e-004	1.4610e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.6800e-004
tblVehicleEF	HHD	0.72	0.53
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.9500e-004	1.4610e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.80	6.18
tblVehicleEF	HHD	1.16	0.58
tblVehicleEF	HHD	3.13	8.8350e-003
tblVehicleEF	HHD	4,968.94	1,182.90

tblVehicleEF	HHD	1,639.83	1,477.44
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	21.04	6.19
tblVehicleEF	HHD	3.60	3.38
tblVehicleEF	HHD	19.53	2.07
tblVehicleEF	HHD	0.01	3.4390e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.2910e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.7300e-004
tblVehicleEF	HHD	0.58	0.48
tblVehicleEF	HHD	1.1400e-004	7.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.8400e-004	1.4410e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.5700e-004	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.7300e-004

tblVehicleEF	HHD	0.68	0.55
tblVehicleEF	HHD	1.1400e-004	7.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.8400e-004	1.4410e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.67	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	3.41	6.51
tblVehicleEF	HHD	1.15	0.57
tblVehicleEF	HHD	3.33	9.3940e-003
tblVehicleEF	HHD	4,305.87	1,191.98
tblVehicleEF	HHD	1,639.83	1,477.44
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	19.48	6.64
tblVehicleEF	HHD	3.75	3.51
tblVehicleEF	HHD	19.55	2.07
tblVehicleEF	HHD	0.02	4.6110e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.02	4.4110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006

tblVehicleEF	HHD	1.0300e-004	7.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.0500e-004
tblVehicleEF	HHD	0.66	0.43
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.2900e-004	1.5510e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	7.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.0500e-004
tblVehicleEF	HHD	0.78	0.50
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	4.2900e-004	1.5510e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	LDA	5.3420e-003	3.0340e-003
tblVehicleEF	LDA	5.4040e-003	0.05
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	1.15	2.10
tblVehicleEF	LDA	274.33	270.89
tblVehicleEF	LDA	57.08	53.31
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003

tblVehicleEF	LDA	2.0000e-003	1.6540e-003
tblVehicleEF	LDA	2.0830e-003	1.6910e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.7480e-003	2.6800e-003
tblVehicleEF	LDA	5.9000e-004	5.2800e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	5.6740e-003	3.2480e-003
tblVehicleEF	LDA	4.8010e-003	0.04
tblVehicleEF	LDA	0.72	0.79
tblVehicleEF	LDA	0.98	1.79
tblVehicleEF	LDA	287.10	283.19
tblVehicleEF	LDA	57.08	52.73
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003
tblVehicleEF	LDA	2.0000e-003	1.6540e-003

tblVehicleEF	LDA	2.0830e-003	1.6910e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.8760e-003	2.8020e-003
tblVehicleEF	LDA	5.8700e-004	5.2200e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.2330e-003	2.9680e-003
tblVehicleEF	LDA	5.5300e-003	0.05
tblVehicleEF	LDA	0.63	0.69
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	269.66	266.39
tblVehicleEF	LDA	57.08	53.43
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003
tblVehicleEF	LDA	2.0000e-003	1.6540e-003
tblVehicleEF	LDA	2.0830e-003	1.6910e-003

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.7010e-003	2.6350e-003
tblVehicleEF	LDA	5.9100e-004	5.2900e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.02	7.7890e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.68	1.46
tblVehicleEF	LDT1	2.78	2.27
tblVehicleEF	LDT1	341.15	318.65
tblVehicleEF	LDT1	69.44	63.32
tblVehicleEF	LDT1	0.16	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13

tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	3.4330e-003	3.1530e-003
tblVehicleEF	LDT1	7.4300e-004	6.2700e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.2630e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.59
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	331.08
tblVehicleEF	LDT1	69.44	62.64
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21

tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.5840e-003	3.2760e-003
tblVehicleEF	LDT1	7.3600e-004	6.2000e-004
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.02	7.6410e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	314.09
tblVehicleEF	LDT1	69.44	63.47
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.20	0.37
tblVehicleEF	LDT1	3.3780e-003	3.1080e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9910e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	341.38
tblVehicleEF	LDT2	78.07	68.34
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3770e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.3200e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	353.53
tblVehicleEF	LDT2	78.07	67.60
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38

tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	3.9980e-003	3.4980e-003
tblVehicleEF	LDT2	8.0000e-004	6.6900e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8890e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
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tblVehicleEF	LDT2	78.07	68.50
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.29
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32

tblVehicleEF	LDT2	3.7630e-003	3.3330e-003
tblVehicleEF	LDT2	8.0400e-004	6.7800e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.5830e-003
tblVehicleEF	LHD1	0.01	5.7240e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.21
tblVehicleEF	LHD1	33.34	12.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.65
tblVehicleEF	LHD1	1.01	0.33
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003

tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8500e-004	1.2300e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.5950e-003
tblVehicleEF	LHD1	0.01	5.8420e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.67
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.23
tblVehicleEF	LHD1	33.34	12.33

tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5070e-003
tblVehicleEF	LHD1	3.8300e-004	1.2200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.54

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.5970e-003	5.5810e-003
tblVehicleEF	LHD1	0.01	5.6940e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.65
tblVehicleEF	LHD1	2.81	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.20
tblVehicleEF	LHD1	33.34	12.44
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.94	0.64
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8600e-004	1.2300e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9120e-003
tblVehicleEF	LHD2	4.2980e-003	3.9650e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.76
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.56
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.65	0.84
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004

tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9200e-003
tblVehicleEF	LHD2	4.3570e-003	4.0120e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.73

tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.36
tblVehicleEF	LHD2	27.88	9.50
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.61	0.79
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0300e-004	9.4000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9100e-003
tblVehicleEF	LHD2	4.2820e-003	3.9540e-003
tblVehicleEF	LHD2	8.5780e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.38	0.77
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.57
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.64	0.82
tblVehicleEF	LHD2	0.56	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.94	19.19
tblVehicleEF	MCY	9.66	8.53
tblVehicleEF	MCY	188.92	223.45
tblVehicleEF	MCY	44.52	59.65
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.06	1.09

tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.05	1.82
tblVehicleEF	MCY	2.2780e-003	2.2110e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.47
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.09
tblVehicleEF	MCY	44.52	57.74
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73

tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.1980e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.29
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.65
tblVehicleEF	MCY	44.52	59.99
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64

tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2130e-003
tblVehicleEF	MCY	6.6700e-004	5.9400e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.11
tblVehicleEF	MDV	512.22	419.24
tblVehicleEF	MDV	103.14	83.18
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03

tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1450e-003
tblVehicleEF	MDV	1.0750e-003	8.2300e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9930e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.33
tblVehicleEF	MDV	2.12	2.64
tblVehicleEF	MDV	534.67	432.09
tblVehicleEF	MDV	103.14	82.28
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40

tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	5.3570e-003	4.2720e-003
tblVehicleEF	MDV	1.0680e-003	8.1400e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4430e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	414.54
tblVehicleEF	MDV	103.14	83.37
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41

tblVehicleEF	MDV	5.0480e-003	4.0980e-003
tblVehicleEF	MDV	1.0760e-003	8.2500e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.21
tblVehicleEF	MH	5.78	2.15
tblVehicleEF	MH	1,130.03	1,501.21
tblVehicleEF	MH	60.43	19.42
tblVehicleEF	MH	1.08	1.11
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.46

tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0500e-004	1.9200e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.30	1.24
tblVehicleEF	MH	5.44	2.03
tblVehicleEF	MH	1,130.03	1,501.27
tblVehicleEF	MH	60.43	19.21
tblVehicleEF	MH	0.99	1.03
tblVehicleEF	MH	0.76	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.09	0.06

tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9900e-004	1.9000e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.22	1.20
tblVehicleEF	MH	5.83	2.18
tblVehicleEF	MH	1,130.03	1,501.20
tblVehicleEF	MH	60.43	19.45
tblVehicleEF	MH	1.06	1.09
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36

tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0600e-004	1.9300e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MHD	0.02	4.3860e-003
tblVehicleEF	MHD	4.8560e-003	4.5970e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.14	1.42
tblVehicleEF	MHD	132.92	67.37
tblVehicleEF	MHD	1,150.98	1,069.65
tblVehicleEF	MHD	63.58	12.05
tblVehicleEF	MHD	0.49	0.48
tblVehicleEF	MHD	1.14	1.63
tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0770e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.3800e-004	1.0300e-003

tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.1900e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1570e-003
tblVehicleEF	MHD	4.9280e-003	4.6490e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	0.38	0.48
tblVehicleEF	MHD	5.83	1.35
tblVehicleEF	MHD	140.78	68.19
tblVehicleEF	MHD	1,150.98	1,069.66

tblVehicleEF	MHD	63.58	11.93
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.29
tblVehicleEF	MHD	2.0900e-004	9.1000e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.0000e-004	8.7100e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1800e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07

tblVehicleEF	MHD	0.02	4.7150e-003
tblVehicleEF	MHD	4.8360e-003	4.5810e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.52	0.49
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.20	1.44
tblVehicleEF	MHD	122.05	66.24
tblVehicleEF	MHD	1,150.98	1,069.64
tblVehicleEF	MHD	63.58	12.07
tblVehicleEF	MHD	0.47	0.48
tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3060e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.8900e-004	1.2500e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	7.4400e-004	1.1900e-004
tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.41	0.07
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tblVehicleEF	OBUS	7.7220e-003	7.0170e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.79
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tblVehicleEF	OBUS	112.13	94.60
tblVehicleEF	OBUS	1,260.49	1,392.48
tblVehicleEF	OBUS	67.92	19.23
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tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.76
tblVehicleEF	OBUS	1.1400e-004	7.9300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5900e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	9.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5410e-003
tblVehicleEF	OBUS	7.8490e-003	7.1420e-003
tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	0.54	0.80
tblVehicleEF	OBUS	5.11	2.26
tblVehicleEF	OBUS	117.81	94.47
tblVehicleEF	OBUS	1,260.49	1,392.51
tblVehicleEF	OBUS	67.92	19.00
tblVehicleEF	OBUS	0.53	0.45
tblVehicleEF	OBUS	1.46	1.47

tblVehicleEF	OBUS	2.57	0.75
tblVehicleEF	OBUS	9.6000e-005	6.7400e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4180e-003
tblVehicleEF	OBUS	7.6880e-003	6.9830e-003
tblVehicleEF	OBUS	0.03	0.02

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tblVehicleEF	OBUS	1,260.49	1,392.48
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tblVehicleEF	OBUS	1.52	1.54
tblVehicleEF	OBUS	2.61	0.76
tblVehicleEF	OBUS	1.3900e-004	9.5800e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1600e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	9.0200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.84	0.07
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	8.9370e-003	3.9440e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
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tblVehicleEF	SBUS	3.3650e-003	9.0700e-004
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tblVehicleEF	SBUS	1.7650e-003	4.8200e-004
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tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1350e-003
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tblVehicleEF	SBUS	1,079.30	1,109.69
tblVehicleEF	SBUS	55.06	4.98
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	7.5340e-003	3.3320e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
tblVehicleEF	SBUS	0.97	0.32
tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
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tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.03
tblVehicleEF	SBUS	0.01	3.4310e-003
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tblVehicleEF	SBUS	6.5400e-004	4.9000e-005
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tblVehicleEF	SBUS	0.03	7.9970e-003
tblVehicleEF	SBUS	1.40	0.45
tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.11
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tblVehicleEF	SBUS	0.37	0.03
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tblVehicleEF	SBUS	0.01	7.0360e-003

tblVehicleEF	SBUS	0.07	6.3620e-003
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	0.01	4.7890e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	3.4320e-003	9.2000e-004
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tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2500e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.8100e-004	5.2000e-005
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tblVehicleEF	UBUS	0.05	0.01
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tblVehicleEF	UBUS	1,968.89	1,988.80
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tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
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tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004

tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.5580e-003
tblVehicleEF	UBUS	1.1250e-003	8.4000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
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tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.07
tblVehicleEF	UBUS	7.69	0.62
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.38
tblVehicleEF	UBUS	9.41	0.48
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005

tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
tblVehicleEF	UBUS	0.07	8.7350e-003
tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	0.86	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.5580e-003
tblVehicleEF	UBUS	1.1050e-003	8.3000e-005
tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
tblVehicleEF	UBUS	0.07	8.7350e-003
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tblVehicleEF	UBUS	3.57	5.92
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
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tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.56
tblVehicleEF	UBUS	9.79	0.48
tblVehicleEF	UBUS	15.38	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03

tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.5580e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	3.55	5.92
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	CC_TL	8.40	6.66
tblVehicleTrips	CNW_TL	6.90	5.47
tblVehicleTrips	CW_TL	16.60	13.16
tblVehicleTrips	ST_TR	1.50	1.74
tblVehicleTrips	SU_TR	1.50	1.74
tblVehicleTrips	WD_TR	1.50	1.74

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.3888	33.2554	22.3547	0.0405	0.1677	1.6601	1.8278	0.0445	1.5431	1.5876	0.0000	3,913.8180	3,913.8180	1.0632	0.0000	3,940.3976
2021	64.5821	89.8112	58.0632	0.1734	11.9547	3.0387	14.9933	4.4778	2.8177	7.2955	0.0000	17,598.7557	17,598.7557	3.0836	0.0000	17,675.8469
Maximum	**64.5821**	**89.8112**	**58.0632**	**0.1734**	**11.9547**	**3.0387**	**14.9933**	**4.4778**	**2.8177**	**7.2955**	**0.0000**	**17,598.7557**	**17,598.7557**	**3.0836**	**0.0000**	**17,675.8469**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.3888	33.2554	22.3547	0.0405	0.1677	1.6601	1.8278	0.0445	1.5431	1.5876	0.0000	3,913.8180	3,913.8180	1.0632	0.0000	3,940.3976
2021	64.5821	89.8112	58.0632	0.1734	7.1456	3.0387	10.1842	2.4939	2.8177	5.3115	0.0000	17,598.7557	17,598.7557	3.0836	0.0000	17,675.8469
Maximum	**64.5821**	**89.8112**	**58.0632**	**0.1734**	**7.1456**	**3.0387**	**10.1842**	**2.4939**	**2.8177**	**5.3115**	**0.0000**	**17,598.7557**	**17,598.7557**	**3.0836**	**0.0000**	**17,675.8469**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**39.67**	**0.00**	**28.59**	**43.87**	**0.00**	**22.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Energy	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001
Mobile	1.3631	3.0553	14.0062	0.0398	3.7860	0.0402	3.8262	1.0111	0.0377	1.0488		4,120.1008	4,120.1008	0.2942		4,127.4560
Total	**8.1763**	**4.4775**	**15.2704**	**0.0484**	**3.7860**	**0.1485**	**3.9345**	**1.0111**	**0.1460**	**1.1571**		**5,826.1138**	**5,826.1138**	**0.3273**	**0.0313**	**5,843.6160**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Energy	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
Mobile	1.3631	3.0553	14.0062	0.0398	3.7860	0.0402	3.8262	1.0111	0.0377	1.0488		4,120.1008	4,120.1008	0.2942		4,127.4560
Total	**8.1339**	**4.0916**	**14.9462**	**0.0460**	**3.7860**	**0.1191**	**3.9052**	**1.0111**	**0.1166**	**1.1278**		**5,362.9861**	**5,362.9861**	**0.3184**	**0.0228**	**5,377.7362**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.52**	**8.62**	**2.12**	**4.80**	**0.00**	**19.76**	**0.75**	**0.00**	**20.10**	**2.53**	**0.00**	**7.95**	**7.95**	**2.71**	**27.15**	**7.97**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/5/2020	12/31/2020	5	64	
2	Grading	Grading	1/1/2021	3/3/2021	5	44	
3	Building Construction	Building Construction	3/3/2021	12/28/2021	5	215	
4	Paving	Paving	9/1/2021	10/26/2021	5	40	
5	Architectural Coating	Architectural Coating	10/27/2021	12/27/2021	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 7.59

