Appendix 9.7
Greenhouse Gas Emissions Data

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GREENHOUSE GAS TECHNICAL REPORT

GARDENA TRANSIT-ORIENTED DEVELOPMENT (TOD) SPECIFIC PLAN GARDENA, CALIFORNIA

RAMBOLL

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ACRONYMS AND ABBREVIATIONS

AB:	assembly bill
ATCM:	airborne toxic control measures
CalEEMod®:	California Emission Estimator Model
CAP:	Climate Action Plan
CARB:	California Air Resources Board
CEQA:	California Environmental Quality Act
CFCs:	chlorofluorocarbons
CH_4:	methane
CO_2:	carbon dioxide
CO_2e:	carbon dioxide equivalents
EMFAC:	ARB's on-road mobile source emission factor model
EV:	Electric Vehicle
GHG:	greenhouse gas
GWP:	global warming potential
HFCs:	hydrofluorocarbons
lbs:	pounds
MSW:	municipal solid waste
MT:	metric ton
MWh:	megawatt-hour
N_2O:	nitrous oxide
OFFROAD:	ARB's off-road mobile source emission factor model
RTP:	regional transportation plan
SB:	senate bill
SBCCOG:	South Bay Cities Council of Governments
SCAB:	South Coast Air Basin
SCAG:	Southern California Association of Governments
SCAQMD:	South Coast Air Quality Management District
SCE:	Southern California Edison
SCS:	sustainable communities strategy
TOD:	Transit-Oriented Development
VMT:	vehicle miles travelled

EXECUTIVE SUMMARY

The Gardena Transit-Oriented Development (TOD) Specific Plan (the Project) is a proposed residential development in the City of Gardena that involves the demolition of the existing one-story commercial building, and construction of a new multi-family building with up to 265 dwelling units. The Project Site is located on a 1.33-acre parcel at 12850 & 12900 Crenshaw Boulevard, Gardena, California. The proposed Project is expected to be built out by 2023, with construction beginning in in 2021.

The Project will result in one-time and annual direct and indirect emissions of greenhouse gases (GHGs). The term, "direct emissions of GHGs" refers to GHGs that are emitted directly as a result of the project and include land use change and construction emissions. Indirect emissions are those emissions that the project entitlement will enable, but are not controlled by the project proponent. This report provides an inventory surveying the emissions that would result from the Project.

Residents and the employees and patrons of commercial and municipal buildings and services use electricity, heating, and are transported by motor vehicles. These activities directly or indirectly emit GHGs. The most significant GHG emissions resulting from developments such as the Project are emissions of carbon dioxide (CO_2), methane (CH_4) and nitrous oxide (N_2O). GHG emissions are typically measured in terms of metric tons of CO_2 equivalents (CO_2e), calculated as the product of the mass emitted of a given GHG and its specific global warming potential (GWP).

The GHG emissions inventory for this analysis includes the following sources of emissions: energy use associated with the residential building, mobile sources, area sources, solid waste, water and wastewater, construction, and vegetation changes. The ongoing operational emissions consist of the first five categories, while the one-time emissions are associated with the construction and vegetation changes. This report includes the direct emissions associated with the development as well as the indirect emissions that may result from the development. These indirect emissions are associated with electricity generation, the embodied energy used in supplying potable water, and emissions associated with solid waste disposal. The electrical power for the Project will be supplied by Southern California Edison (SCE). Accordingly, indirect GHG emissions from electricity usage associated with the Project is calculated using the SCE carbon-intensity factor which has accounted for renewable portfolio standards (RPS) per the SCE 2019 Sustainability Report.[1]

This analysis primarily utilized the California Emission Estimator Model version 2016.3.2 (CalEEMod®) to assist in quantifying the Project GHG emissions inventories.[2] CalEEMod® is a statewide program designed to calculate both criteria and GHG emissions from development projects in California. Third-party studies were also relied upon to support analyses and assumptions made outside of CalEEMod®.

At this time, there are no adopted numeric thresholds that govern the determination of the significance of the Project's GHG emissions. The South Coast Air Quality Management District (SCAQMD or District) has adopted neither a methodology to quantify nor a significance

[1] SCE 2019 Sustainability Report. Available at: https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf. Accessed: April 2020.

[2] SCAQMD, 2016, California Emissions Estimator Model. Available at: http://www.CalEEMod.com/. Accessed: April 2020.

threshold for GHG emissions for development projects.[3] However, the District did release draft thresholds in September 2008 for discussion purposes.

The analysis in this report assesses significance of the proposed Project's GHG impacts by evaluating the proposed Project's consistency with AB 32 and SB 32, Senate Bill 375 (SB 375), and the City of Gardena Climate Action Plan. In addition, the report also quantifies the Project's GHG emission inventory. **Table ES-1** presents the proposed Project's annual average GHG emissions in metric tons of carbon dioxide equivalents per year. Both one-time emissions and indirect emissions are expected to occur each year after build-out of the Project. One-time emissions from construction and vegetation removal were amortized over a 30-year period because no significance threshold has been adopted for construction GHG emissions.[4] The Project emissions inventory includes the Project's commitments to reduce GHG emissions such as the installation of seven electric vehicle charging stations and TDM measures (e.g., unbundled parking, pre-leasing for area employees, transit information, on-site residential bicycle parking, and ride-sharing pickup and dropoff). The inventory also accounts for regulatory requirements, which include regulations such as the implementation of the Renewables Portfolio Standard and the Advanced Clean Cars program mandating higher fuel efficiency standards for light-duty vehicles. **Table ES-1** also presents the GHG emissions inventory for the existing conditions. As shown in the table, the proposed Project would result in a net decrease in GHG emissions as compared to the existing conditions. In addition, the Project is consistent with AB 32 and SB 32, the SCAG 2020 RTP/SCS (and thus SB 375), and the City of Gardena Climate Action Plan. Hence, the proposed Project's GHG impacts are less than significant.

[3] SCAQMD has adopted interim significance thresholds for industrial sources of 10,000 metric tons of carbon dioxide equivalents per year. The Board adopted these December 5, 2008.

[4] This approach to one-time construction and vegetation change GHG emissions is based on the GHG Threshold Working Group Meeting #13 Minutes from August 26, 2009. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-13/ghg-meeting-13-minutes.pdf?sfvrsn=2. Accessed: April 2020

1. INTRODUCTION

The purpose of this technical report is to present the quantitative analyses that were used to evaluate the Project's greenhouse gas (GHG) emissions. Emissions during both construction and operations of the Project were quantified. Legislation and rules regarding climate change, as well as scientific understanding of the extent to which different activities emit GHGs, continue to evolve; as such, the inventory in this report is a reflection of the guidance and knowledge currently available.

1.1 Project Description

The Gardena Transit-Oriented Development (TOD) Specific Plan (the "Project") is a residential development plan in the City of Gardena, California that involves the demolition of the existing one-story building, and construction of a new multi-family residential housing building with up to 265 dwelling units. The Project site is located on a 1.33-acre parcel at 12850 & 12900 Crenshaw Boulevard, Gardena California. **Table 1** summarizes the land uses for the proposed Project.

Analysis of the proposed Project's GHG emissions incorporates the following regulatory measures:

Regulatory Measures

- The CO_2e intensity from Southern California Edison (SCE) incorporates the progress made by the utility towards meeting the requirements of the Renewable Portfolio Standard (RPS).
- State and federal regulations aimed at lowering fleet average emission rates such as California's Advanced Clean Car Program, the Tractor-Trailer Greenhouse Gas regulation and federal heavy-duty vehicle GHG regulations are included in vehicle emissions estimate for the Project.[5]
- Compliance with SCAQMD Rule 445 regarding Wood-Burning Devices. This rule limits the installation of wood-burning device into any new development. Therefore, all cooking stoves and fireplaces are assumed to be natural gas burning.
- New residential and non-residential buildings will meet the 2019 Title 24 Part 6 building code.