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 438,600; Non-Residential Outdoor: 146,200; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Panattoni Warehouse (only) Project - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	3,425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	123.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7438	0.0000	8.7438	3.6072	0.0000	3.6072			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600		1.9927	1.9927		1.8333	1.8333		5,807.7515	5,807.7515	1.8783		5,854.7102
Total	**4.1493**	**46.1422**	**29.8669**	**0.0600**	**8.7438**	**1.9927**	**10.7364**	**3.6072**	**1.8333**	**5.4404**		**5,807.7515**	**5,807.7515**	**1.8783**		**5,854.7102**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6647	21.1361	5.1915	0.0597	1.3611	0.0651	1.4261	0.3731	0.0622	0.4353		6,474.6753	6,474.6753	0.4629		6,486.2479
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.7362**	**21.1850**	**5.7438**	**0.0613**	**1.5287**	**0.0664**	**1.5952**	**0.4176**	**0.0635**	**0.4811**		**6,635.5129**	**6,635.5129**	**0.4676**		**6,647.2039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9347	0.0000	3.9347	1.6232	0.0000	1.6232			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600		1.9927	1.9927		1.8333	1.8333	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102
Total	**4.1493**	**46.1422**	**29.8669**	**0.0600**	**3.9347**	**1.9927**	**5.9274**	**1.6232**	**1.8333**	**3.4565**	**0.0000**	**5,807.7515**	**5,807.7515**	**1.8783**		**5,854.7102**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6647	21.1361	5.1915	0.0597	1.3611	0.0651	1.4261	0.3731	0.0622	0.4353		6,474.6753	6,474.6753	0.4629		6,486.2479
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.7362**	**21.1850**	**5.7438**	**0.0613**	**1.5287**	**0.0664**	**1.5952**	**0.4176**	**0.0635**	**0.4811**		**6,635.5129**	**6,635.5129**	**0.4676**		**6,647.2039**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1532	4.6507	1.3477	0.0120	0.3073	9.8300e-003	0.3171	0.0885	9.4100e-003	0.0979		1,283.2585	1,283.2585	0.0828		1,285.3296
Worker	0.5865	0.4012	4.5296	0.0132	1.3749	0.0111	1.3860	0.3646	0.0102	0.3749		1,318.8688	1,318.8688	0.0388		1,319.8391
Total	**0.7397**	**5.0518**	**5.8772**	**0.0253**	**1.6822**	**0.0209**	**1.7031**	**0.4531**	**0.0196**	**0.4727**		**2,602.1274**	**2,602.1274**	**0.1217**		**2,605.1687**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1532	4.6507	1.3477	0.0120	0.3073	9.8300e-003	0.3171	0.0885	9.4100e-003	0.0979		1,283.2585	1,283.2585	0.0828		1,285.3296
Worker	0.5865	0.4012	4.5296	0.0132	1.3749	0.0111	1.3860	0.3646	0.0102	0.3749		1,318.8688	1,318.8688	0.0388		1,319.8391
Total	**0.7397**	**5.0518**	**5.8772**	**0.0253**	**1.6822**	**0.0209**	**1.7031**	**0.4531**	**0.0196**	**0.4727**		**2,602.1274**	**2,602.1274**	**0.1217**		**2,605.1687**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7527**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7527**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**61.8223**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1192	0.0815	0.9206	2.6900e-003	0.2794	2.2600e-003	0.2817	0.0741	2.0800e-003	0.0762		268.0628	268.0628	7.8900e-003		268.2600
Total	**0.1192**	**0.0815**	**0.9206**	**2.6900e-003**	**0.2794**	**2.2600e-003**	**0.2817**	**0.0741**	**2.0800e-003**	**0.0762**		**268.0628**	**268.0628**	**7.8900e-003**		**268.2600**

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	61.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**61.8223**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1192	0.0815	0.9206	2.6900e-003	0.2794	2.2600e-003	0.2817	0.0741	2.0800e-003	0.0762		268.0628	268.0628	7.8900e-003		268.2600
Total	**0.1192**	**0.0815**	**0.9206**	**2.6900e-003**	**0.2794**	**2.2600e-003**	**0.2817**	**0.0741**	**2.0800e-003**	**0.0762**		**268.0628**	**268.0628**	**7.8900e-003**		**268.2600**

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	1.3631	3.0553	14.0062	0.0398	3.7860	0.0402	3.8262	1.0111	0.0377	1.0488		4,120.1008	4,120.1008	0.2942		4,127.4560
Unmitigated	1.3631	3.0553	14.0062	0.0398	3.7860	0.0402	3.8262	1.0111	0.0377	1.0488		4,120.1008	4,120.1008	0.2942		4,127.4560

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	508.78	508.78	508.78	1,786,262	1,786,262
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	508.78	508.78	508.78	1,786,262	1,786,262

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	13.16	6.66	5.47	59.00	28.00	13.00	92	5	3
Other 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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
NaturalGas Unmitigated	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	14499.8	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1564**	**1.4216**	**1.1941**	**8.5300e-003**		**0.1080**	**0.1080**		**0.1080**	**0.1080**		**1,705.8630**	**1,705.8630**	**0.0327**	**0.0313**	**1,716.0001**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	10.5633	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1139**	**1.0356**	**0.8699**	**6.2100e-003**		**0.0787**	**0.0787**		**0.0787**	**0.0787**		**1,242.7353**	**1,242.7353**	**0.0238**	**0.0228**	**1,250.1203**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Unmitigated	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599

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	0.7426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Total	**6.6569**	**6.4000e-004**	**0.0701**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1500**	**0.1500**	**4.0000e-004**		**0.1599**

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	0.7426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Total	**6.6569**	**6.4000e-004**	**0.0701**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1500**	**0.1500**	**4.0000e-004**		**0.1599**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Panattoni Warehouse + Manufacturing Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	165.20	1000sqft	3.79	165,200.00	0
Manufacturing	127.20	1000sqft	2.92	127,200.00	0
Other Asphalt Surfaces	4.09	Acre	4.09	178,160.40	0
Parking Lot	389.00	Space	3.50	155,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2018 Sustainability report pg10 https://www.edison.com/content/dam/eix/documents/sustainability/eix-2018-sustainability-report.pdf

Land Use -

Construction Phase - Anticipated Construction Schedule

Grading - Per Conceptual Grading Plan.

Vehicle Trips - Per the ITE Trip Gen Manual 10th Edition, 2017.

Calculated trip lengths are based off the anticipated yearly VMT from the Pehr & Fehr VMT Memo. The project would have approximately 5,681 daily VMT's.

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 requirements.

Water Mitigation - 2019 Title 24 and CalGreen Code Requirements.

Waste Mitigation - AB 341 requirements

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	20,026.00	0.00
tblAreaCoating	Area_Parking	20026	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	300.00	215.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	30.00	44.00
tblConstructionPhase	NumDays	20.00	40.00

tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblGrading	MaterialImported	0.00	27,400.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblTripsAndVMT	VendorTripNumber	103.00	48.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	263.00	123.00
tblTripsAndVMT	WorkerTripNumber	53.00	25.00
tblVehicleEF	HHD	0.62	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	2.47	6.32
tblVehicleEF	HHD	1.15	0.58
tblVehicleEF	HHD	3.30	9.3040e-003
tblVehicleEF	HHD	4,690.45	1,186.71
tblVehicleEF	HHD	1,639.83	1,477.44
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	20.39	6.38
tblVehicleEF	HHD	3.81	3.57
tblVehicleEF	HHD	19.54	2.07
tblVehicleEF	HHD	0.01	3.9310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.7610e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.6800e-004
tblVehicleEF	HHD	0.62	0.46
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.9500e-004	1.4610e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	7.0000e-006
tblVehicleEF	HHD	4.6110e-003	2.6800e-004
tblVehicleEF	HHD	0.72	0.53
tblVehicleEF	HHD	7.9000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.9500e-004	1.4610e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.80	6.18
tblVehicleEF	HHD	1.16	0.58
tblVehicleEF	HHD	3.13	8.8350e-003
tblVehicleEF	HHD	4,968.94	1,182.90
tblVehicleEF	HHD	1,639.83	1,477.44

tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	21.04	6.19
tblVehicleEF	HHD	3.60	3.38
tblVehicleEF	HHD	19.53	2.07
tblVehicleEF	HHD	0.01	3.4390e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.01	3.2910e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.7300e-004
tblVehicleEF	HHD	0.58	0.48
tblVehicleEF	HHD	1.1400e-004	7.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	3.8400e-004	1.4410e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.5700e-004	1.0000e-006
tblVehicleEF	HHD	1.6000e-004	1.1000e-005
tblVehicleEF	HHD	4.7280e-003	2.7300e-004
tblVehicleEF	HHD	0.68	0.55

tblVehicleEF	HHD	1.1400e-004	7.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	3.8400e-004	1.4410e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.67	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	1.0000e-006
tblVehicleEF	HHD	3.41	6.51
tblVehicleEF	HHD	1.15	0.57
tblVehicleEF	HHD	3.33	9.3940e-003
tblVehicleEF	HHD	4,305.87	1,191.98
tblVehicleEF	HHD	1,639.83	1,477.44
tblVehicleEF	HHD	10.54	0.09
tblVehicleEF	HHD	19.48	6.64
tblVehicleEF	HHD	3.75	3.51
tblVehicleEF	HHD	19.55	2.07
tblVehicleEF	HHD	0.02	4.6110e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.02	4.4110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8380e-003	8.8970e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	8.0000e-005	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	7.0000e-006

tblVehicleEF	HHD	4.9260e-003	3.0500e-004
tblVehicleEF	HHD	0.66	0.43
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.2900e-004	1.5510e-003
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.0300e-004	7.0000e-006
tblVehicleEF	HHD	4.9260e-003	3.0500e-004
tblVehicleEF	HHD	0.78	0.50
tblVehicleEF	HHD	7.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.25	0.17
tblVehicleEF	HHD	4.2900e-004	1.5510e-003
tblVehicleEF	HHD	0.09	3.0000e-006
tblVehicleEF	LDA	5.3420e-003	3.0340e-003
tblVehicleEF	LDA	5.4040e-003	0.05
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	1.15	2.10
tblVehicleEF	LDA	274.33	270.89
tblVehicleEF	LDA	57.08	53.31
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003
tblVehicleEF	LDA	2.0000e-003	1.6540e-003

tblVehicleEF	LDA	2.0830e-003	1.6910e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.7480e-003	2.6800e-003
tblVehicleEF	LDA	5.9000e-004	5.2800e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	5.6740e-003	3.2480e-003
tblVehicleEF	LDA	4.8010e-003	0.04
tblVehicleEF	LDA	0.72	0.79
tblVehicleEF	LDA	0.98	1.79
tblVehicleEF	LDA	287.10	283.19
tblVehicleEF	LDA	57.08	52.73
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003
tblVehicleEF	LDA	2.0000e-003	1.6540e-003
tblVehicleEF	LDA	2.0830e-003	1.6910e-003

tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.8760e-003	2.8020e-003
tblVehicleEF	LDA	5.8700e-004	5.2200e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.2330e-003	2.9680e-003
tblVehicleEF	LDA	5.5300e-003	0.05
tblVehicleEF	LDA	0.63	0.69
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	269.66	266.39
tblVehicleEF	LDA	57.08	53.43
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	2.1700e-003	1.7960e-003
tblVehicleEF	LDA	2.2660e-003	1.8390e-003
tblVehicleEF	LDA	2.0000e-003	1.6540e-003
tblVehicleEF	LDA	2.0830e-003	1.6910e-003
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.7010e-003	2.6350e-003
tblVehicleEF	LDA	5.9100e-004	5.2900e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.02	7.7890e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.68	1.46
tblVehicleEF	LDT1	2.78	2.27
tblVehicleEF	LDT1	341.15	318.65
tblVehicleEF	LDT1	69.44	63.32
tblVehicleEF	LDT1	0.16	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20

tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	3.4330e-003	3.1530e-003
tblVehicleEF	LDT1	7.4300e-004	6.2700e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.26	0.20
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.2630e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.59
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	331.08
tblVehicleEF	LDT1	69.44	62.64
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.5840e-003	3.2760e-003
tblVehicleEF	LDT1	7.3600e-004	6.2000e-004
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.02	7.6410e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	314.09
tblVehicleEF	LDT1	69.44	63.47
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.04	0.03

tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.20	0.37
tblVehicleEF	LDT1	3.3780e-003	3.1080e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9910e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	341.38
tblVehicleEF	LDT2	78.07	68.34
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3770e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.3200e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	353.53
tblVehicleEF	LDT2	78.07	67.60
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.28

tblVehicleEF	LDT2	3.9980e-003	3.4980e-003
tblVehicleEF	LDT2	8.0000e-004	6.6900e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8890e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
tblVehicleEF	LDT2	1.39	2.74
tblVehicleEF	LDT2	375.62	336.92
tblVehicleEF	LDT2	78.07	68.50
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.29
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	3.7630e-003	3.3330e-003

tblVehicleEF	LDT2	8.0400e-004	6.7800e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.5830e-003
tblVehicleEF	LHD1	0.01	5.7240e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.21
tblVehicleEF	LHD1	33.34	12.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.65
tblVehicleEF	LHD1	1.01	0.33
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004

tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8500e-004	1.2300e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.5950e-003
tblVehicleEF	LHD1	0.01	5.8420e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.67
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.23
tblVehicleEF	LHD1	33.34	12.33
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5070e-003
tblVehicleEF	LHD1	3.8300e-004	1.2200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.28	0.08

tblVehicleEF	LHD1	5.5970e-003	5.5810e-003
tblVehicleEF	LHD1	0.01	5.6940e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.65
tblVehicleEF	LHD1	2.81	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.20
tblVehicleEF	LHD1	33.34	12.44
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.94	0.64
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.27	0.08

tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8600e-004	1.2300e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9120e-003
tblVehicleEF	LHD2	4.2980e-003	3.9650e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.76
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.56
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.65	0.84
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003

tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9200e-003
tblVehicleEF	LHD2	4.3570e-003	4.0120e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.73
tblVehicleEF	LHD2	13.57	13.45

tblVehicleEF	LHD2	617.83	667.36
tblVehicleEF	LHD2	27.88	9.50
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.61	0.79
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0300e-004	9.4000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003

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tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9100e-003
tblVehicleEF	LHD2	4.2820e-003	3.9540e-003
tblVehicleEF	LHD2	8.5780e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.38	0.77
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.57
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.64	0.82
tblVehicleEF	LHD2	0.56	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004

tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.94	19.19
tblVehicleEF	MCY	9.66	8.53
tblVehicleEF	MCY	188.92	223.45
tblVehicleEF	MCY	44.52	59.65
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66

tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.05	1.82
tblVehicleEF	MCY	2.2780e-003	2.2110e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.47
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.09
tblVehicleEF	MCY	44.52	57.74
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10

tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.1980e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.29
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.65
tblVehicleEF	MCY	44.52	59.99
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	2.61	2.62

tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2130e-003
tblVehicleEF	MCY	6.6700e-004	5.9400e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.11
tblVehicleEF	MDV	512.22	419.24
tblVehicleEF	MDV	103.14	83.18
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.43

tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1450e-003
tblVehicleEF	MDV	1.0750e-003	8.2300e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9930e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.33
tblVehicleEF	MDV	2.12	2.64
tblVehicleEF	MDV	534.67	432.09
tblVehicleEF	MDV	103.14	82.28
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.17	0.36

tblVehicleEF	MDV	5.3570e-003	4.2720e-003
tblVehicleEF	MDV	1.0680e-003	8.1400e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4430e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	414.54
tblVehicleEF	MDV	103.14	83.37
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	5.0480e-003	4.0980e-003

tblVehicleEF	MDV	1.0760e-003	8.2500e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.21
tblVehicleEF	MH	5.78	2.15
tblVehicleEF	MH	1,130.03	1,501.21
tblVehicleEF	MH	60.43	19.42
tblVehicleEF	MH	1.08	1.11
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.33	0.10