Project Design Features

The following project design features were incorporated into the analysis, which are described in the inventory:

- The proposed Project will install seven (7) Level 2 electric vehicle charging stations in the parking structure for the building tenants.
- The proposed Project will implement transportation demand management (TDM) strategies in the Gardena Transit-Oriented Development Specific Plan (GTODSP) area to advance the vision for multi-modal transportation. These strategies include:

[5] As stated in the EMFAC2014 technical documentation. Available at: https://ww3.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf. Accessed: April 2020.

- **Unbundled Parking**: There shall be a charge for parking spaces. The property owner shall unbundle automobile parking charges from the rents or other fees charged for leasing residential units in the specific plan area.
- **Pre-Leasing for Area Employees**: Residential units within the specific plan area shall be marketed exclusively for a thirty-day period to employees working within a one-half mile radius of the development, before the units are offered for rent to the general public. The developer shall submit a pre-leasing marketing plan to the Community Development Director for review and approval prior to issuance of a temporary certificate of occupancy. The developer must then demonstrate compliance with the approved thirty-day exclusive marketing plan prior to issuance of a final certificate of occupancy.
- **Transit Information**: To ensure that residential tenants are aware of transit options and TDM programs available to them, an information board or kiosk shall be posted in a central location in the building.
- **One-time Free Monthly Transit Pass**: The developer shall offer future residents a one-time monthly Metro transit pass to encourage and help facilitate a culture of transit use by Project residents.
- **On-site Residential Bicycle Parking**: One bicycle parking space shall be provided per every two residential units (located in secured facilities accessible only by residents). All bicycle parking shall be located in a safe, convenient location, encouraging the use of bicycle transportation by residents and guests.
- **Ride-Sharing Pick-Up/Drop-Off**: A designated loading area within the GTODSP shall be signed and distinguished (e.g., with paving and/or paint) so that it may be utilized as a pick-up and drop-off zone for ride-sharing services.

- The proposed Project will install a solar swimming pool heating system.

1.2 Existing Conditions

Existing land uses within the Project Site include a one-story warehouse building and surface parking lot. **Table 2** lists the existing land use and building square footage. The GHG emission inventory for the existing land use was estimated using CalEEMod® as described in Section 3 and is shown in **Table ES-1**.

2. DRAFT SIGNIFICANCE THRESHOLDS AND REGULATORY BACKGROUND

2.1 Regulatory Setting

The following regulations relate to the assessment of the proposed Project's GHG impacts.

2.1.1 Assembly Bill 32

Assembly Bill (AB) 32 (Nunez, 2006), the California Global Warming Solutions Act of 2006, was enacted after considerable study and expert testimony before the Legislature. The heart of AB 32 is the requirement that statewide GHG emissions be reduced to 1990 levels by 2020. In order to achieve this reduction mandate, AB 32 requires California Air Resources Board to adopt rules and regulations in an open public process that achieves the maximum technologically feasible and cost-effective GHG reductions.

In 2007, CARB approved a statewide limit on the GHG emissions level for year 2020 consistent with the determined 1990 baseline. CARB's adoption of this limit is in accordance with Health & Safety Code Section 38550, as codified through enactment of AB 32.

Per Health & Safety Code Section 38561(b), CARB also is required to prepare, approve and amend a scoping plan that identifies and makes recommendations on "direct emission reduction measures, alternative compliance mechanisms, market-based compliance mechanisms, and potential monetary and nonmonetary incentives for sources and categories of sources that [CARB] finds are necessary or desirable to facilitate the achievement of the maximum feasible and cost-effective reductions of greenhouse gas emissions by 2020."

2008 Scoping Plan

In 2008, CARB adopted the *Climate Change Scoping Plan: A Framework for Change* (2008 Scoping Plan) in accordance with Health & Safety Code Section 38561. During the development of the 2008 Scoping Plan, CARB created a planning framework that is comprised of eight emissions sectors: (1) transportation; (2) electricity; (3) commercial and residential; (4) industry; (5) recycling and waste; (6) high global warming potential (GWP) gases; (7) agriculture; and, (8) forest net emissions.

The 2008 Scoping Plan establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions from the eight emissions sectors to 1990 levels by 2020. In the Scoping Plan, CARB determined that achieving the 1990 emissions level in 2020 would require a reduction in GHG emissions of approximately 28.5 percent from the otherwise projected 2020 emissions level; i.e., those emissions that would occur in 2020, absent GHG-reducing laws and regulations (referred to as "Business-As-Usual" [BAU]).[6] For example, in further explaining CARB's BAU methodology, CARB assumed that all new electricity generation would be supplied by natural gas plants, no further regulatory action would impact vehicle fuel efficiency, and building energy efficiency codes would be held at 2005 standards.

To achieve the necessary GHG reductions to meet AB 32's 2020 target, CARB developed a series of reduction measures in the Scoping Plan covering a range of sectors and activities. Broadly, the reduction measures can be separated into capped sectors (i.e., covered by the Cap-and-Trade Program discussed below) and uncapped sectors.

[6] CARB, Climate Change Scoping Plan: A Framework for Change (December 2008), p. 12.

Multiple Scoping Plan measures broadly cover emissions associated with new residential and commercial land use development, including, but not limited to:

- *Energy Efficiency/Green Buildings.* The Scoping Plan highlights the importance of energy efficiency efforts in reducing GHG emissions from residential and commercial development and indicates that zero net energy (ZNE) should be the overarching and unifying concept for energy efficiency.
- *Regional Transportation-Related GHG Targets (SB 375*). The Scoping Plan relies on Senate Bill (SB) 375, discussed below, as an important mechanism to reduce mobile GHG emissions by integrating land use planning and transportation planning at the regional and local level.
- *Vehicle Emissions*. The Scoping Plan relies on various engine, fuel and other efficiency improvement programs and increasing electrification of the vehicle fleet.
- *Cap-and-Trade Program*. The Scoping Plan identifies the Cap-and-Trade program as a lynchpin, overarching strategy for California to reduce GHG emissions. As explained in the Scoping Plan, the program's implementing regulations provide assurance that California's 2020 limit will be met because the regulation sets a firm limit on 85 percent of California's GHG emissions.

In the 2011 *Final Supplement to the AB 32 Scoping Plan Functional Equivalent Document* (2011 Final Supplement), CARB revised its estimates of the projected 2020 emissions level in light of the economic recession and the availability of updated information about GHG reduction regulations. Based on the new economic data, CARB determined that achieving the 1990 emissions level by 2020 would require a reduction in GHG emissions of 21.7 percent (down from 28.5 percent) from the BAU conditions. When the 2020 emissions level projection also was updated to account for newly implemented regulatory measures, including Pavley I (model years 2009–2016) and the Renewable Portfolio Standard (12 percent to 20 percent), CARB determined that achieving the 1990 emissions level in 2020 would require a reduction in GHG emissions of 16 percent (down from 28.5 percent) from the BAU conditions.

2014 First Update to the Scoping Plan

In 2014, CARB adopted the *First Update to the Climate Change Scoping Plan: Building on the Framework* (2014 First Update).[7] The stated purpose of the 2014 First Update is to "highlight […] California's success to date in reducing its GHG emissions and lay […] the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050."[8] The 2014 First Update found that California is on track to meet the 2020 emissions reduction mandate established by AB 32, and noted that California could reduce emissions further by 2030 to levels squarely in line with those needed to stay on track to reduce emissions to 80 percent below 1990 levels by 2050 if the State realizes the expected benefits of existing policy goals.[9]

In conjunction with the 2014 First Update, CARB identified "six key focus areas comprising major components of the State's economy to evaluate and describe the larger transformative actions that will be needed to meet the State's more expansive emission reduction needs by

[7] Health & Safety Code Section 38561(h) requires CARB to update the Scoping Plan every five years.

[8] CARB, First Update to the Climate Change Scoping Plan: Building on the Framework (May 2014), p. 4.

[9] Id. at p. 34.

2050."[10] Those six areas are: (1) energy; (2) transportation (vehicles/equipment, sustainable communities, housing, fuels, and infrastructure); (3) agriculture; (4) water; (5) waste management; and (6) natural and working lands. The 2014 First Update identifies key recommended actions for each sector that will facilitate achievement of the 2050 reduction target.

Based on CARB's research efforts, it has a "strong sense of the mix of technologies needed to reduce emissions through 2050."[11] Those technologies include energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient and clean energy technologies.

As part of the 2014 First Update, CARB recalculated the State's 1990 emissions level using more recent global warming potentials identified by the IPCC. Using the recalculated 1990 emissions level and the revised 2020 emissions level projection identified in the 2011 Final Supplement, CARB determined that achieving the 1990 emissions level by 2020 would require a reduction in GHG emissions of approximately 15.3 percent (instead of 28.5 percent or 16 percent) from the BAU conditions.

The 2014 First Update included a strong recommendation from CARB for setting a mid-term statewide GHG emissions reduction target. CARB specifically recommended that the mid-term target be consistent with: (i) the United States' pledge to reduce emissions 42 percent below 2005 levels (which translates to a 35 percent reduction from 1990 levels in California); and (ii) the long-term policy goal of reducing emissions to 80 percent below 1990 levels by 2050.

The 2014 First Update discussed new residential and commercial building energy efficiency improvements, specifically identifying progress towards zero net energy buildings as an element of meeting mid-term and long-term GHG reduction goals. The 2014 First Update expressed CARB's commitment to working with the California Public Utilities Commission (CPUC) and CEC to facilitate further achievements in building energy efficiency.

2017 Scoping Plan

In November 2017, CARB published California's 2017 Climate Change Scoping Plan (2017 Scoping Plan), which was subsequently adopted by CARB's Board in December 2017.[12] The 2017 Scoping Plan identifies CARB's strategy for achieving the State's 2030 GHG target as established in SB 32 (discussed below).The strategy includes continuation of the Cap-and-Trade Program through 2030, and incorporates a Mobile Source Strategy that includes strategies targeted to increase zero emission vehicle fleet penetration and a more stringent target for the Low Carbon Fuel Standard by 2030. The 2017 Scoping Plan also incorporates approaches to cutting short-lived climate pollutants (SLCPs) under the Short-Lived Climate Pollutant Reduction Strategy (a planning document that was adopted by CARB in March 2017), and acknowledges the need for reducing emissions in agriculture and highlights the work underway to ensure that California's natural and working lands increasingly sequester carbon.

[10] Id. at p. 6.

[11] Id. at p. 32.

[12] CARB. 2017. California's 2017 Climate Change Scoping Plan. November. Available at: https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf. Accessed: April 2020.

When discussing project-level GHG emissions reduction actions and thresholds, the 2017 Scoping Plan states:

"***Project-Level Greenhouse Gas Emissions Reduction Actions and Thresholds***

Beyond plan-level goals and actions, local governments can also support climate action when considering discretionary approvals and entitlements of individual projects through CEQA [California Environmental Quality Act]. Absent conformity with an adequate geographically-specific GHG reduction plan …, CARB recommends that projects incorporate design features and GHG reduction measures, to the degree feasible, to minimize GHG emissions. Achieving no net additional increase in GHG emissions, resulting in no contribution to GHG impacts, is an appropriate overall objective for new development.

Achieving net zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA.

California's future climate strategy will require increased focus on integrated land use planning to support livable, transit-connected communities, and conservation and other lands. Accommodating population and economic growth through travel- and energy-efficient land use provides GHG-efficient growth, reducing GHGs from both transportation and building energy use. GHGs can be further reduced at the project level through implementing energy-efficient construction and travel demand management approaches."

2.1.1.1 Senate Bill 32 and Assembly Bill 197

Enacted in 2016, SB 32 (Pavley, 2016) codifies the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40 percent below 1990 levels by 2030.

SB 32 was coupled with a companion bill: AB 197 (Garcia, 2016). Designed to improve the transparency of CARB's regulatory and policy-oriented processes, AB 197 created the Joint Legislative Committee on Climate Change Policies, a committee with the responsibility to ascertain facts and make recommendations to the Legislature concerning statewide programs, policies, and investments related to climate change. AB 197 also requires CARB to make certain GHG emissions inventory data publicly available on its web site; consider the social costs of GHG emissions when adopting rules and regulations designed to achieve GHG emission reductions; and, include specified information in all Scoping Plan updates for the emission reduction measures contained therein.

2.1.2 South Coast Air Quality Management District Policies

CEQA Guidelines and Proposed GHG Thresholds

SCAQMD is principally responsible for comprehensive air pollution control in the Basin, which includes Los Angeles, Orange, and the urbanized portions of Riverside and San Bernardino Counties, including the Project site. SCAQMD works directly with Southern California Association of Governments (SCAG), County transportation commissions, and local governments and cooperates actively with all federal and State government agencies to regulate air quality.

In April 2008, SCAQMD convened a Working Group to develop GHG significance thresholds. On December 5, 2008, the SCAQMD Governing Board adopted its staff proposal for an

interim CEQA GHG significance threshold for projects where the SCAQMD is the lead agency. As to all other projects, where the SCAQMD is not the lead agency, the Board has, to date, only adopted an interim threshold of 10,000 $MTCO_2e$ per year for industrial stationary source projects.[13]

For all other projects, SCAQMD staff proposed a multiple tier analysis to determine the appropriate threshold to be used. The draft proposal suggests the following tiers: Tier 1 is any applicable CEQA exemptions, Tier 2 is consistency with a GHG reduction plan, Tier 3 is a screening value or bright line, Tier 4 is a performance-based standard, and Tier 5 is GHG mitigation offsets.[14]

According to the presentation given at the September 28, 2010 Working Group meeting, SCAQMD staff reviewed the tiered significance threshold approach.[15] The proposed tiers are as follows:

Tier 1: Determine if CEQA categorical exemptions are applicable. If not move to Tier 2;

Tier 2: Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan (often called a Climate Action Plan) that has gone through public hearings and CEQA review, which has an approved inventory that includes monitoring, etc. If not move to Tier 3;

Tier 3: For all land use types, if projects are less than 3,000 metric tons/year of CO_2e, the project is presumed to be less than significant for GHGs. If the project exceeds 3,000 metric tons of CO_2 equivalent per year ($MTCO_2e/yr$); move to Tier 4. More specific screening thresholds were also provided, which include 1,400 $MTCO_2e/yr$ for commercial projects and 3,500 $MTCO_2e/yr$ for residential projects. These thresholds were based on a review of the Office of Planning and Research database which included 711 CEQA projects using a 90% capture approach;

Tier 4: The proposed performance standards include three options:

1. Percent Emission Reduction Target (no further recommendation);
2. Early Implementation of Applicable AB 32 Scoping Plan Measures (incorporated into option 3); and
3. SCAQMD Efficiency Target.

For option 3, there are targets for 2020 and 2035, using an approach similar to the BAAQMD Thresholds. The proposed 2020 target is:

- 4.8 MT/year CO_2e per service population for project level threshold (land use employment only); and

[13] South Coast Air Quality Management District, Board Meeting Date: December 5, 2008, Agenda No. 31, Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans for use by the AQMD, website. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgboardsynopsis.pdf?sfvrsn=2http://www.aqmd.gov/hb/2008/December/081231a.htm. Accessed: April 2020.

[14] Ibid.

[15] SCAQMD 2010. CEQA Significance Thresholds Working Group Meeting #15. September 28. Available at http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf?sfvrsn=2. Accessed: April 2020.

- 6.6 MT/year CO_2e per service population for plan level threshold.

The proposed 2035 target is:

- 3.0 MT/year CO_2e per service population for project level threshold;
- 4.1 MT/year CO_2e per service population for plan level threshold; and
- Incorporate Sustainable Communities and Climate Protection Act of 2008 or SB 375 regional targets.

Tier 5: Off-site mitigation for life of project (30 years), if this threshold is to be used, GHG emissions must be mitigated to less than the Tier 3 screening significance threshold. The SCAQMD clarified that offsets should have a 30-year project life, should be real, quantifiable, verifiable, and surplus and will be considered in the following prioritized manner:

- Project design feature/onsite reduction measures;
- Offsite within neighborhood;
- Offsite within district;
- Offsite within state;
- Offsite out of state; and
- Substitution allowed via enforceable commitment (e.g. when an offset project ends prematurely).