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0500e-004	1.9200e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.30	1.24
tblVehicleEF	MH	5.44	2.03
tblVehicleEF	MH	1,130.03	1,501.27
tblVehicleEF	MH	60.43	19.21
tblVehicleEF	MH	0.99	1.03
tblVehicleEF	MH	0.76	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.43

tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9900e-004	1.9000e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.22	1.20
tblVehicleEF	MH	5.83	2.18
tblVehicleEF	MH	1,130.03	1,501.20
tblVehicleEF	MH	60.43	19.45
tblVehicleEF	MH	1.06	1.09
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36
tblVehicleEF	MH	0.08	0.06

tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0600e-004	1.9300e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MHD	0.02	4.3860e-003
tblVehicleEF	MHD	4.8560e-003	4.5970e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.14	1.42
tblVehicleEF	MHD	132.92	67.37
tblVehicleEF	MHD	1,150.98	1,069.65
tblVehicleEF	MHD	63.58	12.05
tblVehicleEF	MHD	0.49	0.48
tblVehicleEF	MHD	1.14	1.63
tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0770e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.3800e-004	1.0300e-003
tblVehicleEF	MHD	4.8830e-003	0.03

tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.1900e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1570e-003
tblVehicleEF	MHD	4.9280e-003	4.6490e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	0.38	0.48
tblVehicleEF	MHD	5.83	1.35
tblVehicleEF	MHD	140.78	68.19
tblVehicleEF	MHD	1,150.98	1,069.66
tblVehicleEF	MHD	63.58	11.93

tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.29
tblVehicleEF	MHD	2.0900e-004	9.1000e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.0000e-004	8.7100e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1800e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07
tblVehicleEF	MHD	0.02	4.7150e-003

tblVehicleEF	MHD	4.8360e-003	4.5810e-003
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tblVehicleEF	MHD	0.52	0.49
tblVehicleEF	MHD	0.37	0.47
tblVehicleEF	MHD	6.20	1.44
tblVehicleEF	MHD	122.05	66.24
tblVehicleEF	MHD	1,150.98	1,069.64
tblVehicleEF	MHD	63.58	12.07
tblVehicleEF	MHD	0.47	0.48
tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3060e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.8900e-004	1.2500e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4400e-004	1.1900e-004

tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.41	0.07
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tblVehicleEF	OBUS	7.7220e-003	7.0170e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.60
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tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.76
tblVehicleEF	OBUS	1.1400e-004	7.9300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5900e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	9.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5410e-003
tblVehicleEF	OBUS	7.8490e-003	7.1420e-003
tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	0.54	0.80
tblVehicleEF	OBUS	5.11	2.26
tblVehicleEF	OBUS	117.81	94.47
tblVehicleEF	OBUS	1,260.49	1,392.51
tblVehicleEF	OBUS	67.92	19.00
tblVehicleEF	OBUS	0.53	0.45
tblVehicleEF	OBUS	1.46	1.47
tblVehicleEF	OBUS	2.57	0.75

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tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8800e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4180e-003
tblVehicleEF	OBUS	7.6880e-003	6.9830e-003
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tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1600e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
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tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.06	0.06
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tblVehicleEF	OBUS	0.06	0.07

tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
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tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1350e-003
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tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	7.5340e-003	3.3320e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
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tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
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tblVehicleEF	SBUS	0.03	7.9970e-003
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tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
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tblVehicleEF	SBUS	0.37	0.03
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0360e-003
tblVehicleEF	SBUS	0.07	6.3620e-003

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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	0.01	4.7890e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	1.6940e-003	4.6300e-004
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tblVehicleEF	UBUS	1,968.89	1,988.80
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tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
tblVehicleEF	UBUS	0.85	0.08

tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.5580e-003
tblVehicleEF	UBUS	1.1250e-003	8.4000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
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tblVehicleEF	UBUS	0.02	0.05
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tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.07
tblVehicleEF	UBUS	7.69	0.62
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.38
tblVehicleEF	UBUS	9.41	0.48
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
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tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
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tblVehicleEF	UBUS	5.9080e-003	8.9300e-004

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tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.5580e-003
tblVehicleEF	UBUS	1.1050e-003	8.3000e-005
tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
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tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	3.57	5.92
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
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tblVehicleEF	UBUS	9.08	0.72
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.56
tblVehicleEF	UBUS	9.79	0.48
tblVehicleEF	UBUS	15.38	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003

tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.5580e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	3.55	5.92
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	CC_TL	8.40	4.98
tblVehicleTrips	CC_TL	8.40	4.98
tblVehicleTrips	CNW_TL	6.90	4.09
tblVehicleTrips	CNW_TL	6.90	4.09
tblVehicleTrips	CW_TL	16.60	9.85
tblVehicleTrips	CW_TL	16.60	9.85
tblVehicleTrips	ST_TR	1.50	1.74
tblVehicleTrips	ST_TR	1.49	3.93
tblVehicleTrips	SU_TR	1.50	1.74
tblVehicleTrips	SU_TR	0.62	3.93
tblVehicleTrips	WD_TR	1.50	1.74

tblVehicleTrips	WD_TR	3.82	3.93

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1082	1.0642	0.7159	1.3000e-003	5.2600e-003	0.0531	0.0584	1.4000e-003	0.0494	0.0508	0.0000	113.6980	113.6980	0.0309	0.0000	114.4697
2021	1.7832	4.2126	3.5652	8.9500e-003	0.4121	0.1663	0.5784	0.1387	0.1553	0.2941	0.0000	810.7499	810.7499	0.1320	0.0000	814.0488
Maximum	**1.7832**	**4.2126**	**3.5652**	**8.9500e-003**	**0.4121**	**0.1663**	**0.5784**	**0.1387**	**0.1553**	**0.2941**	**0.0000**	**810.7499**	**810.7499**	**0.1320**	**0.0000**	**814.0488**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1082	1.0642	0.7159	1.3000e-003	5.2600e-003	0.0531	0.0584	1.4000e-003	0.0494	0.0508	0.0000	113.6979	113.6979	0.0309	0.0000	114.4696
2021	1.7832	4.2126	3.5652	8.9500e-003	0.3063	0.1663	0.4726	0.0951	0.1553	0.2504	0.0000	810.7494	810.7494	0.1320	0.0000	814.0483
Maximum	**1.7832**	**4.2126**	**3.5652**	**8.9500e-003**	**0.3063**	**0.1663**	**0.4726**	**0.0951**	**0.1553**	**0.2504**	**0.0000**	**810.7494**	**810.7494**	**0.1320**	**0.0000**	**814.0483**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**25.35**	**0.00**	**16.62**	**31.15**	**0.00**	**12.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-5-2020**	**1-4-2021**	1.2548	1.2548
2	**1-5-2021**	**4-4-2021**	1.7918	1.7918
3	**4-5-2021**	**7-4-2021**	0.8134	0.8134
4	**7-5-2021**	**9-30-2021**	0.9450	0.9450
		Highest	1.7918	1.7918

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2145	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Energy	0.0285	0.2594	0.2179	1.5600e-003		0.0197	0.0197		0.0197	0.0197	0.0000	1,050.3346	1,050.3346	0.0488	0.0142	1,055.7746
Mobile	0.3402	0.6930	3.1910	8.5500e-003	0.7826	8.6000e-003	0.7912	0.2093	8.0600e-003	0.2174	0.0000	802.2371	802.2371	0.0602	0.0000	803.7420
Waste						0.0000	0.0000		0.0000	0.0000	73.6005	0.0000	73.6005	4.3497	0.0000	182.3420
Water						0.0000	0.0000		0.0000	0.0000	21.4519	204.8739	226.3258	2.2149	0.0544	297.9158
Total	**1.5832**	**0.9525**	**3.4177**	**0.0101**	**0.7826**	**0.0284**	**0.8109**	**0.2093**	**0.0278**	**0.2372**	**95.0524**	**2,057.4625**	**2,152.5149**	**6.6736**	**0.0686**	**2,339.7925**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2145	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Energy	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144	0.0000	918.5467	918.5467	0.0442	0.0121	923.2611
Mobile	0.3402	0.6930	3.1910	8.5500e-003	0.7826	8.6000e-003	0.7912	0.2093	8.0600e-003	0.2174	0.0000	802.2371	802.2371	0.0602	0.0000	803.7420
Waste						0.0000	0.0000		0.0000	0.0000	18.4001	0.0000	18.4001	1.0874	0.0000	45.5855
Water						0.0000	0.0000		0.0000	0.0000	17.1615	163.8991	181.0606	1.7719	0.0435	238.3326
Total	**1.5755**	**0.8820**	**3.3585**	**9.6800e-003**	**0.7826**	**0.0230**	**0.8056**	**0.2093**	**0.0225**	**0.2318**	**35.5617**	**1,884.6999**	**1,920.2615**	**2.9638**	**0.0557**	**2,010.9393**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.49**	**7.39**	**1.73**	**4.25**	**0.00**	**18.91**	**0.66**	**0.00**	**19.27**	**2.26**	**62.59**	**8.40**	**10.79**	**55.59**	**18.85**	**14.05**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/5/2020	12/31/2020	5	64	
2	Grading	Grading	1/1/2021	3/3/2021	5	44	
3	Building Construction	Building Construction	3/3/2021	12/28/2021	5	215	
4	Paving	Paving	9/1/2021	10/26/2021	5	40	
5	Architectural Coating	Architectural Coating	10/27/2021	12/27/2021	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 7.59

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 438,600; Non-Residential Outdoor: 146,200; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	3,425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	123.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1060	1.0624	0.6961	1.2400e-003		0.0531	0.0531		0.0493	0.0493	0.0000	108.7955	108.7955	0.0307	0.0000	109.5634
Total	**0.1060**	**1.0624**	**0.6961**	**1.2400e-003**		**0.0531**	**0.0531**		**0.0493**	**0.0493**	**0.0000**	**108.7955**	**108.7955**	**0.0307**	**0.0000**	**109.5634**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.7900e-003	0.0198	5.0000e-005	5.2600e-003	4.0000e-005	5.3000e-003	1.4000e-003	4.0000e-005	1.4400e-003	0.0000	4.9025	4.9025	1.5000e-004	0.0000	4.9064
Total	**2.2200e-003**	**1.7900e-003**	**0.0198**	**5.0000e-005**	**5.2600e-003**	**4.0000e-005**	**5.3000e-003**	**1.4000e-003**	**4.0000e-005**	**1.4400e-003**	**0.0000**	**4.9025**	**4.9025**	**1.5000e-004**	**0.0000**	**4.9064**

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	0.1060	1.0624	0.6961	1.2400e-003		0.0531	0.0531		0.0493	0.0493	0.0000	108.7954	108.7954	0.0307	0.0000	109.5632
Total	**0.1060**	**1.0624**	**0.6961**	**1.2400e-003**		**0.0531**	**0.0531**		**0.0493**	**0.0493**	**0.0000**	**108.7954**	**108.7954**	**0.0307**	**0.0000**	**109.5632**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.7900e-003	0.0198	5.0000e-005	5.2600e-003	4.0000e-005	5.3000e-003	1.4000e-003	4.0000e-005	1.4400e-003	0.0000	4.9025	4.9025	1.5000e-004	0.0000	4.9064
Total	**2.2200e-003**	**1.7900e-003**	**0.0198**	**5.0000e-005**	**5.2600e-003**	**4.0000e-005**	**5.3000e-003**	**1.4000e-003**	**4.0000e-005**	**1.4400e-003**	**0.0000**	**4.9025**	**4.9025**	**1.5000e-004**	**0.0000**	**4.9064**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1924	0.0000	0.1924	0.0794	0.0000	0.0794	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0913	1.0151	0.6571	1.3200e-003		0.0438	0.0438		0.0403	0.0403	0.0000	115.9115	115.9115	0.0375	0.0000	116.8487
Total	**0.0913**	**1.0151**	**0.6571**	**1.3200e-003**	**0.1924**	**0.0438**	**0.2362**	**0.0794**	**0.0403**	**0.1197**	**0.0000**	**115.9115**	**115.9115**	**0.0375**	**0.0000**	**116.8487**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0144	0.4741	0.1105	1.3300e-003	0.0294	1.4200e-003	0.0309	8.0800e-003	1.3600e-003	9.4400e-003	0.0000	130.5432	130.5432	9.0600e-003	0.0000	130.7698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	**0.0158**	**0.4752**	**0.1230**	**1.3700e-003**	**0.0331**	**1.4500e-003**	**0.0345**	**9.0400e-003**	**1.3900e-003**	**0.0104**	**0.0000**	**133.8067**	**133.8067**	**9.1600e-003**	**0.0000**	**134.0356**

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					0.0866	0.0000	0.0866	0.0357	0.0000	0.0357	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0913	1.0151	0.6571	1.3200e-003		0.0438	0.0438		0.0403	0.0403	0.0000	115.9113	115.9113	0.0375	0.0000	116.8485
Total	**0.0913**	**1.0151**	**0.6571**	**1.3200e-003**	**0.0866**	**0.0438**	**0.1304**	**0.0357**	**0.0403**	**0.0760**	**0.0000**	**115.9113**	**115.9113**	**0.0375**	**0.0000**	**116.8485**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0144	0.4741	0.1105	1.3300e-003	0.0294	1.4200e-003	0.0309	8.0800e-003	1.3600e-003	9.4400e-003	0.0000	130.5432	130.5432	9.0600e-003	0.0000	130.7698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
Total	**0.0158**	**0.4752**	**0.1230**	**1.3700e-003**	**0.0331**	**1.4500e-003**	**0.0345**	**9.0400e-003**	**1.3900e-003**	**0.0104**	**0.0000**	**133.8067**	**133.8067**	**9.1600e-003**	**0.0000**	**134.0356**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2044	1.8740	1.7818	2.8900e-003		0.1031	0.1031		0.0969	0.0969	0.0000	249.0101	249.0101	0.0601	0.0000	250.5120
Total	**0.2044**	**1.8740**	**1.7818**	**2.8900e-003**		**0.1031**	**0.1031**		**0.0969**	**0.0969**	**0.0000**	**249.0101**	**249.0101**	**0.0601**	**0.0000**	**250.5120**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0160	0.5092	0.1381	1.3100e-003	0.0325	1.0400e-003	0.0335	9.3800e-003	9.9000e-004	0.0104	0.0000	127.1922	127.1922	7.8000e-003	0.0000	127.3873
Worker	0.0569	0.0443	0.5000	1.4500e-003	0.1449	1.1900e-003	0.1461	0.0385	1.1000e-003	0.0396	0.0000	130.7596	130.7596	3.8500e-003	0.0000	130.8558
Total	**0.0729**	**0.5535**	**0.6381**	**2.7600e-003**	**0.1774**	**2.2300e-003**	**0.1796**	**0.0479**	**2.0900e-003**	**0.0500**	**0.0000**	**257.9518**	**257.9518**	**0.0117**	**0.0000**	**258.2430**

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	0.2044	1.8740	1.7818	2.8900e-003		0.1031	0.1031		0.0969	0.0969	0.0000	249.0098	249.0098	0.0601	0.0000	250.5117
Total	**0.2044**	**1.8740**	**1.7818**	**2.8900e-003**		**0.1031**	**0.1031**		**0.0969**	**0.0969**	**0.0000**	**249.0098**	**249.0098**	**0.0601**	**0.0000**	**250.5117**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0160	0.5092	0.1381	1.3100e-003	0.0325	1.0400e-003	0.0335	9.3800e-003	9.9000e-004	0.0104	0.0000	127.1922	127.1922	7.8000e-003	0.0000	127.3873
Worker	0.0569	0.0443	0.5000	1.4500e-003	0.1449	1.1900e-003	0.1461	0.0385	1.1000e-003	0.0396	0.0000	130.7596	130.7596	3.8500e-003	0.0000	130.8558
Total	**0.0729**	**0.5535**	**0.6381**	**2.7600e-003**	**0.1774**	**2.2300e-003**	**0.1796**	**0.0479**	**2.0900e-003**	**0.0500**	**0.0000**	**257.9518**	**257.9518**	**0.0117**	**0.0000**	**258.2430**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708
Paving	9.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0351**	**0.2584**	**0.2931**	**4.6000e-004**		**0.0136**	**0.0136**		**0.0125**	**0.0125**	**0.0000**	**40.0470**	**40.0470**	**0.0130**	**0.0000**	**40.3708**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	**1.2900e-003**	**1.0000e-003**	**0.0113**	**3.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3100e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9668**	**2.9668**	**9.0000e-005**	**0.0000**	**2.9689**

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	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707
Paving	9.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0351**	**0.2584**	**0.2931**	**4.6000e-004**		**0.0136**	**0.0136**		**0.0125**	**0.0125**	**0.0000**	**40.0469**	**40.0469**	**0.0130**	**0.0000**	**40.3707**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	**1.2900e-003**	**1.0000e-003**	**0.0113**	**3.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3100e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9668**	**2.9668**	**9.0000e-005**	**0.0000**	**2.9689**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3553					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8200e-003	0.0336	0.0400	7.0000e-005		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268
Total	**1.3601**	**0.0336**	**0.0400**	**7.0000e-005**		**2.0700e-003**	**2.0700e-003**		**2.0700e-003**	**2.0700e-003**	**0.0000**	**5.6172**	**5.6172**	**3.9000e-004**	**0.0000**	**5.6268**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3700e-003	1.8400e-003	0.0208	6.0000e-005	6.0300e-003	5.0000e-005	6.0800e-003	1.6000e-003	5.0000e-005	1.6500e-003	0.0000	5.4390	5.4390	1.6000e-004	0.0000	5.4431
Total	**2.3700e-003**	**1.8400e-003**	**0.0208**	**6.0000e-005**	**6.0300e-003**	**5.0000e-005**	**6.0800e-003**	**1.6000e-003**	**5.0000e-005**	**1.6500e-003**	**0.0000**	**5.4390**	**5.4390**	**1.6000e-004**	**0.0000**	**5.4431**

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	1.3553					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8200e-003	0.0336	0.0400	7.0000e-005		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268
Total	**1.3601**	**0.0336**	**0.0400**	**7.0000e-005**		**2.0700e-003**	**2.0700e-003**		**2.0700e-003**	**2.0700e-003**	**0.0000**	**5.6172**	**5.6172**	**3.9000e-004**	**0.0000**	**5.6268**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3700e-003	1.8400e-003	0.0208	6.0000e-005	6.0300e-003	5.0000e-005	6.0800e-003	1.6000e-003	5.0000e-005	1.6500e-003	0.0000	5.4390	5.4390	1.6000e-004	0.0000	5.4431
Total	**2.3700e-003**	**1.8400e-003**	**0.0208**	**6.0000e-005**	**6.0300e-003**	**5.0000e-005**	**6.0800e-003**	**1.6000e-003**	**5.0000e-005**	**1.6500e-003**	**0.0000**	**5.4390**	**5.4390**	**1.6000e-004**	**0.0000**	**5.4431**

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	0.3402	0.6930	3.1910	8.5500e-003	0.7826	8.6000e-003	0.7912	0.2093	8.0600e-003	0.2174	0.0000	802.2371	802.2371	0.0602	0.0000	803.7420
Unmitigated	0.3402	0.6930	3.1910	8.5500e-003	0.7826	8.6000e-003	0.7912	0.2093	8.0600e-003	0.2174	0.0000	802.2371	802.2371	0.0602	0.0000	803.7420

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	287.45	287.45	287.45	755,260	755,260
Manufacturing	499.90	499.90	499.90	1,313,460	1,313,460
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	787.34	787.34	787.34	2,068,719	2,068,719

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.85	4.98	4.09	59.00	28.00	13.00	92	5	3
Manufacturing	9.85	4.98	4.09	59.00	28.00	13.00	92	5	3
Other 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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Manufacturing	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	712.7979	712.7979	0.0403	8.3400e-003	716.2896
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	767.9098	767.9098	0.0434	8.9800e-003	771.6715
NaturalGas Mitigated	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144	0.0000	205.7488	205.7488	3.9400e-003	3.7700e-003	206.9714
NaturalGas Unmitigated	0.0285	0.2594	0.2179	1.5600e-003		0.0197	0.0197		0.0197	0.0197	0.0000	282.4248	282.4248	5.4100e-003	5.1800e-003	284.1031

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	2.99012e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5642	159.5642	3.0600e-003	2.9300e-003	160.5124
Manufacturing	2.30232e+006	0.0124	0.1129	0.0948	6.8000e-004		8.5800e-003	8.5800e-003		8.5800e-003	8.5800e-003	0.0000	122.8606	122.8606	2.3500e-003	2.2500e-003	123.5907
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0285**	**0.2594**	**0.2179**	**1.5600e-003**		**0.0197**	**0.0197**		**0.0197**	**0.0197**	**0.0000**	**282.4248**	**282.4248**	**5.4100e-003**	**5.1800e-003**	**284.1031**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	2.17833e+006	0.0118	0.1068	0.0897	6.4000e-004		8.1200e-003	8.1200e-003		8.1200e-003	8.1200e-003	0.0000	116.2438	116.2438	2.2300e-003	2.1300e-003	116.9346
Manufacturing	1.67726e+006	9.0400e-003	0.0822	0.0691	4.9000e-004		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	89.5049	89.5049	1.7200e-003	1.6400e-003	90.0368
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0208**	**0.1890**	**0.1588**	**1.1300e-003**		**0.0144**	**0.0144**		**0.0144**	**0.0144**	**0.0000**	**205.7488**	**205.7488**	**3.9500e-003**	**3.7700e-003**	**206.9714**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.83372e+006	426.6936	0.0241	4.9900e-003	428.7838
Manufacturing	1.41192e+006	328.5437	0.0186	3.8400e-003	330.1532
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	54460	12.6725	7.2000e-004	1.5000e-004	12.7345
Total		**767.9098**	**0.0434**	**8.9800e-003**	**771.6715**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.69991e+006	395.5565	0.0224	4.6300e-003	397.4942
Manufacturing	1.30889e+006	304.5689	0.0172	3.5600e-003	306.0609
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	54460	12.6725	7.2000e-004	1.5000e-004	12.7345
Total		**712.7979**	**0.0403**	**8.3400e-003**	**716.2896**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2145	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Unmitigated	1.2145	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181

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	0.1355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0782					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1000e-004	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Total	**1.2145**	**8.0000e-005**	**8.7600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0170**	**0.0170**	**4.0000e-005**	**0.0000**	**0.0181**

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	0.1355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0782					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.1000e-004	8.0000e-005	8.7600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0170	0.0170	4.0000e-005	0.0000	0.0181
Total	**1.2145**	**8.0000e-005**	**8.7600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0170**	**0.0170**	**4.0000e-005**	**0.0000**	**0.0181**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	181.0606	1.7719	0.0435	238.3326
Unmitigated	226.3258	2.2149	0.0544	297.9158

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	38.2025 / 0	127.8694	1.2514	0.0308	168.3163
Manufacturing	29.415 / 0	98.4564	0.9635	0.0237	129.5995
Other 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		**226.3258**	**2.2149**	**0.0544**	**297.9158**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	30.562 / 0	102.2955	1.0011	0.0246	134.6530
Manufacturing	23.532 / 0	78.7651	0.7708	0.0189	103.6796
Other 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		**181.0606**	**1.7719**	**0.0435**	**238.3326**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.4001	1.0874	0.0000	45.5855
Unmitigated	73.6005	4.3497	0.0000	182.3420

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	204.85	41.5827	2.4575	0.0000	103.0194
Manufacturing	157.73	32.0178	1.8922	0.0000	79.3227
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**73.6005**	**4.3497**	**0.0000**	**182.3420**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	51.2125	10.3957	0.6144	0.0000	25.7548
Manufacturing	39.4325	8.0044	0.4731	0.0000	19.8307
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**18.4001**	**1.0874**	**0.0000**	**45.5855**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Panattoni Warehouse + Manufacturing Project

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	165.20	1000sqft	3.79	165,200.00	0
Manufacturing	127.20	1000sqft	2.92	127,200.00	0
Other Asphalt Surfaces	4.09	Acre	4.09	178,160.40	0
Parking Lot	389.00	Space	3.50	155,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2018 Sustainability report pg10 https://www.edison.com/content/dam/eix/documents/sustainability/eix-2018-sustainability-report.pdf

Land Use -

Construction Phase - Anticipated Construction Schedule

Grading - Per Conceptual Grading Plan.

Vehicle Trips - Per the ITE Trip Gen Manual 10th Edition, 2017.

Calculated trip lengths are based off the anticipated yearly VMT from the Pehr & Fehr VMT Memo. The project would have approximately 5,681 daily VMT's.

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 requirements.

Water Mitigation - 2019 Title 24 and CalGreen Code Requirements.

Waste Mitigation - AB 341 requirements

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	20,026.00	0.00
tblAreaCoating	Area_Parking	20026	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	300.00	215.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	30.00	44.00
tblConstructionPhase	NumDays	20.00	40.00

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tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
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tblFleetMix	MDV	0.12	0.00
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tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
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tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	263.00	123.00
tblTripsAndVMT	WorkerTripNumber	53.00	25.00
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tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.70
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tblVehicleEF	LDT1	1.63	1.41
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tblVehicleEF	LDT1	335.69	314.09
tblVehicleEF	LDT1	69.44	63.47
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.04	0.03

tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.20	0.37
tblVehicleEF	LDT1	3.3780e-003	3.1080e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9910e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	341.38
tblVehicleEF	LDT2	78.07	68.34
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3770e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.3200e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	353.53
tblVehicleEF	LDT2	78.07	67.60
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.28

tblVehicleEF	LDT2	3.9980e-003	3.4980e-003
tblVehicleEF	LDT2	8.0000e-004	6.6900e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8890e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
tblVehicleEF	LDT2	1.39	2.74
tblVehicleEF	LDT2	375.62	336.92
tblVehicleEF	LDT2	78.07	68.50
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.29
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	3.7630e-003	3.3330e-003

tblVehicleEF	LDT2	8.0400e-004	6.7800e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.5830e-003
tblVehicleEF	LHD1	0.01	5.7240e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.21
tblVehicleEF	LHD1	33.34	12.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.65
tblVehicleEF	LHD1	1.01	0.33
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004

tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8500e-004	1.2300e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.5950e-003
tblVehicleEF	LHD1	0.01	5.8420e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.67
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.23
tblVehicleEF	LHD1	33.34	12.33
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5070e-003
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tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.28	0.08

tblVehicleEF	LHD1	5.5970e-003	5.5810e-003
tblVehicleEF	LHD1	0.01	5.6940e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.65
tblVehicleEF	LHD1	2.81	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.20
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tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.27	0.08

tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8600e-004	1.2300e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9120e-003
tblVehicleEF	LHD2	4.2980e-003	3.9650e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.76
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.56
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.65	0.84
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003

tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9200e-003
tblVehicleEF	LHD2	4.3570e-003	4.0120e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.73
tblVehicleEF	LHD2	13.57	13.45

tblVehicleEF	LHD2	617.83	667.36
tblVehicleEF	LHD2	27.88	9.50
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.61	0.79
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
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tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0300e-004	9.4000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9100e-003
tblVehicleEF	LHD2	4.2820e-003	3.9540e-003
tblVehicleEF	LHD2	8.5780e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.38	0.77
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.57
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.64	0.82
tblVehicleEF	LHD2	0.56	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004

tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.94	19.19
tblVehicleEF	MCY	9.66	8.53
tblVehicleEF	MCY	188.92	223.45
tblVehicleEF	MCY	44.52	59.65
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66

tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.05	1.82
tblVehicleEF	MCY	2.2780e-003	2.2110e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.47
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.09
tblVehicleEF	MCY	44.52	57.74
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10

tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.1980e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.29
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.65
tblVehicleEF	MCY	44.52	59.99
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	2.61	2.62

tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2130e-003
tblVehicleEF	MCY	6.6700e-004	5.9400e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.11
tblVehicleEF	MDV	512.22	419.24
tblVehicleEF	MDV	103.14	83.18
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.43

tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1450e-003
tblVehicleEF	MDV	1.0750e-003	8.2300e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9930e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.33
tblVehicleEF	MDV	2.12	2.64
tblVehicleEF	MDV	534.67	432.09
tblVehicleEF	MDV	103.14	82.28
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.17	0.36

tblVehicleEF	MDV	5.3570e-003	4.2720e-003
tblVehicleEF	MDV	1.0680e-003	8.1400e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4430e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	414.54
tblVehicleEF	MDV	103.14	83.37
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	5.0480e-003	4.0980e-003

tblVehicleEF	MDV	1.0760e-003	8.2500e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.21
tblVehicleEF	MH	5.78	2.15
tblVehicleEF	MH	1,130.03	1,501.21
tblVehicleEF	MH	60.43	19.42
tblVehicleEF	MH	1.08	1.11
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.33	0.10

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0500e-004	1.9200e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.30	1.24
tblVehicleEF	MH	5.44	2.03
tblVehicleEF	MH	1,130.03	1,501.27
tblVehicleEF	MH	60.43	19.21
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tblVehicleEF	MH	0.76	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.43

tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9900e-004	1.9000e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.22	1.20
tblVehicleEF	MH	5.83	2.18
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tblVehicleEF	MH	60.43	19.45
tblVehicleEF	MH	1.06	1.09
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36
tblVehicleEF	MH	0.08	0.06

tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0600e-004	1.9300e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MHD	0.02	4.3860e-003
tblVehicleEF	MHD	4.8560e-003	4.5970e-003
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tblVehicleEF	MHD	0.37	0.39
tblVehicleEF	MHD	0.37	0.47
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tblVehicleEF	MHD	9.96	1.29
tblVehicleEF	MHD	2.4800e-004	1.0770e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.3800e-004	1.0300e-003
tblVehicleEF	MHD	4.8830e-003	0.03

tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	MHD	1.2810e-003	6.4000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4300e-004	1.1900e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.41	0.07
tblVehicleEF	MHD	0.02	4.1570e-003
tblVehicleEF	MHD	4.9280e-003	4.6490e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.32
tblVehicleEF	MHD	0.38	0.48
tblVehicleEF	MHD	5.83	1.35
tblVehicleEF	MHD	140.78	68.19
tblVehicleEF	MHD	1,150.98	1,069.66
tblVehicleEF	MHD	63.58	11.93

tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.29
tblVehicleEF	MHD	2.0900e-004	9.1000e-004
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.0000e-004	8.7100e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
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tblVehicleEF	MHD	7.3800e-004	1.1800e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07
tblVehicleEF	MHD	0.02	4.7150e-003

tblVehicleEF	MHD	4.8360e-003	4.5810e-003
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tblVehicleEF	MHD	1,150.98	1,069.64
tblVehicleEF	MHD	63.58	12.07
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tblVehicleEF	MHD	1.12	1.60
tblVehicleEF	MHD	9.97	1.29
tblVehicleEF	MHD	3.0200e-004	1.3060e-003
tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.8900e-004	1.2500e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4400e-004	1.1900e-004

tblVehicleEF	MHD	1.1690e-003	6.8600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.41	0.07
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tblVehicleEF	OBUS	7.7220e-003	7.0170e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.79
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tblVehicleEF	OBUS	1,260.49	1,392.48
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tblVehicleEF	OBUS	1.55	1.57
tblVehicleEF	OBUS	2.60	0.76
tblVehicleEF	OBUS	1.1400e-004	7.9300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5900e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	9.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7400e-004	1.9000e-004
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tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5410e-003
tblVehicleEF	OBUS	7.8490e-003	7.1420e-003
tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	0.54	0.80
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tblVehicleEF	OBUS	1,260.49	1,392.51
tblVehicleEF	OBUS	67.92	19.00
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tblVehicleEF	OBUS	1.46	1.47
tblVehicleEF	OBUS	2.57	0.75

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tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	9.2000e-005	6.4500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	1.1360e-003	8.9900e-004
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tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
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tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
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tblVehicleEF	OBUS	2.61	0.76
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tblVehicleEF	OBUS	1.3300e-004	9.1600e-004
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tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	9.0200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07

tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0580e-003
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tblVehicleEF	SBUS	0.72	0.59
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tblVehicleEF	SBUS	1,079.30	1,109.67
tblVehicleEF	SBUS	55.06	5.24
tblVehicleEF	SBUS	9.20	3.22
tblVehicleEF	SBUS	4.17	4.87
tblVehicleEF	SBUS	12.12	0.88
tblVehicleEF	SBUS	9.3410e-003	4.1230e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	8.9370e-003	3.9440e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	3.3650e-003	9.0700e-004
tblVehicleEF	SBUS	0.03	7.8550e-003
tblVehicleEF	SBUS	0.97	0.32

tblVehicleEF	SBUS	1.7650e-003	4.8200e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3550e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7700e-004	5.2000e-005
tblVehicleEF	SBUS	3.3650e-003	9.0700e-004
tblVehicleEF	SBUS	0.03	7.8550e-003
tblVehicleEF	SBUS	1.40	0.46
tblVehicleEF	SBUS	1.7650e-003	4.8200e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1350e-003
tblVehicleEF	SBUS	0.06	5.5320e-003
tblVehicleEF	SBUS	8.04	2.74
tblVehicleEF	SBUS	0.73	0.60
tblVehicleEF	SBUS	5.94	0.69
tblVehicleEF	SBUS	1,171.46	359.77
tblVehicleEF	SBUS	1,079.30	1,109.69
tblVehicleEF	SBUS	55.06	4.98
tblVehicleEF	SBUS	9.50	3.29
tblVehicleEF	SBUS	3.93	4.59
tblVehicleEF	SBUS	12.09	0.87
tblVehicleEF	SBUS	7.8750e-003	3.4830e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	7.5340e-003	3.3320e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
tblVehicleEF	SBUS	0.97	0.32
tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.03
tblVehicleEF	SBUS	0.01	3.4310e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5400e-004	4.9000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
tblVehicleEF	SBUS	1.40	0.45
tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.03
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0360e-003
tblVehicleEF	SBUS	0.07	6.3620e-003