If the Project cannot meet any of the Tiers, it is presumed to be significant for GHG emissions.

The Tier 4 percent emission reduction target is based on a percent reduction target that is based on consistency with AB 32. This is because the Tier 4 percent emission reduction target is based on the same numeric reductions calculated in the Scoping Plan to reach 1990 levels by 2020.

The Working Group has not convened since the fall of 2010. As of April 2020, the proposal has not been considered or approved for use by the SCAQMD Board. In the meantime, no GHG significance thresholds are approved for use in the Basin.

2.1.3 Southern California Association of Governments' Regional Transportation Plan/Sustainable Communities Strategy

As previously discussed, SB 375 requires SCAG to incorporate a Sustainable Communities Strategy into its RTP that achieves the GHG emission reduction targets set by CARB. As required by SB 375, CARB adopted year 2020 and 2035 GHG reduction targets for each metropolitan region. The SB 375 targets for the Southern California region under SCAG's jurisdiction in 2020 and 2035 are reductions in per capita GHG emissions of 8 percent and 19 percent, respectively as compared to 2005.[16]

Pursuant to Government Code Section 65080(b)(2)(K), a Sustainable Communities Strategy does not: (i) regulate the use of land; (ii) supersede the land use authority of cities and

[16] CARB. SB 375 Regional Plan Climate Targets. Available at: https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets. Accessed: April 2020.

counties; or (iii) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it.

In April 2016, SCAG adopted the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy: A Plan for Mobility, Accessibility, Sustainability and a High Quality of Life (2016 RTP/SCS).[17] SCAG's 2016 Sustainable Communities Strategy is expected to reduce per capita transportation emissions by 8 percent in 2020, 18 percent in 2035, and 22 percent in 2040 as compared to 2005. In June 2016, CARB accepted SCAG's determination that the 2016 Sustainable Communities Strategy would meet the regions' GHG reduction targets for 2020 and 2035.[18]

In May 2020, SCAG released the Adopted Final 2020-2045 RTP/SCS called Connect SoCal.[19] This update to the RTP/SCS is also expected to meet the state's goal of 19% reductions per capital transportation emissions in 2035 as compared to 2005. This Adopted Final Connect SoCal was adopted by SCAG's Regional Council on May 7, 2020 for conformity purposes only. SCAG approved and fully adopted the final plan on September 3, 2020.

2.1.4 City of Gardena Climate Action Plan

The City of Gardena's Climate Action Plan (CAP)[20] was adopted in December 2017 as a joint effort between the city of Gardena and the South Bay Cities Council of Governments (SBCCOG). The CAP was developed as a guide to reduce GHG emissions by identifying strategies at the local level to help the State meet long-term GHG emission reduction goals. These strategies are separated into five main categories including Land Use and Transportation, Energy Efficiency, Energy Generation, Solid Waste, and Urban Greening.

2.2 Significance Threshold

This Greenhouse Gas Technical Report assesses significance of GHG impacts using four different methodologies. Each of the four methodologies is a separate and independent ground for the significance determination.

First, this report assesses consistency with AB 32 and SB 32 through evaluating the Project's consistency and compliance with applicable statewide and local regulatory programs designed to reduce GHG emissions consistent with AB 32 and SB 32.

Second, this report assesses if the Project is consistent with the City of Gardena CAP. Since these CAP was developed using AB 32, this approach is also an AB 32 compliance pathway.

Third, this report assesses the Project's consistency with SB 375. Consistency with SB 375 was evaluated based on the growth assumptions of Southern California Association of Governments' (SCAG) 2016-2040 Regional Transportation Plan/Sustainable Community Strategy (RTP/SCS).

In addition to the methodologies listed above, this report quantitatively reports the Project's GHG emissions for informational purposes.

[17] Available at: http://scagrtpscs.net/Pages/FINAL2016RTPSCS.aspx. Accessed: April 2020.

[18] CARB, Executive Order G-16-066 (June 2016).

[19] Available at: https://www.connectsocal.org/Pages/Connect-SoCal-Final-Plan.aspx. Accessed: May 2020.

[20] Available at: http://southbaycities.org/sites/default/files/Gardena%20CAP.pdf. Accessed: April 2020.

3. GREENHOUSE GAS EMISSION INVENTORIES

This section describes the methods that Ramboll US Corporation (Ramboll) used to develop the GHG emissions inventories associated with the Project, which include construction emissions and operational emissions. Sub-categories of GHG operational emissions include: vegetation change, area sources, energy use, water and wastewater, solid waste, and mobile sources. These emissions are compared to applicable statewide and local regulatory programs designed to reduce GHG emissions consistent with AB 32. Legislation and rules regarding climate change, as well as the scientific understanding of the extent to which different activities emit GHGs, continue to evolve; as such, the inventories in this report reflect the guidance and knowledge currently available.

3.1 Units of Measurement: Metric Tons of CO_2 and CO_2e

The term "GHGs" includes gases that contribute to the natural greenhouse effect, such as CO_2, CH_4, N_2O, and water, as well as gases that are only man-made and that are emitted through the use of modern industrial products, such as hydrofluorocarbons (HFCs) and chlorofluorocarbons (CFCs). The most important greenhouse gas in human-induced global warming is CO_2. While many gases have much higher GWPs than CO_2, CO_2 is emitted in such vastly higher quantities that it accounts for 81.6% of the GWP of all GHGs emitted by the United States.[21]

The effect each of these gases has on global warming is a combination of the volume of their emissions and their GWP. GWP indicates, on a pound for pound basis, how much a gas will contribute to global warming relative to how much warming would be caused by the same mass of CO_2. CH_4 and N_2O are substantially more potent than CO_2, with GWPs of 25 and 298, respectively. GHG emissions are typically measured in terms of mass of CO_2e. CO_2e are calculated as the product of the mass of a given GHG and its specific GWP.[22]

In many sections of this report, including the final summary sections, emissions are presented in units of CO_2e either because the GWPs of CH_4 and N_2O were accounted for explicitly, or the CH_4 and N_2O are assumed to contribute a negligible amount of GWP when compared to the CO_2 emissions from that particular emissions category.

In this report, emissions are presented as metric tons (1,000 kilograms). Additionally, exact totals presented in all tables and report sections may not equal the sum of components due to independent rounding of numbers.

[21] Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2016, U.S. Environmental Protection Agency. Available online at: https://www.epa.gov/sites/production/files/2018-01/documents/2018_complete_report.pdf. Accessed: April 2020.

[22] In the updated Draft Climate Change Scoping Plan published by CARB in 2014, the GWPs for CH_4 and N_2O were updated from 21 to 25 and from 310 to 298, respectively. This report relies upon the newly proposed GWPs in the Draft Climate Change Scoping Plan.

3.2 Methodology Resources

CalEEMod®

Ramboll primarily utilized the California Emission Estimator Model version 2016.3.2 (CalEEMod®)[23] to assist in quantifying the GHG emissions in the inventories presented in this report for the Project. CalEEMod® is a statewide program designed to calculate both criteria and GHG emissions from development projects in California.

CalEEMod® is based upon CARB-approved Off-Road and On-Road Mobile-Source Emission Factor models (OFFROAD and EMFAC, respectively), and is designed to estimate construction and operational emissions for land use development projects and allows for the input of project specific information. OFFROAD2011[24] is an emissions factor model used to calculate emission rates from off-road mobile sources (e.g., construction equipment, agricultural equipment). EMFAC2014[25] is the emissions factor model used in CalEEMod® to calculate emissions rates from on-road vehicles (e.g., passenger vehicles, haul trucks). Given that a newer version of EMFAC (EMFAC2017) is available and approved, mobile source operational emissions were estimated based on CalEEMod® methodology and EMFAC2017 emission factors along with Project-specific values where available.

CalEEMod® provides a simple platform to calculate both construction emissions and operational emissions from a land use project. It calculates both the daily maximum and annual average for criteria pollutants as well as total or annual GHG emissions. The model also provides default values for water and energy use.

CalEEMod® contains default values and existing regulation methodologies to use in each specific local air district region. Appropriate statewide default values can be utilized if regional default values are not defined. Ramboll used default factors for the Los Angeles County area that is within the SCAQMD jurisdiction for the GHG emission inventory, unless otherwise noted in the methodology descriptions below. Details regarding the specific methodologies used by CalEEMod® can be found in the CalEEMod® User's Guide and associated appendices.[26] The CalEEMod® output files are provided for reference in **Appendix A** to this report.

3.3 Indirect GHG Emissions from Electricity Use

Project-related electricity use results in indirect emissions, due to electricity generation activities occurring at off-site power plant locations. For this Project, electrical power will be supplied to the Project site by Southern California Edison (SCE). The indirect GHG emissions created as a result of Project-related electricity use are estimated through application of the following methodology.

Using CalEEMod®, the electricity intensities are multiplied by the emission intensity factors for the GHGs and are classified as indirect emissions. Emission intensity factors are GHG

[23] California Air Pollution Control Officers Association (CAPCOA). 2017. California Emissions Estimator Model. Available at: http://www.CalEEMod.com/. Accessed: April 2020.

[24] CARB, 2007. Off Road Mobile Source Emission factors. Available at: http://www.arb.ca.gov/msei/msei.htm. Accessed: April 2020.

[25] CARB, 2015. EMFAC 2014 Release (updated May 2015). Available at: https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-v1_0_7-release-notice.pdf. Accessed: April 2020.

[26] SCAQMD, 2016, California Emissions Estimator Model User's Guide. Version 2016.3.2. November 2017. Available at: http://www.caleemod.com/. Accessed: April 2020.

emission rates from a given source relative to the intensity of a specific activity in terms of the amount of GHG released per megawatt of energy produced. The default electricity intensity factors for SCE in CalEEMod® for CO_2, CH_4, and N_2O are 702.44, 0.029, and 0.006 pounds (lbs) per megawatt-hour (MWh), respectively. The CO_2 default factor is based on the 2012 SCE Corporate Responsibility and Sustainability Report.[27] The CH_4 and N_2O default factors are based on CARB's and USEPA's e-Grid values as included in CalEEMod®.[28]

While CalEEMod®'s intensity factors for CH_4 and N_2O were used for this Project, CalEEMod®'s CO_2 intensity factor was modified based on the SCE's 2019 energy delivery data (**Table 3**), to account for the improvements made by SCE towards meeting the requirements of the RPS.[29, 30]

3.4 One-Time Emissions

One-time emissions are those emissions that are not recurring over the life of the project. This includes emissions associated with construction and changes in on-site vegetation. The emission estimation methodology for both construction and vegetation changes are described in this section.

3.4.1 Construction Activities

This section describes the estimation of GHG emissions from construction activities at the Project site.

The major construction phases for the proposed Project included in this analysis are:

- Demolition: involves tearing down of the existing building on the Project site.
- Site Preparation: involves clearing vegetation (grubbing and tree/stump removal) and stones prior to grading.
- Grading: involves the cut and fill of land to ensure the proper base and slope for the construction foundation.
- Building Construction: involves the construction of structures and buildings.
- Architectural Coating: involves the application of coatings to both the interior and exterior of buildings or structures.
- Paving: involves the laying of concrete or asphalt such as in parking lots or roads.

Emissions from these construction phases are largely attributable to fuel use from construction equipment and worker commuting.

Construction-related GHG emissions were estimated using CalEEMod®. Default on-site equipment lists in CalEEMod® supplemented with Project specific modifications were used for

[27] SCE. 2012 Corporate Responsibility and Sustainability Report.

[28] USEPA. eGRID2012 Version 1.0. Year 2009 Summary Table. Available at: https://www.epa.gov/sites/production/files/2015-01/documents/egrid2012v1_0_year09_summarytables.pdf. Accessed: April 2020.

[29] SCE's 2019 intensity factor per total energy delivered. Available at: https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf. Accessed: April 2020.

[30] The CH_4 and N_2O intensity factors from CalEEMod® are based on emissions from California's mix of power generation sources in 2009. As more renewable energy is integrated into the electricity grid, these intensity factors will also decrease.

the various construction phases. CalEEMod® default values were used for equipment and vehicle emission factors, equipment load factors, and vehicle trip lengths.

Ramboll was provided with a construction start date and duration and relied upon CalEEMod® defaults to estimate the phasing schedule and numbers and types of equipment that will be used in each construction phase (i.e., demolition, grading) of the proposed Project. The emission calculations are intended to estimate annual emissions. Each piece of equipment was assumed to operate based on CalEEMod® default assumptions (i.e., load factor and operational hours). The construction is expected to commence in 2021 and is anticipated to be completed in 2023. The construction schedule, equipment list, and grading information are shown in **Table 4**, **Table 5**, and **Table 6**, respectively. Construction emissions are estimated assuming one shift working up to 11 hours per day, for six days in a week. The CalEEMod® output files are included in **Appendix A**.

3.4.1.1 Emissions from Construction Equipment

The emission calculations associated with construction equipment are from off-road equipment engine use based on the equipment list and phase length.

Since the majority of the off-road construction equipment used for construction projects are diesel-fueled, CalEEMod® assumes all of the equipment operates on diesel fuel. The calculations associated with construction equipment include the running exhaust emissions from off-road equipment. Since the equipment is assumed to be diesel, there are no starting or evaporative emissions associated with the equipment as these are *de minimis* for diesel-fueled equipment. CalEEMod® calculates the exhaust emissions based on default values for horsepower and load factor from CARB's OFFROAD2011 model.[31]

The GHG emissions associated with off-road construction equipment are shown in CalEEMod® output files in **Appendix A.** Most of the emissions occur during the building construction phase.

3.4.1.2 GHG Emissions from On-Road Trips

Construction generates on-road vehicle exhaust (including evaporative emissions) from personal vehicles for worker/vendor commuting and trucks for soil/material hauling. These emissions are calculated using CalEEMod® methodology based on the number of trips and vehicle miles traveled (VMT) along with emission factors from EMFAC2017. The numbers of worker and vendor trips represent defaults from CalEEMod® based on the construction equipment to be used. The number of haul trips was estimated based on the volume of soil to be imported and exported as well as the CalEEMod® default assumption for haul truck capacity of 16 cubic yards per truck.

The emissions associated with on-road activities are shown in the tables in **Appendix B**. The worker, vendor, and hauling construction trips emissions were not calculated within CalEEMod® in order to incorporate EMFAC2017 emission factors and CARB SAFE Rule adjustment factors, therefore the CalEEMod® output files show zero for these related

[31] CAPCOA. 2017. California Emissions Estimator Model User's Guide. Appendix A. Page 32. Version 2016.3.2. November. Available at: http://www.caleemod.com. Accessed: April 2020.

emissions. Most of the emissions were estimated to occur from the workers' and vendors' trips during the building construction phase.

3.4.1.3 Total Construction Emissions

The total emissions from Project-related construction activities by calendar year are summarized in **Table 7.** Total GHG emissions from the construction activities are 1,811 MT CO_2e. When amortized over 30-year project lifetime, the construction GHG emissions are 60 MT CO_2e/year.[32] Detailed emission inventories from the CalEEMod® output files are included in **Appendix A.**

3.4.1.4 Regulatory Measures

The construction emissions will comply with the applicable regulations and programs. These include the CARB airborne toxic control measures (ATCM) to limit diesel-fueled commercial motor vehicle idling, CARB in-use Off-Road and On-Road regulations, and the California Cap-and-Trade Program.

3.4.2 Vegetation Changes

This section presents the calculation of GHG emissions associated with any vegetation removal and re-vegetation at the Project site. The existing Project site has a one-story warehouse surrounded by little to no vegetation. Planting trees will sequester CO_2 and is considered to result in a one-time carbon-stock change. Trees sequester CO_2 while they are actively growing. The amount of CO_2 sequestered depends on the type of tree. In this case, new trees will be planted at the Project site. This will result in carbon sequestration. Therefore, planting of new trees results in decrease in overall GHG emissions. GHG emissions associated with planting of new trees are amortized over a 30-year project lifetime (see **Table ES-1**).