tblVehicleEF	SBUS	8.31	2.83
tblVehicleEF	SBUS	0.72	0.58
tblVehicleEF	SBUS	7.56	0.88
tblVehicleEF	SBUS	1,051.30	340.60
tblVehicleEF	SBUS	1,079.30	1,109.67
tblVehicleEF	SBUS	55.06	5.29
tblVehicleEF	SBUS	8.80	3.13
tblVehicleEF	SBUS	4.10	4.79
tblVehicleEF	SBUS	12.13	0.88
tblVehicleEF	SBUS	0.01	5.0060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	0.01	4.7890e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	3.4320e-003	9.2000e-004
tblVehicleEF	SBUS	0.03	8.2560e-003
tblVehicleEF	SBUS	0.98	0.32
tblVehicleEF	SBUS	1.6940e-003	4.6300e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2500e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8100e-004	5.2000e-005

tblVehicleEF	SBUS	3.4320e-003	9.2000e-004
tblVehicleEF	SBUS	0.03	8.2560e-003
tblVehicleEF	SBUS	1.41	0.46
tblVehicleEF	SBUS	1.6940e-003	4.6300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.43	0.04
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.22	45.07
tblVehicleEF	UBUS	8.87	0.71
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.53
tblVehicleEF	UBUS	9.98	0.48
tblVehicleEF	UBUS	15.36	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
tblVehicleEF	UBUS	0.85	0.08

tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.5580e-003
tblVehicleEF	UBUS	1.1250e-003	8.4000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
tblVehicleEF	UBUS	3.56	5.92
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.74	0.05
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.07
tblVehicleEF	UBUS	7.69	0.62
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.38
tblVehicleEF	UBUS	9.41	0.48
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	5.9080e-003	8.9300e-004

tblVehicleEF	UBUS	0.07	8.7350e-003
tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	0.86	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.5580e-003
tblVehicleEF	UBUS	1.1050e-003	8.3000e-005
tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
tblVehicleEF	UBUS	0.07	8.7350e-003
tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	3.57	5.92
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.21	45.07
tblVehicleEF	UBUS	9.08	0.72
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.56
tblVehicleEF	UBUS	9.79	0.48
tblVehicleEF	UBUS	15.38	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003

tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.5580e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	3.55	5.92
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	CC_TL	8.40	4.98
tblVehicleTrips	CC_TL	8.40	4.98
tblVehicleTrips	CNW_TL	6.90	4.09
tblVehicleTrips	CNW_TL	6.90	4.09
tblVehicleTrips	CW_TL	16.60	9.85
tblVehicleTrips	CW_TL	16.60	9.85
tblVehicleTrips	ST_TR	1.50	1.74
tblVehicleTrips	ST_TR	1.49	3.93
tblVehicleTrips	SU_TR	1.50	1.74
tblVehicleTrips	SU_TR	0.62	3.93
tblVehicleTrips	WD_TR	1.50	1.74

tblVehicleTrips	WD_TR	3.82	3.93

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.3812	33.2501	22.4100	0.0406	0.1677	1.6601	1.8278	0.0445	1.5431	1.5876	0.0000	3,924.1219	3,924.1219	1.0635	0.0000	3,950.7096
2021	64.5035	89.5215	58.1145	0.1757	11.9547	3.0374	14.9920	4.4778	2.8165	7.2943	0.0000	17,840.8596	17,840.8596	3.0655	0.0000	17,917.4980
Maximum	**64.5035**	**89.5215**	**58.1145**	**0.1757**	**11.9547**	**3.0374**	**14.9920**	**4.4778**	**2.8165**	**7.2943**	**0.0000**	**17,840.8596**	**17,840.8596**	**3.0655**	**0.0000**	**17,917.4980**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.3812	33.2501	22.4100	0.0406	0.1677	1.6601	1.8278	0.0445	1.5431	1.5876	0.0000	3,924.1219	3,924.1219	1.0635	0.0000	3,950.7096
2021	64.5035	89.5215	58.1145	0.1757	7.1456	3.0374	10.1830	2.4939	2.8165	5.3103	0.0000	17,840.8596	17,840.8596	3.0655	0.0000	17,917.4980
Maximum	**64.5035**	**89.5215**	**58.1145**	**0.1757**	**7.1456**	**3.0374**	**10.1830**	**2.4939**	**2.8165**	**5.3103**	**0.0000**	**17,840.8596**	**17,840.8596**	**3.0655**	**0.0000**	**17,917.4980**

Panattoni Warehouse + Manufacturing Project - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**39.67**	**0.00**	**28.59**	**43.87**	**0.00**	**22.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Energy	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001
Mobile	1.9097	3.5575	17.9182	0.0484	4.3847	0.0473	4.4320	1.1710	0.0443	1.2154		5,005.0650	5,005.0650	0.3580		5,014.0142
Total	**8.7229**	**4.9797**	**19.1824**	**0.0570**	**4.3847**	**0.1556**	**4.5403**	**1.1710**	**0.1526**	**1.3236**		**6,711.0781**	**6,711.0781**	**0.3911**	**0.0313**	**6,730.1743**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Energy	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
Mobile	1.9097	3.5575	17.9182	0.0484	4.3847	0.0473	4.4320	1.1710	0.0443	1.2154		5,005.0650	5,005.0650	0.3580		5,014.0142
Total	**8.6804**	**4.5938**	**18.8582**	**0.0546**	**4.3847**	**0.1263**	**4.5110**	**1.1710**	**0.1233**	**1.2943**		**6,247.9504**	**6,247.9504**	**0.3822**	**0.0228**	**6,264.2945**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.49**	**7.75**	**1.69**	**4.07**	**0.00**	**18.85**	**0.65**	**0.00**	**19.22**	**2.22**	**0.00**	**6.90**	**6.90**	**2.27**	**27.15**	**6.92**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/5/2020	12/31/2020	5	64	
2	Grading	Grading	1/1/2021	3/3/2021	5	44	
3	Building Construction	Building Construction	3/3/2021	12/28/2021	5	215	
4	Paving	Paving	9/1/2021	10/26/2021	5	40	
5	Architectural Coating	Architectural Coating	10/27/2021	12/27/2021	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 7.59

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 438,600; Non-Residential Outdoor: 146,200; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	3,425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	123.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7438	0.0000	8.7438	3.6072	0.0000	3.6072			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600		1.9927	1.9927		1.8333	1.8333		5,807.7515	5,807.7515	1.8783		5,854.7102
Total	**4.1493**	**46.1422**	**29.8669**	**0.0600**	**8.7438**	**1.9927**	**10.7364**	**3.6072**	**1.8333**	**5.4404**		**5,807.7515**	**5,807.7515**	**1.8783**		**5,854.7102**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6490	20.8803	4.8958	0.0607	1.3611	0.0641	1.4252	0.3731	0.0613	0.4344		6,588.8147	6,588.8147	0.4471		6,599.9932
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.7133**	**20.9245**	**5.5000**	**0.0624**	**1.5287**	**0.0654**	**1.5942**	**0.4176**	**0.0626**	**0.4801**		**6,759.6302**	**6,759.6302**	**0.4522**		**6,770.9345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9347	0.0000	3.9347	1.6232	0.0000	1.6232			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600		1.9927	1.9927		1.8333	1.8333	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102
Total	**4.1493**	**46.1422**	**29.8669**	**0.0600**	**3.9347**	**1.9927**	**5.9274**	**1.6232**	**1.8333**	**3.4565**	**0.0000**	**5,807.7515**	**5,807.7515**	**1.8783**		**5,854.7102**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6490	20.8803	4.8958	0.0607	1.3611	0.0641	1.4252	0.3731	0.0613	0.4344		6,588.8147	6,588.8147	0.4471		6,599.9932
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.7133**	**20.9245**	**5.5000**	**0.0624**	**1.5287**	**0.0654**	**1.5942**	**0.4176**	**0.0626**	**0.4801**		**6,759.6302**	**6,759.6302**	**0.4522**		**6,770.9345**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1459	4.6603	1.2183	0.0123	0.3073	9.5300e-003	0.3168	0.0885	9.1100e-003	0.0976		1,319.4270	1,319.4270	0.0777		1,321.3703
Worker	0.5273	0.3624	4.9541	0.0141	1.3749	0.0111	1.3860	0.3646	0.0102	0.3749		1,400.6869	1,400.6869	0.0413		1,401.7187
Total	**0.6732**	**5.0227**	**6.1724**	**0.0264**	**1.6822**	**0.0206**	**1.7028**	**0.4531**	**0.0193**	**0.4724**		**2,720.1139**	**2,720.1139**	**0.1190**		**2,723.0890**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1459	4.6603	1.2183	0.0123	0.3073	9.5300e-003	0.3168	0.0885	9.1100e-003	0.0976		1,319.4270	1,319.4270	0.0777		1,321.3703
Worker	0.5273	0.3624	4.9541	0.0141	1.3749	0.0111	1.3860	0.3646	0.0102	0.3749		1,400.6869	1,400.6869	0.0413		1,401.7187
Total	**0.6732**	**5.0227**	**6.1724**	**0.0264**	**1.6822**	**0.0206**	**1.7028**	**0.4531**	**0.0193**	**0.4724**		**2,720.1139**	**2,720.1139**	**0.1190**		**2,723.0890**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7527**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7527**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**61.8223**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1072	0.0737	1.0069	2.8600e-003	0.2794	2.2600e-003	0.2817	0.0741	2.0800e-003	0.0762		284.6925	284.6925	8.3900e-003		284.9022
Total	**0.1072**	**0.0737**	**1.0069**	**2.8600e-003**	**0.2794**	**2.2600e-003**	**0.2817**	**0.0741**	**2.0800e-003**	**0.0762**		**284.6925**	**284.6925**	**8.3900e-003**		**284.9022**

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	61.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**61.8223**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1072	0.0737	1.0069	2.8600e-003	0.2794	2.2600e-003	0.2817	0.0741	2.0800e-003	0.0762		284.6925	284.6925	8.3900e-003		284.9022
Total	**0.1072**	**0.0737**	**1.0069**	**2.8600e-003**	**0.2794**	**2.2600e-003**	**0.2817**	**0.0741**	**2.0800e-003**	**0.0762**		**284.6925**	**284.6925**	**8.3900e-003**		**284.9022**

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	1.9097	3.5575	17.9182	0.0484	4.3847	0.0473	4.4320	1.1710	0.0443	1.2154		5,005.0650	5,005.0650	0.3580		5,014.0142
Unmitigated	1.9097	3.5575	17.9182	0.0484	4.3847	0.0473	4.4320	1.1710	0.0443	1.2154		5,005.0650	5,005.0650	0.3580		5,014.0142

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	287.45	287.45	287.45	755,260	755,260
Manufacturing	499.90	499.90	499.90	1,313,460	1,313,460
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	787.34	787.34	787.34	2,068,719	2,068,719

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.85	4.98	4.09	59.00	28.00	13.00	92	5	3
Manufacturing	9.85	4.98	4.09	59.00	28.00	13.00	92	5	3
Other 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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Manufacturing	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
NaturalGas Unmitigated	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	8192.11	0.0884	0.8032	0.6746	4.8200e-003		0.0610	0.0610		0.0610	0.0610		963.7776	963.7776	0.0185	0.0177	969.5049
Manufacturing	6307.73	0.0680	0.6184	0.5195	3.7100e-003		0.0470	0.0470		0.0470	0.0470		742.0854	742.0854	0.0142	0.0136	746.4953
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1564**	**1.4216**	**1.1941**	**8.5300e-003**		**0.1080**	**0.1080**		**0.1080**	**0.1080**		**1,705.8630**	**1,705.8630**	**0.0327**	**0.0313**	**1,716.0001**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	5.96802	0.0644	0.5851	0.4915	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.1200	702.1200	0.0135	0.0129	706.2923
Manufacturing	4.59523	0.0496	0.4505	0.3784	2.7000e-003		0.0342	0.0342		0.0342	0.0342		540.6154	540.6154	0.0104	9.9100e-003	543.8280
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1139**	**1.0356**	**0.8699**	**6.2100e-003**		**0.0787**	**0.0787**		**0.0787**	**0.0787**		**1,242.7353**	**1,242.7353**	**0.0238**	**0.0228**	**1,250.1203**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Unmitigated	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599

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	0.7426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Total	**6.6569**	**6.4000e-004**	**0.0701**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1500**	**0.1500**	**4.0000e-004**		**0.1599**

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	0.7426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Total	**6.6569**	**6.4000e-004**	**0.0701**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1500**	**0.1500**	**4.0000e-004**		**0.1599**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Panattoni Warehouse + Manufacturing Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	165.20	1000sqft	3.79	165,200.00	0
Manufacturing	127.20	1000sqft	2.92	127,200.00	0
Other Asphalt Surfaces	4.09	Acre	4.09	178,160.40	0
Parking Lot	389.00	Space	3.50	155,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2018 Sustainability report pg10 https://www.edison.com/content/dam/eix/documents/sustainability/eix-2018-sustainability-report.pdf

Land Use -

Construction Phase - Anticipated Construction Schedule

Grading - Per Conceptual Grading Plan.

Vehicle Trips - Per the ITE Trip Gen Manual 10th Edition, 2017.

Calculated trip lengths are based off the anticipated yearly VMT from the Pehr & Fehr VMT Memo. The project would have approximately 5,681 daily VMT's.

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Vehicle Emission Factors - EMFAC 2017: Operational Year 2022

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2019 Title 24 requirements.

Water Mitigation - 2019 Title 24 and CalGreen Code Requirements.

Waste Mitigation - AB 341 requirements

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	20,026.00	0.00
tblAreaCoating	Area_Parking	20026	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstructionPhase	NumDays	300.00	215.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	30.00	44.00
tblConstructionPhase	NumDays	20.00	40.00

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tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
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tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.00
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tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
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tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
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tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblGrading	MaterialImported	0.00	27,400.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
tblTripsAndVMT	VendorTripNumber	103.00	48.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	263.00	123.00
tblTripsAndVMT	WorkerTripNumber	53.00	25.00
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tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.17	0.70
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.02	8.2630e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.82	1.59
tblVehicleEF	LDT1	2.36	1.93
tblVehicleEF	LDT1	356.02	331.08
tblVehicleEF	LDT1	69.44	62.64
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.5840e-003	3.2760e-003
tblVehicleEF	LDT1	7.3600e-004	6.2000e-004
tblVehicleEF	LDT1	0.20	0.20
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.16	0.65
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.02	7.6410e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.63	1.41
tblVehicleEF	LDT1	2.87	2.35
tblVehicleEF	LDT1	335.69	314.09
tblVehicleEF	LDT1	69.44	63.47
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	0.16	0.26
tblVehicleEF	LDT1	3.5390e-003	2.7170e-003
tblVehicleEF	LDT1	3.4320e-003	2.6330e-003
tblVehicleEF	LDT1	3.2590e-003	2.5000e-003
tblVehicleEF	LDT1	3.1560e-003	2.4210e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.04	0.03

tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.20	0.37
tblVehicleEF	LDT1	3.3780e-003	3.1080e-003
tblVehicleEF	LDT1	7.4500e-004	6.2800e-004
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.83
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT2	7.2180e-003	4.9910e-003
tblVehicleEF	LDT2	6.3970e-003	0.07
tblVehicleEF	LDT2	0.84	1.02
tblVehicleEF	LDT2	1.35	2.65
tblVehicleEF	LDT2	381.91	341.38
tblVehicleEF	LDT2	78.07	68.34
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.8260e-003	3.3770e-003
tblVehicleEF	LDT2	8.0300e-004	6.7600e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.34
tblVehicleEF	LDT2	7.6530e-003	5.3200e-003
tblVehicleEF	LDT2	5.6920e-003	0.06
tblVehicleEF	LDT2	0.92	1.12
tblVehicleEF	LDT2	1.15	2.26
tblVehicleEF	LDT2	399.04	353.53
tblVehicleEF	LDT2	78.07	67.60
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.28

tblVehicleEF	LDT2	3.9980e-003	3.4980e-003
tblVehicleEF	LDT2	8.0000e-004	6.6900e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0750e-003	4.8890e-003
tblVehicleEF	LDT2	6.5470e-003	0.07
tblVehicleEF	LDT2	0.81	0.99
tblVehicleEF	LDT2	1.39	2.74
tblVehicleEF	LDT2	375.62	336.92
tblVehicleEF	LDT2	78.07	68.50
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.11	0.29
tblVehicleEF	LDT2	2.1510e-003	1.9050e-003
tblVehicleEF	LDT2	2.3580e-003	1.8880e-003
tblVehicleEF	LDT2	1.9790e-003	1.7530e-003
tblVehicleEF	LDT2	2.1690e-003	1.7360e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	3.7630e-003	3.3330e-003

tblVehicleEF	LDT2	8.0400e-004	6.7800e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LHD1	5.5970e-003	5.5830e-003
tblVehicleEF	LHD1	0.01	5.7240e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.84	0.65
tblVehicleEF	LHD1	2.79	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.21
tblVehicleEF	LHD1	33.34	12.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.95	0.65
tblVehicleEF	LHD1	1.01	0.33
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004

tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8500e-004	1.2300e-004
tblVehicleEF	LHD1	3.1460e-003	2.5670e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9140e-003	1.5640e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.56
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.5970e-003	5.5950e-003
tblVehicleEF	LHD1	0.01	5.8420e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.85	0.67
tblVehicleEF	LHD1	2.66	1.09
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.23
tblVehicleEF	LHD1	33.34	12.33
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	0.96	0.32
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9310e-003	6.5070e-003
tblVehicleEF	LHD1	3.8300e-004	1.2200e-004
tblVehicleEF	LHD1	4.7100e-003	3.8550e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.6900e-003	2.2100e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.28	0.08

tblVehicleEF	LHD1	5.5970e-003	5.5810e-003
tblVehicleEF	LHD1	0.01	5.6940e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.83	0.65
tblVehicleEF	LHD1	2.81	1.14
tblVehicleEF	LHD1	8.92	8.89
tblVehicleEF	LHD1	603.81	666.20
tblVehicleEF	LHD1	33.34	12.44
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tblVehicleEF	LHD1	0.94	0.64
tblVehicleEF	LHD1	1.01	0.34
tblVehicleEF	LHD1	8.2600e-004	7.5700e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	9.1270e-003	6.4420e-003
tblVehicleEF	LHD1	1.0140e-003	2.8500e-004
tblVehicleEF	LHD1	7.9000e-004	7.2400e-004
tblVehicleEF	LHD1	2.5160e-003	2.4200e-003
tblVehicleEF	LHD1	8.7050e-003	6.1330e-003
tblVehicleEF	LHD1	9.3300e-004	2.6200e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.27	0.08

tblVehicleEF	LHD1	9.0000e-005	8.6000e-005
tblVehicleEF	LHD1	5.9300e-003	6.5060e-003
tblVehicleEF	LHD1	3.8600e-004	1.2300e-004
tblVehicleEF	LHD1	3.3080e-003	2.7050e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8850e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	4.0020e-003	3.9120e-003
tblVehicleEF	LHD2	4.2980e-003	3.9650e-003
tblVehicleEF	LHD2	8.5190e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.37	0.76
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.56
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.65	0.84
tblVehicleEF	LHD2	0.55	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003

tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1380e-003	1.5680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4500e-004	9.7100e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9200e-003
tblVehicleEF	LHD2	4.3570e-003	4.0120e-003
tblVehicleEF	LHD2	8.2260e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.35	0.44
tblVehicleEF	LHD2	1.31	0.73
tblVehicleEF	LHD2	13.57	13.45

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tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.61	0.79
tblVehicleEF	LHD2	0.53	0.22
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
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tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0300e-004	9.4000e-005
tblVehicleEF	LHD2	1.6960e-003	2.3400e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-003	1.3640e-003

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.34
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	4.0020e-003	3.9100e-003
tblVehicleEF	LHD2	4.2820e-003	3.9540e-003
tblVehicleEF	LHD2	8.5780e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.34	0.44
tblVehicleEF	LHD2	1.38	0.77
tblVehicleEF	LHD2	13.57	13.45
tblVehicleEF	LHD2	617.83	667.35
tblVehicleEF	LHD2	27.88	9.57
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.64	0.82
tblVehicleEF	LHD2	0.56	0.23
tblVehicleEF	LHD2	1.1620e-003	1.2520e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8510e-003	0.01
tblVehicleEF	LHD2	4.6900e-004	1.6200e-004
tblVehicleEF	LHD2	1.1110e-003	1.1980e-003
tblVehicleEF	LHD2	2.6540e-003	2.6330e-003
tblVehicleEF	LHD2	8.4540e-003	9.5770e-003
tblVehicleEF	LHD2	4.3100e-004	1.4900e-004
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004

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tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	1.3300e-004	1.2900e-004
tblVehicleEF	LHD2	6.0210e-003	6.4600e-003
tblVehicleEF	LHD2	3.0400e-004	9.5000e-005
tblVehicleEF	LHD2	1.1610e-003	1.6250e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.2300e-004	9.4300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.94	19.19
tblVehicleEF	MCY	9.66	8.53
tblVehicleEF	MCY	188.92	223.45
tblVehicleEF	MCY	44.52	59.65
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66

tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	2.60	2.61
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.05	1.82
tblVehicleEF	MCY	2.2780e-003	2.2110e-003
tblVehicleEF	MCY	6.6300e-004	5.9000e-004
tblVehicleEF	MCY	1.06	1.09
tblVehicleEF	MCY	0.63	0.66
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.60	1.99
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.24	18.47
tblVehicleEF	MCY	8.82	7.76
tblVehicleEF	MCY	188.92	222.09
tblVehicleEF	MCY	44.52	57.74
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10

tblVehicleEF	MCY	2.54	2.55
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.2650e-003	2.1980e-003
tblVehicleEF	MCY	6.4300e-004	5.7100e-004
tblVehicleEF	MCY	1.73	1.77
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	3.16	3.17
tblVehicleEF	MCY	0.56	1.87
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.29
tblVehicleEF	MCY	9.80	8.66
tblVehicleEF	MCY	188.92	223.65
tblVehicleEF	MCY	44.52	59.99
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.4360e-003	2.4320e-003
tblVehicleEF	MCY	3.8630e-003	3.2970e-003
tblVehicleEF	MCY	2.2770e-003	2.2730e-003
tblVehicleEF	MCY	3.6360e-003	3.1040e-003
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	2.61	2.62

tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.2800e-003	2.2130e-003
tblVehicleEF	MCY	6.6700e-004	5.9400e-004
tblVehicleEF	MCY	1.16	1.18
tblVehicleEF	MCY	0.82	0.85
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	3.25	3.26
tblVehicleEF	MCY	0.69	2.29
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	6.5750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.33	1.22
tblVehicleEF	MDV	2.48	3.11
tblVehicleEF	MDV	512.22	419.24
tblVehicleEF	MDV	103.14	83.18
tblVehicleEF	MDV	0.15	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.43

tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MDV	5.1310e-003	4.1450e-003
tblVehicleEF	MDV	1.0750e-003	8.2300e-004
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.44
tblVehicleEF	MDV	0.01	6.9930e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.45	1.33
tblVehicleEF	MDV	2.12	2.64
tblVehicleEF	MDV	534.67	432.09
tblVehicleEF	MDV	103.14	82.28
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.20	0.32
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.17	0.36

tblVehicleEF	MDV	5.3570e-003	4.2720e-003
tblVehicleEF	MDV	1.0680e-003	8.1400e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.40
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.4430e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.29	1.18
tblVehicleEF	MDV	2.56	3.21
tblVehicleEF	MDV	503.99	414.54
tblVehicleEF	MDV	103.14	83.37
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.22	0.35
tblVehicleEF	MDV	2.3560e-003	2.0820e-003
tblVehicleEF	MDV	2.5140e-003	2.0580e-003
tblVehicleEF	MDV	2.1720e-003	1.9190e-003
tblVehicleEF	MDV	2.3120e-003	1.8920e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	5.0480e-003	4.0980e-003

tblVehicleEF	MDV	1.0760e-003	8.2500e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.50
tblVehicleEF	MDV	0.21	0.45
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.21
tblVehicleEF	MH	5.78	2.15
tblVehicleEF	MH	1,130.03	1,501.21
tblVehicleEF	MH	60.43	19.42
tblVehicleEF	MH	1.08	1.11
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.33	0.10

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0500e-004	1.9200e-004
tblVehicleEF	MH	0.95	0.84
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.41	0.35
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.46
tblVehicleEF	MH	0.36	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.30	1.24
tblVehicleEF	MH	5.44	2.03
tblVehicleEF	MH	1,130.03	1,501.27
tblVehicleEF	MH	60.43	19.21
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tblVehicleEF	MH	0.76	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.02	1.43

tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9900e-004	1.9000e-004
tblVehicleEF	MH	1.41	1.24
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.58	0.50
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	1.43
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.22	1.20
tblVehicleEF	MH	5.83	2.18
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tblVehicleEF	MH	60.43	19.45
tblVehicleEF	MH	1.06	1.09
tblVehicleEF	MH	0.80	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1280e-003	2.8400e-004
tblVehicleEF	MH	3.2020e-003	3.2450e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0370e-003	2.6100e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.42	0.36
tblVehicleEF	MH	0.08	0.06

tblVehicleEF	MH	0.02	1.54
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.0600e-004	1.9300e-004
tblVehicleEF	MH	1.08	0.94
tblVehicleEF	MH	0.08	0.07
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tblVehicleEF	MHD	9.96	1.29
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tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.3800e-004	1.0300e-003
tblVehicleEF	MHD	4.8830e-003	0.03

tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.37	0.07
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tblVehicleEF	MHD	7.4300e-004	1.1900e-004
tblVehicleEF	MHD	1.1350e-003	6.6200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4200e-004	4.2600e-004
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	0.02	0.14
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tblVehicleEF	MHD	0.02	4.1570e-003
tblVehicleEF	MHD	4.9280e-003	4.6490e-003
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tblVehicleEF	MHD	63.58	11.93

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tblVehicleEF	MHD	1.08	1.54
tblVehicleEF	MHD	9.92	1.29
tblVehicleEF	MHD	2.0900e-004	9.1000e-004
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tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.0000e-004	8.7100e-004
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	1.3550e-003	6.4800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3800e-004	1.1800e-004
tblVehicleEF	MHD	1.7000e-003	9.9300e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.0480e-003	6.0400e-004
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.39	0.07
tblVehicleEF	MHD	0.02	4.7150e-003

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tblVehicleEF	MHD	5.1090e-003	0.03
tblVehicleEF	MHD	8.4300e-004	1.3700e-004
tblVehicleEF	MHD	2.8900e-004	1.2500e-003
tblVehicleEF	MHD	4.8830e-003	0.03
tblVehicleEF	MHD	7.7600e-004	1.2600e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.16
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	1.1790e-003	6.2900e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4400e-004	1.1900e-004

tblVehicleEF	MHD	1.1690e-003	6.8600e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.2400e-004	4.1600e-004
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tblVehicleEF	MHD	0.02	0.16
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tblVehicleEF	OBUS	7.7220e-003	7.0170e-003
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tblVehicleEF	OBUS	0.28	0.60
tblVehicleEF	OBUS	0.53	0.79
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tblVehicleEF	OBUS	2.60	0.76
tblVehicleEF	OBUS	1.1400e-004	7.9300e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.0900e-004	7.5900e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4340e-003	1.8440e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.6800e-004	9.4300e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	1.0820e-003	9.0000e-004
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tblVehicleEF	OBUS	1.4340e-003	1.8440e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	0.01	8.5410e-003
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tblVehicleEF	OBUS	0.54	0.80
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tblVehicleEF	OBUS	1,260.49	1,392.51
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tblVehicleEF	OBUS	2.57	0.75

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tblVehicleEF	OBUS	9.2000e-005	6.4500e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	2.1010e-003	2.6890e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0830e-003	1.3250e-003
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tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.32	0.11
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tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.35	0.12
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tblVehicleEF	OBUS	1.52	1.54
tblVehicleEF	OBUS	2.61	0.76
tblVehicleEF	OBUS	1.3900e-004	9.5800e-004
tblVehicleEF	OBUS	7.4300e-003	0.02
tblVehicleEF	OBUS	8.0700e-004	1.9700e-004
tblVehicleEF	OBUS	1.3300e-004	9.1600e-004
tblVehicleEF	OBUS	7.0930e-003	0.02
tblVehicleEF	OBUS	7.4200e-004	1.8100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	1.0070e-003	9.0200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7500e-004	1.9100e-004
tblVehicleEF	OBUS	1.4690e-003	1.9270e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07

tblVehicleEF	OBUS	7.4700e-004	9.2500e-004
tblVehicleEF	OBUS	0.08	0.08
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0580e-003
tblVehicleEF	SBUS	0.06	6.2120e-003
tblVehicleEF	SBUS	8.15	2.77
tblVehicleEF	SBUS	0.72	0.59
tblVehicleEF	SBUS	7.31	0.85
tblVehicleEF	SBUS	1,121.00	351.72
tblVehicleEF	SBUS	1,079.30	1,109.67
tblVehicleEF	SBUS	55.06	5.24
tblVehicleEF	SBUS	9.20	3.22
tblVehicleEF	SBUS	4.17	4.87
tblVehicleEF	SBUS	12.12	0.88
tblVehicleEF	SBUS	9.3410e-003	4.1230e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	8.9370e-003	3.9440e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	3.3650e-003	9.0700e-004
tblVehicleEF	SBUS	0.03	7.8550e-003
tblVehicleEF	SBUS	0.97	0.32

tblVehicleEF	SBUS	1.7650e-003	4.8200e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3550e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7700e-004	5.2000e-005
tblVehicleEF	SBUS	3.3650e-003	9.0700e-004
tblVehicleEF	SBUS	0.03	7.8550e-003
tblVehicleEF	SBUS	1.40	0.46
tblVehicleEF	SBUS	1.7650e-003	4.8200e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.42	0.04
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.1350e-003
tblVehicleEF	SBUS	0.06	5.5320e-003
tblVehicleEF	SBUS	8.04	2.74
tblVehicleEF	SBUS	0.73	0.60
tblVehicleEF	SBUS	5.94	0.69
tblVehicleEF	SBUS	1,171.46	359.77
tblVehicleEF	SBUS	1,079.30	1,109.69
tblVehicleEF	SBUS	55.06	4.98
tblVehicleEF	SBUS	9.50	3.29
tblVehicleEF	SBUS	3.93	4.59
tblVehicleEF	SBUS	12.09	0.87
tblVehicleEF	SBUS	7.8750e-003	3.4830e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	7.5340e-003	3.3320e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
tblVehicleEF	SBUS	0.97	0.32
tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.03
tblVehicleEF	SBUS	0.01	3.4310e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5400e-004	4.9000e-005
tblVehicleEF	SBUS	4.9570e-003	1.3200e-003
tblVehicleEF	SBUS	0.03	7.9970e-003
tblVehicleEF	SBUS	1.40	0.45
tblVehicleEF	SBUS	2.5080e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	0.03
tblVehicleEF	SBUS	0.84	0.07
tblVehicleEF	SBUS	0.01	7.0360e-003
tblVehicleEF	SBUS	0.07	6.3620e-003

tblVehicleEF	SBUS	8.31	2.83
tblVehicleEF	SBUS	0.72	0.58
tblVehicleEF	SBUS	7.56	0.88
tblVehicleEF	SBUS	1,051.30	340.60
tblVehicleEF	SBUS	1,079.30	1,109.67
tblVehicleEF	SBUS	55.06	5.29
tblVehicleEF	SBUS	8.80	3.13
tblVehicleEF	SBUS	4.10	4.79
tblVehicleEF	SBUS	12.13	0.88
tblVehicleEF	SBUS	0.01	5.0060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.1500e-004	5.1000e-005
tblVehicleEF	SBUS	0.01	4.7890e-003
tblVehicleEF	SBUS	2.6670e-003	2.6820e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	7.5000e-004	4.7000e-005
tblVehicleEF	SBUS	3.4320e-003	9.2000e-004
tblVehicleEF	SBUS	0.03	8.2560e-003
tblVehicleEF	SBUS	0.98	0.32
tblVehicleEF	SBUS	1.6940e-003	4.6300e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2500e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8100e-004	5.2000e-005

tblVehicleEF	SBUS	3.4320e-003	9.2000e-004
tblVehicleEF	SBUS	0.03	8.2560e-003
tblVehicleEF	SBUS	1.41	0.46
tblVehicleEF	SBUS	1.6940e-003	4.6300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.43	0.04
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.22	45.07
tblVehicleEF	UBUS	8.87	0.71
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.53
tblVehicleEF	UBUS	9.98	0.48
tblVehicleEF	UBUS	15.36	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
tblVehicleEF	UBUS	0.85	0.08

tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8600e-003	1.5580e-003
tblVehicleEF	UBUS	1.1250e-003	8.4000e-005
tblVehicleEF	UBUS	4.1440e-003	6.1100e-004
tblVehicleEF	UBUS	0.07	8.4590e-003
tblVehicleEF	UBUS	2.3870e-003	4.9000e-004
tblVehicleEF	UBUS	3.56	5.92
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.74	0.05
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.27	45.07
tblVehicleEF	UBUS	7.69	0.62
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.38
tblVehicleEF	UBUS	9.41	0.48
tblVehicleEF	UBUS	15.31	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	5.9080e-003	8.9300e-004