3.4.2.1 Regulatory Measures

No applicable regulatory measures related to GHG emissions from vegetation changes were identified.

3.5 Annual Operational Emissions

Operational emissions are emissions that would occur after build-out of the Project. This analysis identifies operational emissions for source categories including direct emissions from area and mobile sources and indirect emissions from energy use, water/wastewater, and waste management.

3.5.1 Area Sources

Area sources are those emission sources that are generally too small to be uniquely identified as point sources and are thus generally aggregated as a group. CalEEMod® estimates emissions for the following sources, which are included under the category of "area" sources: landscaping equipment (e.g., lawn mowers), consumer products, and architectural coatings. There are no GHG emissions from consumer product and architectural coating activities. The area source GHG emissions included in this analysis result from landscaping maintenance equipment related fuel combustion sources, such as lawn mowers. Based on CalEEMod® defaults, all operational days (i.e., 250 days per year) were assumed to

[32] This approach to one-time construction GHG emissions is based on the GHG Threshold Working Group Meeting #13 Minutes from August 26, 2009. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-13/ghg-meeting-13-minutes.pdf?sfvrsn=2. Accessed: April 2020.

be summer days, with no snow days. GHG emissions due to natural gas combustion in buildings are excluded from this section since they are included in the emissions associated with building energy use (described in Section 3.5.2). The GHG emissions for the Project were calculated using CalEEMod® defaults based upon the land uses that will be part of the Project.

The resulting GHG emissions from the use of landscape maintenance equipment can be seen in the CalEEMod® output files in **Appendix A**.

3.5.1.1 Regulatory Measures

No applicable regulatory measures related to GHG emissions from landscape maintenance equipment were identified.

3.5.2 Energy Use

GHGs are emitted from buildings as a result of activities for which electricity and natural gas are typically used as energy sources. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building. GHGs are also emitted during the generation of electricity from fossil fuels; these emissions are considered to be indirect emissions. Climate zone 8 was selected based on the Project location and CalEEMod® forecast climate zone map. As stated in Section 3.3, the proposed Project's GHG emissions from electricity use have been calculated using SCE's 2019 CO_2 intensity emission factor that accounts for the progress made by SCE towards meeting the requirements of RPS (**Table 3**). Ramboll adjusted the default CalEEMod® emission factors for building energy to reflect the requirement that new buildings meet the 2019 Title 24 Part 6 building code. **Table 8** summarizes the CalEEMod® inputs used to model GHG emissions associated with energy use for proposed Project. **Table 9** summarizes the annual electricity demand for the digital billboard for the proposed Project, as estimated by the billboard provider, SNA Displays.

3.5.2.1 Emissions Estimation from Energy Use

As mentioned above, GHGs are emitted from buildings as a result of activities for which electricity and natural gas are typically used as energy sources. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building. Electricity and natural gas use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances.

The proposed Project's CO_2e emissions from electricity and natural gas usage are shown in CalEEMod® output file in **Appendix A** and summarized in **Table ES-1**.

3.5.2.2 Regulatory Measures

In California, Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting.[33] The 2019 Title 24 standards are the currently applicable building energy efficiency standards and became effective on January 1, 2020. In general, high-rise multi-family homes and non-residential uses built to the 2019 standards are anticipated to use about 10.7% less energy for electricity and lighting, 1.0% less natural gas use for heating than those built to the 2016 standards. The Project's GHG emissions

[33] Title 24, Part 6, of the California Code of Regulations: California's Energy Efficiency Standards for Residential and Nonresidential Buildings. Available at: http://www.energy.ca.gov/title24/. Accessed: April 2020.

calculations reflect that the Project is meeting the 2019 Title 24 Part 6 Building Code for residential and non-residential construction.

Emission factors for electricity are dependent on statewide renewable energy generation targets. The RPS established a target of 33% energy from renewable sources for all electricity providers in California by 2020. SCE-specific electricity intensity factors for CO_2, CH_4, and N_2O mass emissions per kilowatt hour are described in **Section 3.3** and Section **3.5.2** were used in this analysis.

3.5.3 Water Supply, Treatment and Distribution

Indirect GHG emissions result from the production of electricity used to convey, treat, and distribute water and wastewater. The amount of electricity required to convey, treat, and distribute water depends on the volume of water as well as the sources of the water. Additional emissions from wastewater treatment include CH_4 and N_2O, which are emitted directly from the wastewater.

CalEEMod® default assumptions were used to represent the proposed Project's total water demand and to calculate the GHG emissions associated with water conveyance, treatment, and distribution, as well as wastewater treatment.

The Project indoor and outdoor water usage's resulting GHG emissions are presented in the CalEEMod® output file in **Appendix A** and summarized in **Table ES-1**.

3.5.3.1 Regulatory Measures

While the Project is expected comply with the California Green Building Code, which requires that indoor potable water use be reduced by 20 percent through the use of water saving fixtures and/or flow restrictors, the analysis conservatively uses the CalEEMod default assumptions to estimate GHG emissions associated with the proposed Project's water usage.

3.5.4 Solid Waste

Municipal solid waste (MSW) is the amount of material that is disposed of by land filling, recycling, or composting. CalEEMod® calculates the indirect GHG emissions associated with waste that is disposed of at a landfill. The program uses annual waste disposal rates from the CalRecycle data for individual land uses. The emission estimates for this Project were based on CalEEMod® default factors. CalEEMod® uses the overall California Waste Stream composition to generate the necessary types of different waste disposed into landfills. The program quantifies the GHG emissions associated with the decomposition of the waste, which generates methane based on the total amount of degradable organic carbon. The program quantifies the CO_2 emissions associated with the combustion of methane, if applicable. Default landfill gas concentrations were used as reported in Section 2.4 of AP-42. The IPCC has a similar method to calculate GHG emissions from MSW in its 2006 Guidelines for National Greenhouse Gas Inventories.

The CalEEMod® solid waste module determines the GHG emissions associated with the disposal of solid waste into landfills, in quantities that are based upon land use type according to waste disposal studies conducted by CalRecycle. For this module, CalEEMod® default values were used since site-specific information was not available. GHG emissions associated with non-landfill diverted waste streams are not considered, because it is generally assumed that these diversions do not result in any appreciable amounts of GHG

emissions when operated effectively.[34] These waste diversion alternatives may result in differences in life-cycle emissions of GHGs, but it is not appropriate to combine life-cycle emissions for only one category of emissions.[35] As mentioned previously, biogenic CO_2 emissions were not included when CARB analyzed the GHG emissions inventory under AB 32. Therefore, they are not included in the Project emissions inventory.

Project GHG emissions from solid waste are presented in **Table ES-1**.

3.5.4.1 Regulatory Measures

While the Project is expected to comply with the state's waste diversion goal of 75% waste diversion by 2020,[36] this analysis conservatively uses the default CalEEMod® assumptions for estimates GHG emissions associated with waste disposal.

3.5.5 Mobile Source Emissions

The GHG emissions associated with on-road mobile sources are generated by employees and trucks visiting the proposed Project. The emissions associated with on-road mobile sources includes running exhaust emissions, starting emissions and idling exhaust emissions. Running exhaust emissions are dependent on VMT. Starting emissions are associated with the number of starts or time between vehicle uses and the assumptions used in determining these values are described below. Idling exhaust emissions are based on the amount of time a vehicle spends idling. All of the other emissions are dependent on VMT. Ramboll used the Project-specific trip rates provided by the Fehr & Peers Transportation Consultants as inputs for the CalEEMod® model run.

3.5.5.1 Vehicle Trip Type

In CalEEMod®, the trip type breakdown describes the purpose of the trip generated at each land use. For example, the trip type breakdown indicates the percentage of trips generated at single family home for work, for shopping, and for other purposes. Two sets of trip type breakdown are used in CalEEMod®.[37]

- **Residential Trips** – These trips include home-work (H-W), home-shop (H-S), or home-other (H-O). An H-W trip represents the trip from the home to the workplace. An H-S trip represents the trip from the home to a land use were shopping takes place (generally retail). An H-O represents all other types of trips generated from the resident such as school, entertainment, etc. The trip type breakdown in CalEEMod® is from district-supplied information or the 1999 Caltrans Statewide Travel Survey is used as default or specific information obtained from the various Districts.
- **Commercial Trips** – These trips include commercial-customer (C-C), commercial-work (C-W) and commercial-nonwork (C-NW). A C-C trip represents a trip made by someone who is visiting the commercial land use to partake in the services offered by the site. The C-W trip represents a trip made by someone who is employed by the commercial land

[34] CARB. 2010. Local Government Operations Protocol. Chapter 9.4.

[35] This inventory represents scope 1 and 2 emission categories. A life-cycle analysis of waste diversion would be a scope 3 inventory. CARB's Local Government Operations Protocol Version 1.1 (May 2010) clearly states that scope 3 emissions should not be combined with scope 1 and 2 emissions.

[36] CalRecycle. 2020. California's 75 Percent Initiative. Available at: http://www.calrecycle.ca.gov/75percent/. Accessed: April 2020.

[37] SCAQMD, 2017, California Emissions Estimator Model User's Guide, Appendix A, page 21. Version 2016.3.2. Available at: http://www.CalEEMod.com/. Accessed: April 2020.

use. The C-NW trip represents a trip associated with the commercial land use other than by customers or workers. An example of C-NW trips includes trips made by delivery vehicles of goods associated with the land use. The trip type breakdown from the number or workers and or truck trips from Institute of Transportation Engineers and an analysis of information provided for the South Coast Air Basin (SCAB) was used as default to assign the trip type breakdowns for all land uses in CalEEMod®.

3.5.5.2 Trip Rates

Trip rates are one of the parameters used to calculate Project mobile source emissions. CalEEMod® relies upon trip generation rates by land use types and associated average trip length by trip type to estimate the air quality and GHG emissions. Project-specific trip rates provided by the *Fehr & Peers Transportation Consultants* were used as input for the CalEEMod® model run. These are presented in **Table 10**.

3.5.5.3 Trip Lengths

Trip lengths are another factor used to calculate Project mobile source emissions. Annual VMT is estimated as a product of annual average trips and trip length for each vehicle type. The default CalEEMod® trip length for the portion of Los Angeles County located within SCAQMD jurisdiction were used.

3.5.5.4 Vehicle Fleet Mix

Vehicle fleet mix is another parameter used to estimate mobile source emissions from Project operation. Each vehicle type has a different emission factor for each pollutant, so CalEEMod® relies upon vehicle fleet mixes by land use type to estimate the GHG emissions for each land use. The CalEEMod® default fleet mix for residential multi-family land use for the portion of Los Angeles County located within SCAQMD jurisdiction was used in this analysis.

3.5.5.5 Estimated Emissions from Mobile Sources

Operational emissions associated with operational mobile sources of the proposed Project are shown in the CalEEMod® output file in **Appendix A** and summarized in **Table ES-1**. The mobile source emissions include trips related to residential multi-family housing as evaluated by CalEEMod®.

3.5.5.6 Regulatory Measures

AB 1493 required that CARB establish GHG emission standards for automobiles, light-duty trucks, and other vehicles determined by CARB to be vehicles whose primary use is non-commercial personal transportation in the state. In addition, the NHTSA and EPA have established corporate fuel economy standards and GHG emission standards, respectively, for automobiles, and light-, medium-, and heavy-duty vehicles. Implementation of these standards and fleet turnover (replacement of older vehicles with newer ones) will gradually reduce emissions from the proposed project's motor vehicles. The effectiveness of fuel economy improvements and the GHG emission standards over time was evaluated by using the EMFAC2014 emission factors for motor vehicles that are built into the CalEEMod® model. As stated in the technical documentation for EMFAC2014, state and federal regulations aimed at lowering fleet average emission rates such as California's Pavley regulation mandating higher fuel efficiency standards for cars and light-duty vehicles, Fuel Standard (LCFS) and the Advanced Clean Car Program, the Tractor-Trailer Greenhouse Gas regulation

and federal heavy-duty vehicle GHG regulations are included in vehicle emissions estimate for the Project.[38]

3.5.6 Stationary Sources

Stationary sources, such as generators, are direct sources of GHG emissions. This analysis conservatively incorporates the stationary source GHG emissions from the maintenance activity of a diesel-powered emergency generator for the proposed project.

The resulting GHG emissions from the stationary source for the project are shown in **Table ES-1.**

3.5.7 Project Design Features

Emission reductions associated with the following project design features were incorporated into the project.

Level 2 EV Charging Stations

The proposed Project will install seven (7) Level 2 electric vehicle charging stations in the parking structure for the building tenants. The installation of EV charging corresponds to a reduction in GHG emissions as quantified in **Table 11** and summarized in **Table ES-1**.

Solar Heating System

The proposed Project will install a solar swimming pool heating system. The emissions savings from the solar swimming pool heating system were not quantified for this analysis.

[38] In 2018, the USEPA and NHTSA proposed to amend certain existing Corporate Average Fuel Economy (CAFE) standards and tailpipe carbon dioxide emissions standards for passenger cars and light trucks and establish new standards, covering model years 2021-2026. Compared to maintaining the post-2020 standards now in place, the pending proposal would increase U.S. fuel consumption. California and other states have announced their intent to challenge federal actions that would delay or eliminate GHG reductions. Because the pending proposal is still in the rulemaking phase, and because legal challenges to any future adoption of the proposal is likely, the timing and consequences of the pending proposal are speculative at this time.

4. ANALYSIS OF CONSISTENCY WITH GHG SIGNIFICANCE THRESHOLDS

This section examines the Project's significance of GHG impacts using four different methodologies. Total project operational GHG emissions are summarized in **Table ES-1**.

4.1 Consistency with AB 32 and SB 32 Regulatory Programs

The Project is consistent and compliant with applicable statewide and local regulatory programs. As discussed above, the Project will be subject to a number of regulatory programs designed to reduce GHG emissions consistent with AB 32 and SB 32. The list below summarizes the regulations and programs related to the emission source categories.

- Energy Use:

  California Title 20 Standards
  California Title 24, Part 6 Standards (2016 and 2019)
  California Title 24, Part 11 Standards
  California Renewable Portfolio Standard (SB X1 2)
  California Cap-and-Trade Program

- Water Supply, Treatment and Distribution:

  Executive Order B-29-15
  California Title 24, Part 11 Standards
  Senate Bill X7-7

- Solid Waste:

  California AB 341 (waste diversion)

- Mobile Sources:

  California AB 1493/Pavley Standards (through model year 2025)
  California Advanced Clean Cars Standards (through model year 2025)
  California Low Carbon Fuel Standard
  USEPA/NHTSA CAFÉ Standards (through model year 2018)
  California Cap-and-Trade Program

- Construction:

  CARB In-Use Off-Road Regulation
  CARB In-Use On-Road Heavy-Duty Diesel Vehicles Regulation
  California Cap-and-Trade Program

4.2 Consistency Evaluation with City of Gardena CAP

The proposed Project is consistent with the primary goals and strategies in the City of Gardena's CAP and, would therefore, result in a less-than-significant GHG impact. The City of Gardena's CAP seeks to identify community-wide strategies to lower GHG emissions, which maintains the Energy Efficiency Climate Action Plan (EECAP) previously adopted by the City of Gardena. The Project is consistent with the CAP's primary strategies that related to land use development, including land use and transportation, energy efficiency, solid waste, and urban greening. **Appendix C** details the proposed Project's consistency with the City of Gardena CAP.

4.3 Consistency Evaluation with SB 375 (SCAG RTP/SCS)

The Southern California Association of Governments (SCAG) RTP is a long-range transportation plan that is developed and updated by SCAG every four years. The RTP provides a vision for transportation investments throughout the region. The SCS will integrate land use and transportation strategies that will achieve GHG emissions reduction targets that are forecasted to achieve reduction in GHG emissions to achieve the state's 2035 and 2040 GHG reduction goals.[39]

The 2020 RTP/SCS projects an increase of 1.6 million households in the region from 2016 to 2045 (the projected increase for Los Angeles County between 2020 and 2030, which is the period in which the project would be built out, is 277,000 households). The Project has up to 265 households, which is <0.02% of the projected household growth for the region and <0.1% of the projected household growth for Los Angeles County. Therefore, the Project is consistent with SCAG's 2020 RTP/SCS and the SCAQMD 2016 AQMP.