tblVehicleEF	UBUS	0.07	8.7350e-003
tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	0.86	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.62	0.04
tblVehicleEF	UBUS	9.8610e-003	1.5580e-003
tblVehicleEF	UBUS	1.1050e-003	8.3000e-005
tblVehicleEF	UBUS	5.9080e-003	8.9300e-004
tblVehicleEF	UBUS	0.07	8.7350e-003
tblVehicleEF	UBUS	3.2830e-003	6.8000e-004
tblVehicleEF	UBUS	3.57	5.92
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	2.61	5.80
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.21	45.07
tblVehicleEF	UBUS	9.08	0.72
tblVehicleEF	UBUS	1,968.89	1,988.80
tblVehicleEF	UBUS	96.56	8.56
tblVehicleEF	UBUS	9.79	0.48
tblVehicleEF	UBUS	15.38	0.08
tblVehicleEF	UBUS	0.61	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.13	3.2120e-003
tblVehicleEF	UBUS	1.0870e-003	4.6000e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003

tblVehicleEF	UBUS	0.13	3.0700e-003
tblVehicleEF	UBUS	9.9900e-004	4.2000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	0.85	0.08
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	9.8590e-003	1.5580e-003
tblVehicleEF	UBUS	1.1290e-003	8.5000e-005
tblVehicleEF	UBUS	4.7000e-003	5.9500e-004
tblVehicleEF	UBUS	0.08	9.0200e-003
tblVehicleEF	UBUS	2.5010e-003	4.6500e-004
tblVehicleEF	UBUS	3.55	5.92
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.75	0.05
tblVehicleTrips	CC_TL	8.40	4.98
tblVehicleTrips	CC_TL	8.40	4.98
tblVehicleTrips	CNW_TL	6.90	4.09
tblVehicleTrips	CNW_TL	6.90	4.09
tblVehicleTrips	CW_TL	16.60	9.85
tblVehicleTrips	CW_TL	16.60	9.85
tblVehicleTrips	ST_TR	1.50	1.74
tblVehicleTrips	ST_TR	1.49	3.93
tblVehicleTrips	SU_TR	1.50	1.74
tblVehicleTrips	SU_TR	0.62	3.93
tblVehicleTrips	WD_TR	1.50	1.74

tblVehicleTrips	WD_TR	3.82	3.93

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.3888	33.2554	22.3547	0.0405	0.1677	1.6601	1.8278	0.0445	1.5431	1.5876	0.0000	3,913.8180	3,913.8180	1.0632	0.0000	3,940.3976
2021	64.5821	89.8112	58.0632	0.1734	11.9547	3.0387	14.9933	4.4778	2.8177	7.2955	0.0000	17,598.7557	17,598.7557	3.0836	0.0000	17,675.8469
Maximum	**64.5821**	**89.8112**	**58.0632**	**0.1734**	**11.9547**	**3.0387**	**14.9933**	**4.4778**	**2.8177**	**7.2955**	**0.0000**	**17,598.7557**	**17,598.7557**	**3.0836**	**0.0000**	**17,675.8469**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.3888	33.2554	22.3547	0.0405	0.1677	1.6601	1.8278	0.0445	1.5431	1.5876	0.0000	3,913.8180	3,913.8180	1.0632	0.0000	3,940.3976
2021	64.5821	89.8112	58.0632	0.1734	7.1456	3.0387	10.1842	2.4939	2.8177	5.3115	0.0000	17,598.7557	17,598.7557	3.0836	0.0000	17,675.8469
Maximum	**64.5821**	**89.8112**	**58.0632**	**0.1734**	**7.1456**	**3.0387**	**10.1842**	**2.4939**	**2.8177**	**5.3115**	**0.0000**	**17,598.7557**	**17,598.7557**	**3.0836**	**0.0000**	**17,675.8469**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**39.67**	**0.00**	**28.59**	**43.87**	**0.00**	**22.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Energy	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001
Mobile	1.9653	3.7708	17.3393	0.0465	4.3847	0.0474	4.4321	1.1710	0.0444	1.2154		4,813.3403	4,813.3403	0.3661		4,822.4934
Total	**8.7786**	**5.1930**	**18.6035**	**0.0550**	**4.3847**	**0.1557**	**4.5404**	**1.1710**	**0.1527**	**1.3237**		**6,519.3533**	**6,519.3533**	**0.3992**	**0.0313**	**6,538.6534**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Energy	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
Mobile	1.9653	3.7708	17.3393	0.0465	4.3847	0.0474	4.4321	1.1710	0.0444	1.2154		4,813.3403	4,813.3403	0.3661		4,822.4934
Total	**8.7361**	**4.8071**	**18.2793**	**0.0527**	**4.3847**	**0.1263**	**4.5110**	**1.1710**	**0.1234**	**1.2944**		**6,056.2256**	**6,056.2256**	**0.3904**	**0.0228**	**6,072.7736**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.48**	**7.43**	**1.74**	**4.22**	**0.00**	**18.84**	**0.65**	**0.00**	**19.21**	**2.22**	**0.00**	**7.10**	**7.10**	**2.22**	**27.15**	**7.13**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/5/2020	12/31/2020	5	64	
2	Grading	Grading	1/1/2021	3/3/2021	5	44	
3	Building Construction	Building Construction	3/3/2021	12/28/2021	5	215	
4	Paving	Paving	9/1/2021	10/26/2021	5	40	
5	Architectural Coating	Architectural Coating	10/27/2021	12/27/2021	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 110

Acres of Paving: 7.59

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 438,600; Non-Residential Outdoor: 146,200; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Panattoni Warehouse + Manufacturing Project - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	3,425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	123.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7438	0.0000	8.7438	3.6072	0.0000	3.6072			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600		1.9927	1.9927		1.8333	1.8333		5,807.7515	5,807.7515	1.8783		5,854.7102
Total	**4.1493**	**46.1422**	**29.8669**	**0.0600**	**8.7438**	**1.9927**	**10.7364**	**3.6072**	**1.8333**	**5.4404**		**5,807.7515**	**5,807.7515**	**1.8783**		**5,854.7102**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6647	21.1361	5.1915	0.0597	1.3611	0.0651	1.4261	0.3731	0.0622	0.4353		6,474.6753	6,474.6753	0.4629		6,486.2479
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.7362**	**21.1850**	**5.7438**	**0.0613**	**1.5287**	**0.0664**	**1.5952**	**0.4176**	**0.0635**	**0.4811**		**6,635.5129**	**6,635.5129**	**0.4676**		**6,647.2039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9347	0.0000	3.9347	1.6232	0.0000	1.6232			0.0000			0.0000
Off-Road	4.1493	46.1422	29.8669	0.0600		1.9927	1.9927		1.8333	1.8333	0.0000	5,807.7515	5,807.7515	1.8783		5,854.7102
Total	**4.1493**	**46.1422**	**29.8669**	**0.0600**	**3.9347**	**1.9927**	**5.9274**	**1.6232**	**1.8333**	**3.4565**	**0.0000**	**5,807.7515**	**5,807.7515**	**1.8783**		**5,854.7102**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6647	21.1361	5.1915	0.0597	1.3611	0.0651	1.4261	0.3731	0.0622	0.4353		6,474.6753	6,474.6753	0.4629		6,486.2479
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.7362**	**21.1850**	**5.7438**	**0.0613**	**1.5287**	**0.0664**	**1.5952**	**0.4176**	**0.0635**	**0.4811**		**6,635.5129**	**6,635.5129**	**0.4676**		**6,647.2039**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1532	4.6507	1.3477	0.0120	0.3073	9.8300e-003	0.3171	0.0885	9.4100e-003	0.0979		1,283.2585	1,283.2585	0.0828		1,285.3296
Worker	0.5865	0.4012	4.5296	0.0132	1.3749	0.0111	1.3860	0.3646	0.0102	0.3749		1,318.8688	1,318.8688	0.0388		1,319.8391
Total	**0.7397**	**5.0518**	**5.8772**	**0.0253**	**1.6822**	**0.0209**	**1.7031**	**0.4531**	**0.0196**	**0.4727**		**2,602.1274**	**2,602.1274**	**0.1217**		**2,605.1687**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1532	4.6507	1.3477	0.0120	0.3073	9.8300e-003	0.3171	0.0885	9.4100e-003	0.0979		1,283.2585	1,283.2585	0.0828		1,285.3296
Worker	0.5865	0.4012	4.5296	0.0132	1.3749	0.0111	1.3860	0.3646	0.0102	0.3749		1,318.8688	1,318.8688	0.0388		1,319.8391
Total	**0.7397**	**5.0518**	**5.8772**	**0.0253**	**1.6822**	**0.0209**	**1.7031**	**0.4531**	**0.0196**	**0.4727**		**2,602.1274**	**2,602.1274**	**0.1217**		**2,605.1687**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7527**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7527**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**61.8223**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1192	0.0815	0.9206	2.6900e-003	0.2794	2.2600e-003	0.2817	0.0741	2.0800e-003	0.0762		268.0628	268.0628	7.8900e-003		268.2600
Total	**0.1192**	**0.0815**	**0.9206**	**2.6900e-003**	**0.2794**	**2.2600e-003**	**0.2817**	**0.0741**	**2.0800e-003**	**0.0762**		**268.0628**	**268.0628**	**7.8900e-003**		**268.2600**

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	61.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**61.8223**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1192	0.0815	0.9206	2.6900e-003	0.2794	2.2600e-003	0.2817	0.0741	2.0800e-003	0.0762		268.0628	268.0628	7.8900e-003		268.2600
Total	**0.1192**	**0.0815**	**0.9206**	**2.6900e-003**	**0.2794**	**2.2600e-003**	**0.2817**	**0.0741**	**2.0800e-003**	**0.0762**		**268.0628**	**268.0628**	**7.8900e-003**		**268.2600**

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	1.9653	3.7708	17.3393	0.0465	4.3847	0.0474	4.4321	1.1710	0.0444	1.2154		4,813.3403	4,813.3403	0.3661		4,822.4934
Unmitigated	1.9653	3.7708	17.3393	0.0465	4.3847	0.0474	4.4321	1.1710	0.0444	1.2154		4,813.3403	4,813.3403	0.3661		4,822.4934

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	287.45	287.45	287.45	755,260	755,260
Manufacturing	499.90	499.90	499.90	1,313,460	1,313,460
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	787.34	787.34	787.34	2,068,719	2,068,719

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.85	4.98	4.09	59.00	28.00	13.00	92	5	3
Manufacturing	9.85	4.98	4.09	59.00	28.00	13.00	92	5	3
Other 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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Manufacturing	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1139	1.0356	0.8699	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.7353	1,242.7353	0.0238	0.0228	1,250.1203
NaturalGas Unmitigated	0.1564	1.4216	1.1941	8.5300e-003		0.1080	0.1080		0.1080	0.1080		1,705.8630	1,705.8630	0.0327	0.0313	1,716.0001

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	8192.11	0.0884	0.8032	0.6746	4.8200e-003		0.0610	0.0610		0.0610	0.0610		963.7776	963.7776	0.0185	0.0177	969.5049
Manufacturing	6307.73	0.0680	0.6184	0.5195	3.7100e-003		0.0470	0.0470		0.0470	0.0470		742.0854	742.0854	0.0142	0.0136	746.4953
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1564**	**1.4216**	**1.1941**	**8.5300e-003**		**0.1080**	**0.1080**		**0.1080**	**0.1080**		**1,705.8630**	**1,705.8630**	**0.0327**	**0.0313**	**1,716.0001**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	5.96802	0.0644	0.5851	0.4915	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.1200	702.1200	0.0135	0.0129	706.2923
Manufacturing	4.59523	0.0496	0.4505	0.3784	2.7000e-003		0.0342	0.0342		0.0342	0.0342		540.6154	540.6154	0.0104	9.9100e-003	543.8280
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1139**	**1.0356**	**0.8699**	**6.2100e-003**		**0.0787**	**0.0787**		**0.0787**	**0.0787**		**1,242.7353**	**1,242.7353**	**0.0238**	**0.0228**	**1,250.1203**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Unmitigated	6.6569	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599

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	0.7426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Total	**6.6569**	**6.4000e-004**	**0.0701**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1500**	**0.1500**	**4.0000e-004**		**0.1599**

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	0.7426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0701	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1500	0.1500	4.0000e-004		0.1599
Total	**6.6569**	**6.4000e-004**	**0.0701**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1500**	**0.1500**	**4.0000e-004**		**0.1599**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Panattoni Project - Warehouse and Manufacturing Option
Energy Calculations

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
General Heavy Industrial	21,788,330	217,883	1,699,910	1,700
Manufacturing	1,677,260	16,773	1,308,890	1,309
Other Asphalt Surfaces	0	0	0	0
Parking Lot	0	0	54,460	54
Totals	**23,465,590**	**234,656**	**3,063,260**	**3,063**

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Los Angeles County Annual Energy	Percentage Increase Countywide
Electricity	3,063	68,486,000	0.0045%
Natural Gas	234,656	2,921,000,000	0.0080%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Panattoni Project - Warehouse and Manufacturing Option
Energy Calculations

Vehicle Type	Percent of Vehicle Trips[1]	Daily Trips[2]	Annual Vehicle Miles Traveled[3]	Average Fuel Economy (miles per gallon)[4]	Total Annual Fuel Consumption (gallons)[5]
Passenger Cars	0.55	--	1135432.97	22	51,611
Light/Medium Trucks	0.39	--	799005.48	17.3	46,185
Heavy Trucks/Other	0.06	--	134280.55	6.4	20,981
TOTAL [6]	***1.00***	--	***2,068,719***	*--*	***118,777***

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips calculated by multiplying the total daily trips by percent vehicle trips (i.e., Daily Trips x percent of Vehicle Trips).
3. Daily Vehicle Miles Traveled (VMT) calculated by multiplying percent vehicle trips by total VMT (i.e., VMT x percent of Vehicle Trips).
4. Average fuel economy derived from the Department of Transportation.
5. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
6. Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Panattoni Project - Warehouse and Manufacturing Option
Energy Calculations

WORKER TRIPS

Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Demolition	64	15	14.7	14112		566.68
Grading	44	15	14.7	9702		389.59
Paving	40	15	14.7	8820	**24.90284233**	354.18
Building Construction	215	123	14.7	1808		72.61
Architectural Coating	44	25	14.7	368		14.76
						1397.82

VENDOR TRIPS

Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Demolition	64	0	6.9	0		0.00
Grading	44	0	6.9	0		0.00
Paving	40	0	6.9	0	**8.343886151**	0.00
Building Construction	215	48	6.9	331		39.69
Architectural Coating	44	0	6.9	0		0.00
						39.69

HAULING TRIPS

Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)[1]	Total Fuel Consumption
Demolition	64	0	20	0		0.00
Grading	44	3425	20	68500		8209.60
Paving	40	0	20	0	**8.343886151**	0.00
Building Construction	215	0	20	0		0.00
Architectural Coating	44	0	20	0		0.00
						8209.60

TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION	**9,647.11**

Panattoni Project - Warehouse and Manufacturing Option
Energy Calculations

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Demolition	Concrete/Industrial Saws	1	8	81	0.73	2.3652	8	64	1210.98
	Excavators	3	8	158	0.38	2.4016	24	64	3688.86
	Rubber Tired Dozers	2	8	247	0.4	3.952	16	64	4046.85
Grading	Excavators	1	8	158	0.38	2.4016	8	44	845.36
	Graders	1	8	187	0.41	3.0668	8	44	1079.51
	Rubber Tired Dozers	1	8	247	0.4	3.952	8	44	1391.10
	Scrapers	2	8	367	0.48	7.0464	16	44	4960.67
	Tractors/Loaders/Backhoes	3	8	97	0.37	1.4356	24	44	1515.99
Paving	Pavers	2	8	130	0.42	2.184	16	40	1397.76
	Paving Equipment	2	8	132	0.36	1.9008	16	40	1216.51
	Rollers	2	8	80	0.38	1.216	16	40	778.24
Building Construction	Cranes	1	7	231	0.29	2.6796	7	215	4032.80
	Forklifts	3	8	89	0.20	0.712	24	215	3673.92
	Generator Sets	1	8	84	0.74	2.4864	8	215	4276.61
	Tractors/Loaders/Backhoes	3	7	97	0.37	1.4356	21	215	6481.73
	Welders	1	8	46	0.45	0.828	8	215	1424.16
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	44	395.37
								Total:	52,064
								Off-Site Mobile Construction Total:	9,647.11
								TOTAL:	**61,711**

Notes:

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

4.0 MITIGATION MONITORING AND REPORTING PROGRAM

The California Environmental Quality Act (CEQA) requires that when a public agency completes an environmental document that includes measures to mitigate or avoid significant environmental effects, the public agency must adopt a reporting or monitoring plan. This requirement ensures that environmental impacts found to be significant will be mitigated. The reporting or monitoring plan must be designed to ensure compliance during project implementation (Public Resources Code Section 21081.6).

In compliance with Public Resources Code Section 21081.6, Table 1, *Mitigation Monitoring and Reporting Checklist*, has been prepared for the Panattoni Project (the "project"). This Mitigation Monitoring and Reporting Checklist is intended to provide verification that all applicable Conditions of Approval relative to significant environmental impacts are monitored and reported. Monitoring will include: 1) verification that each mitigation measure has been implemented; 2) recordation of the actions taken to implement each mitigation; and 3) retention of records in the City of Carson Panattoni Project file.

This Mitigation Monitoring and Reporting Program (MMRP) delineates responsibilities for monitoring the project, but also allows the City flexibility and discretion in determining how best to monitor implementation. Monitoring procedures will vary according to the type of mitigation measure. Adequate monitoring consists of demonstrating that monitoring procedures took place and that mitigation measures were implemented. This includes the review of all monitoring reports, enforcement actions, and document disposition, unless otherwise noted in the Mitigation Monitoring and Reporting Checklist (Table 1). If an adopted mitigation measure is not being properly implemented, the designated monitoring personnel shall require corrective actions to ensure adequate implementation.

Reporting consists of establishing a record that a mitigation measure is being implemented, and generally involves the following steps:

- The City distributes reporting forms to the appropriate entities for verification of compliance.
- Departments/agencies with reporting responsibilities will review the Initial Study/Mitigated Negative Declaration, which provides general background information on the reasons for including specified mitigation measures.
- Problems or exceptions to compliance will be addressed to the City as appropriate.
- Periodic meetings may be held during project implementation to report on compliance of mitigation measures.
- Responsible parties provide the City with verification that monitoring has been conducted and ensure, as applicable, that mitigation measures have been implemented. Monitoring compliance may be documented through existing review and approval programs such as field inspection reports and plan review.

- The City prepares a reporting form periodically during the construction phase and an annual report summarizing all project mitigation monitoring efforts.

- Appropriate mitigation measures will be included in construction documents and/or conditions of permits/approvals.

Minor changes to the MMRP, if required, would be made in accordance with CEQA and would be permitted after further review and approval by the City. Such changes could include reassignment of monitoring and reporting responsibilities, plan redesign to make any appropriate improvements, and/or modification, substitution, or deletion of mitigation measures subject to conditions described in CEQA Guidelines Section 15162. No changes will be permitted unless the MMRP continues to satisfy the requirements of Public Resources Code Section 21081.6.

Table 1
Mitigation Monitoring and Reporting Checklist

Mitigation Number	Mitigation Measure	Implementation Responsibility	Timing	Monitoring Responsibility	Timing	Verification of Compliance		
						Initials	Date	Remarks
4.5 CULTURAL RESOURCES								
CUL-1	Unanticipated Discovery of Cultural Resources. If previously unidentified cultural resources are encountered during ground-disturbing activities, work in the immediate area shall halt and a qualified archaeologist, defined as an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards for archaeology, shall be contacted immediately to evaluate the find. If the discovery proves to be significant under CEQA, additional work such as data recovery excavation may be warranted to mitigate any significant impacts. In the event that an identified cultural resource is of Native American origin, the qualified archaeologist shall consult with the project owner and City of Carson to implement Native American consultation procedures. Construction shall not resume until the qualified archaeologist states in writing that the proposed construction activities would not significantly damage any archaeological resources.	Construction Contractor; Qualified Archaeologist	During Ground-Disturbing Activities	City of Carson Community Development Department	During Ground-Disturbing Activities			
4.7 GEOLOGY AND SOILS								
GEO-1	If evidence of subsurface paleontological resources is found during construction, excavation and other construction activity in that area shall cease and the construction contractor	Construction Contractor; Certified Paleontologist	During Ground-Disturbing Activities	City of Carson Community Development Director	During Ground-Disturbing Activities			

Mitigation Number	Mitigation Measure	Implementation Responsibility	Timing	Monitoring Responsibility	Timing	Verification of Compliance		
						Initials	Date	Remarks
	shall contact the City of Carson Community Development Director. With direction from the Community Development Director, a paleontologist certified by the County of Los Angeles shall evaluate the find prior to resuming grading in the immediate vicinity of the find. If warranted, the paleontologist shall prepare and complete a standard Paleontological Resources Mitigation Program for the salvage and curation of identified resources.							
4.10 HAZARDS AND HAZARDOUS MATERIALS								
HAZ-1	Soil Vapor Sampling. The Applicant shall retain a qualified Phase II/Site Characterization Specialist to conduct verification soil vapor sampling during any excavation activities at depth that which would present a concern to worker safety. Should any samples determine that residual contamination in soil vapor present a risk to construction workers during excavation activities, the Phase II/Site Characterization Specialist shall have the authority to either implement additional safety precautions and/or temporarily suspend construction activity at said location for the protection of workers or the public.	Construction Contractor; Qualified Phase II/Site Characterization Specialist	During Grading Activities at Depth that which would present a concern to worker safety	City of Carson Community Development Director	During Grading Activities at Depth that which would present a concern to worker safety			
HAZ-2	Unknown Subsurface Infrastructure. Observations shall be made by the contractor during grading and utility trenching for the presence of unknown pipelines, buried infrastructures, containers, debris, and/or soil potentially impacted by chemicals compounds	Construction Contractor; Qualified Phase II/Site Characterization Specialist	During Grading and Utility Trenching Activities	City of Carson Community Development Director	During Grading and Utility Trenching Activities			

Mitigation Number	Mitigation Measure	Implementation Responsibility	Timing	Monitoring Responsibility	Timing	Verification of Compliance		
						Initials	Date	Remarks
	or fuel and oil hydrocarbons. Indications of impacted soil may include chemical or fuel odors, unusual coloration, apparent moisture, and staining. If any of the above are encountered, a qualified environmental professional with Phase II/Site Characterization experience shall be consulted to provide field monitoring using appropriate instrumentation, and to assist with segregation of excavated material for proper disposal at a licensed waste-handling facility.							
4.13 NOISE								
NOI-1	Prior to the initiation of construction, the Applicant shall prepare a paving control plan to ensure that the paving process does not result in damage to the western and southern industrial structures. The paving control plan shall be subject to the Building and Safety Department's approval prior to issuance of a grading permit. To reduce groundborne vibration levels, the paving control plan shall stipulate that static (non-vibratory) rollers shall be used as an alternative to vibratory rollers within 15 feet of the western and southern Poly One Corporation industrial structures (Assessor's Parcel Number [APN] 7315-008-022).	Project Applicant or Construction Contractor	Prior to Issuance of Grading Permit; During Construction Activities	City of Carson Engineer	Prior to Issuance of Grading Permit; During Construction Activities			
4.17 TRANSPORTATION								
TRA-1	Prior to the project operations, the project Applicant shall enter into an Operational Labor Agreement with the City of Carson to implement	Project Applicant or Future Property Owner	Prior to Issuance of Certificate of	City of Carson Traffic Engineer	Prior to Issuance of Certificate of			

Mitigation Number	Mitigation Measure	Implementation Responsibility	Timing	Monitoring Responsibility	Timing	Verification of Compliance		
						Initials	Date	Remarks
	a local hiring program consisting of reasonable efforts such as local job fairs and to reduce employee vehicle miles travelled (VMT) to the City's threshold of 16.7 VMT per Employee or less. The Operational Labor Agreement shall specify that the Property Owner, or designee, provides to the City Traffic Engineer on an annual basis an Employee VMT Monitoring Table, or other VMT monitoring system, as approved by the City Traffic Engineer, that identifies commute distance bins and the proportion of employees within each bin to determine the project's average home-based work VMT per employee. A sample Employee VMT Monitoring Table is included as Attachment B of the Panattoni Warehouse Project: Vehicle Miles Traveled Analysis, prepared by Fehr and Peers, dated May 19, 2020. The Employee VMT Monitoring Table, or other approved VMT monitoring system, shall be approved by the City of Carson Traffic Engineer prior to project operations. If, through preparation of the Employee Monitoring Table, or other approved VMT monitoring system, it is determined that the project would still exceed the City's threshold of 16.7 VMT per Employee, the project Applicant shall be responsible for identifying and implementing travel demand measures to demonstrate the project's VMT per employee are reduced to less than significant levels. These measures may include, but are not		Occupancy and During Project Operations		Occupancy and During Project Operations			

Mitigation Number	Mitigation Measure	Implementation Responsibility	Timing	Monitoring Responsibility	Timing	Verification of Compliance		
						Initials	Date	Remarks
	limited to, identifying and paying for off-street parking, providing transit passes to employees, providing commuter incentives, providing transit subsidies, providing parking cash-outs, commute marketing program, or implementing carpool/vanpool incentives. The project Applicant shall be responsible for demonstrating the effectiveness of these measures through the VMT monitoring system to reduce the project's VMT per employee to the City's threshold of 16.7, as verified by the City Traffic Engineer. Should the City of Carson adopt a VMT threshold, the project Applicant or future Property Owner has the option to submit an updated VMT analysis to the City Engineer for review and approval. Should the VMT analysis show that the project is less than significant per the City's adopted VMT threshold, this mitigation measure shall no longer apply. Should an updated VMT analysis determine that the project has the potential to impact State transportation facilities, the Applicant shall submit the TMP for review and comment by Caltrans, prior to approval by the City Engineer.							
TRA-2	Prior to the initiation of construction, the project Applicant shall prepare a Traffic Management Plan (TMP) for approval by the City of Carson Traffic Engineer. Should a Caltrans transportation permit be required for the project, the Applicant shall submit the TMP for review	Project Applicant or Construction Contractor	Prior to Issuance of Grading Permit; Project Specifications; During	City of Carson Traffic Engineer	Prior to Issuance of Grading Permit; Project Specifications; During			

Mitigation Number	Mitigation Measure	Implementation Responsibility	Timing	Monitoring Responsibility	Timing	Verification of Compliance		
						Initials	Date	Remarks
	and comment by Caltrans, prior to approval by the City of Carson Traffic Engineer. The TMP shall include measures such as construction signage, limitations on timing for lane closures to avoid peak hours, temporary striping plans, and the need for a construction flagperson to direct traffic during heavy equipment use. The TMP shall specify that one direction of travel in each direction must always be maintained for East 223rd Street throughout project construction. The TMP shall be incorporated into project specifications for verification prior to final plan approval.		Construction Activities		Construction Activities			
4.18 TRIBAL CULTURAL RESOURCES								
TCR-1	Prior to issuance of any grading permits, the project Applicant shall be required to retain and compensate for the services of a Tribal monitor/consultant who is both approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government and is listed under the Native American Heritage Commission's (NAHC's) Tribal Contact list for the area of the project location. This list is provided by the NAHC. The monitor/ consultant shall be present on-site during the construction phases that involves ground disturbing activities. Ground disturbing activities are defined by the Gabrieleño Band of Mission Indians-Kizh Nation as activities that may include, but are not limited to, pavement removal, pot-holing or auguring, grubbing, tree removals, boring, grading, excavation, drilling, and trenching within the	Project Applicant; Construction Contractor; Approved Tribal Monitor/ Consultant; Qualified Archaeologist	Prior to Issuance of Grading Permit; During Ground-Disturbing Activities	City of Carson Community Development Director/ County Coroner (if necessary)	Prior to Issuance of Grading Permit; During Ground-Disturbing Activities			

Mitigation Number	Mitigation Measure	Implementation Responsibility	Timing	Monitoring Responsibility	Timing	Verification of Compliance		
						Initials	Date	Remarks
	project area. The Tribal Monitor/consultant shall complete daily monitoring logs that provide descriptions of the day's activities, including construction activities, locations, soil, and any cultural materials identified. The on-site monitoring shall end when the project site grading and excavation activities are completed, or when the Tribal Representatives and monitor/consultant have indicated that the site has a low potential for impacting Tribal Cultural Resources. Upon discovery of any tribal cultural or archaeological resources, all construction activities shall cease in the immediate vicinity of the find until the find can be assessed. All tribal cultural and archaeological resources unearthed by project construction activities shall be evaluated by the qualified archaeologist (Mitigation Measure CUL-1) and the tribal monitor/consultant. If the resources are Native American in origin, the Gabrieleño Band of Mission Indians-Kizh Nation shall coordinate with the landowner regarding treatment and curation of these resources. Typically, the Tribe requests preservation in place or recovery for educational purposes. Work may continue on other parts of the project while evaluation and, if necessary, additional protective mitigation takes place (CEQA Guidelines Section15064.5 [f]). If a resource is determined by the qualified archaeologist to constitute a "historical resource" or "unique archaeological resource"							

Mitigation Number	Mitigation Measure	Implementation Responsibility	Timing	Monitoring Responsibility	Timing	Verification of Compliance		
						Initials	Date	Remarks
	(per Mitigation Measure CUL-1), time allotment and funding sufficient to allow for implementation of avoidance measures, or appropriate mitigation, must be made available by the Applicant. The treatment plan established for the resources shall be in accordance with CEQA Guidelines Section 15064.5(f) for historical resources. Preservation in place (i.e., avoidance) is the preferred manner of treatment. If preservation in place is not feasible, treatment may include implementation of archaeological data recovery excavations to remove the resource along with subsequent laboratory processing and analysis. All Tribal Cultural Resources shall be returned to the Tribe. Any historic archaeological material that is not Native American in origin shall be curated at a public, nonprofit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to the Tribe or a local school or historical society in the area for educational purposes. Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, or associated grave goods defined in PRC							

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	5097.98, are also to be treated according to this statute. Health and Safety Code 7050.5 dictates that any discoveries of human skeletal material shall be immediately reported to the County Coroner and excavation halted until the coroner has determined the nature of the remains. If the coroner recognizes the human remains to be those of a Native American or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission (NAHC) and PRC 5097.98 shall be followed. Upon discovery of human remains, the tribal monitor/consultant and/or qualified archaeologist (Mitigation Measure CUL-1) shall immediately divert work at minimum of 150 feet and place an exclusion zone around the discovery location. The monitor/consultant(s) shall then notify the Tribe, the qualified lead archaeologist, and the construction manager who shall call the coroner. Work shall continue to be diverted while the coroner determines whether the remains are human and subsequently Native American. The discovery is to be kept confidential and secure to prevent any further disturbance. If the finds are determined to be Native American, the coroner shall notify the NAHC as mandated by state law who shall then appoint a Most Likely Descendent (MLD).							

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	If the Gabrieleno Band of Mission Indians – Kizh Nation is designated MLD, the Koo-nas-gna Burial Policy shall be implemented. To the Tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, Tribal Traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects. Prior to the continuation of ground disturbing activities, the land owner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects. In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains shall be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard shall							

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	be posted outside of working hours. Every effort to diverting the project and keep the remains in situ and protected shall be made. However, if the project cannot be diverted, burials can then be removed, as approved by the Tribe. The Tribe shall work closely with the qualified archaeologist to ensure that the excavation is treated carefully, ethically, and respectfully. If data recovery is approved by the Tribe, documentation shall be taken which includes at a minimum detailed descriptive notes and sketches. Additional types of documentation shall be approved by the Tribe for data recovery purposes. Cremations shall either be removed in bulk or by means as necessary to ensure complete recovery of all material. If the discovery of human remains includes four or more burials, the location is considered a cemetery and a separate treatment plan shall be created. Once complete, a final report of all activities is to be submitted to the Tribe and the NAHC. The Tribe does not authorize any scientific study or the utilization of any invasive and/or destructive diagnostics on human remains, in accordance with existing laws and regulations. Each occurrence of human remains and associated funerary objects shall be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony shall be removed to a secure container on site if possible. These items shall							

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	be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the project site but at a location agreed upon between the Tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered. Archaeological and Native American monitoring and excavation during construction shall be consistent with current professional standards. All feasible care to avoid any unnecessary disturbance, physical modification, or separation of human remains and associated funerary objects shall be taken. Principal personnel must meet the Secretary of Interior standards for archaeology and have a minimum of 10 years of experience as a principal investigator working with Native American archaeological sites in southern California. The qualified archaeologist (Mitigation Measure CUL-1) shall ensure that all other personnel are appropriately trained and qualified.							