4.4 Quantitative Analysis

The GHG emission inventory for the proposed Project and existing uses are presented in **Table ES-1**. As shown in the table, the proposed Project would result in a small increase in GHG emissions as compared to the existing conditions. The City of Gardena and the SCAQMD have not adopted a GHG threshold specific to this project. The SCAQMD Working Group had discussed a "bright-line" screening-level threshold of 3,000 metric tons of carbon dioxide equivalent ($MTCO_2e$) annually for residential and commercial projects or 3,500 $MTCO_2e$ for residential only projects, however, it was not formally adopted.[40] For comparison purposes, the net new emissions are less than 100 $MTCO_2e$.

[39] 2020. The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments. May. Available at: https://www.connectsocal.org/Pages/Connect-SoCal-Final-Plan.aspx. Accessed: May 2020.

[40] 2008. SCAQMD Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf. Accessed: October 2020.

TABLES

Table ES-1. Summary of GHG Emissions
Gardena TOD Specific Plan
Gardena, California

Emission Source	Annual Average GHG Emissions[1,2,3] ($MT CO_2e$/year)	
	Proposed Project	Existing Conditions
Area Sources	5	0
Energy Usage	593	29
Water	108	25
Waste Disposed	61	11
Traffic	1,663	2,243
EV Charging Stations[4]	*-100*	--
Stationary	7	--
Operational Sub-Total	*2,337*	*2,309*
Construction Amortized[5]	60	--
Vegetation[5]	-1	--
Total[6]	2,397	2,309
Net GHG Emissions (Proposed Project minus Existing Conditions)	88	

Notes:

[1] Operational emissions (from area sources, energy use, water use, waste disposed and mobile sources) and one-time emissions (from construction and vegetation) were calculated using CalEEMod®. Refer to Appendix A for further details.

[2] Emissions are presented as CO_2e, which include CO_2, CH_4, and N_2O emissions, weighted by their respective global warming potentials.

[3] Numbers are rounded for reporting purposes.

[4] Emissions reductions associated with EV charging stations are shown as negative values due to the decrease in emissions. Refer to Table 10 for details on emission reduction estimation.

[5] One-time emissions from construction and vegetation sequestration were amortized over a 30-year period.

[6] Sum of annualized one-time emissions and operational emissions may not add up due to rounding.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
CH_4 - methane
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalents
EV - electric vehicle
GHG - greenhouse gases
MT - metric tons
N_2O - nitrous oxide
yr - year

Table 1. Project Land Uses
Gardena TOD Specific Plan
Gardena, California

Project Land Use	CalEEMod® Land Use Type	CalEEMod® Land Use Subtype[1]	Land Use Size	Land Use Size Metric
Multi-Family Housing	Residential	Mid-Rise Apartments	265	DU
Unenclosed Parking	Parking	Unenclosed Parking w/Elevator	275	spaces

Notes:
[1] Land uses as defined in CalEEMod®.

Abbreviations:
CalEEMod® - California Emissions Estimator Model
DU - dwelling unit

Table 2. Existing Land Uses
Gardena TOD Specific Plan
Gardena, California

Project Land Use	CalEEMod® Land Use Type	CalEEMod® Land Use Subtype[1]	Land Use Size	Land Use Size Metric
Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	24.00	1000 sqft

Notes:
[1] Land uses as defined in CalEEMod®.

Abbreviations:
CalEEMod® - California Emissions Estimator Model
sqft - square feet

Table 3. Carbon dioxide Intensity Factor for Electricity Provided by Southern California Edison
Gardena TOD Specific Plan
Gardena, California

Energy Delivered [MWh]		
	2019	**Units**
CO_2 Intensity Factor per Total Energy Delivered[1]	534	lbs CO_2/MWh delivered
% of Total Energy From Renewables[2]	35.0%	

Notes:

[1] 2019 intensity factor per total energy delivered available at: https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf. Accessed: June 2020.

[2] Percent of total energy from RPS-eligible renewables are from the SCE 2019 Sustainability Report. Available at: https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf. Accessed: June 2020.

Abbreviations:

CO_2 - carbon dioxide
GHG - greenhouse gases
lbs - pounds
MT - metric tonnes
MWh - megawatt-hour
SCE - Southern California Edison
RPS - Renewable Portfolio Standards

Table 4. Construction Schedule
Gardena TOD Specific Plan
Gardena, California

Construction Phase Name[1]	CalEEMod® Phase Type[1]	Start Date[1]	End Date[1]	Phase Duration[2] (days)
Demolition[3]	Demolition	7/1/2021	8/16/2021	40
Site Preparation	Site Preparation	8/17/2021	8/22/2021	5
Grading	Grading	8/23/2021	9/2/2021	10
Building Construction	Building Construction	9/3/2021	7/25/2023	592
Architectural Coating	Architectural Coating	7/26/2023	8/28/2023	29
Paving	Paving	8/29/2023	9/29/2023	28

Notes:

[1] Construction phases and duration are based on Project-specific estimates.

[2] The construction work week was assumed to be 6 days per week.

[3] Demolition phase assumes demolition of the existing building (24,000 square feet) at the site.

Abbreviations:

CalEEMod® - California Emissions Estimator Model

Table 5. Construction Equipment Mix Assumptions
Gardena TOD Specific Plan
Gardena, California

Construction Phase Name	CalEEMod® Phase Type	Equipment Type	Equipment[1,2]	Hours per day[1]
Demolition	Demolition	Concrete/Industrial Saws	1	11.0
	Demolition	Rubber Tired Dozers	1	11.0
	Demolition	Tractors/Loaders/Backhoes	3	11.0
Site Preparation	Site Preparation	Graders	1	11.0
	Site Preparation	Rubber Tired Dozers	1	9.6
	Site Preparation	Tractors/Loaders/Backhoes	1	11.0
Grading	Grading	Graders	1	8.3
	Grading	Rubber Tired Dozers	1	8.3
	Grading	Tractors/Loaders/Backhoes	1	9.6
Building Construction	Building Construction	Cranes	1	8.3
	Building Construction	Forklifts	1	8.3
	Building Construction	Generator Sets	1	11.0
	Building Construction	Tractors/Loaders/Backhoes	1	8.3
	Building Construction	Welders	3	11.0
Architectural Coating	Architectural Coating	Air Compressors	1	8.3
Paving	Paving	Cement and Mortar Mixers	1	8.3
	Paving	Pavers	1	8.3
	Paving	Paving Equipment	1	11.0
	Paving	Rollers	1	9.6
	Paving	Tractors/Loaders/Backhoes	1	11.0

Notes:

[1] Equipment mix is based on CalEEMod® defaults for the project specific land use and construction schedule shown in Table 1 and Table 4, respectively. Equipment operational hours are based on project-specific information.

Abbreviations:

CalEEMod® - California Emissions Estimator Model

Table 6. Grading Volumes
Gardena TOD Specific Plan
Gardena, California

Phase Name	Material Imported[1] (yd^3)	Material Exported[1] (yd^3)
Grading	-	8,000

Notes:

[1] Soil export quantities based on project-specific data.

Abbreviations:

yd^3 - cubic yard

Table 7. Summary of Construction GHG Emissions
Gardena TOD Specific Plan
Gardena, California

Calendar Year	Total Off-Road Emissions	Total On-Road Emissions			Total Construction Emissions[1]
		Worker	Vendor	Hauling	
	(MT CO_2e)				
2021	201	121	48	37	407
2022	392	348	142	0	882
2023	249	197	76	0	522
Total	**842**	**666**	**266**	**37**	**1,811**
				30-yr amortized	**60**

Notes:
[1] Construction emissions include on-site and off-site (worker/vendor/hauling) emissions, estimated using CalEEMod®. CO_2e includes CO_2, CH_4, and N_2O emissions, weighted by their respective global warming potentials. Refer to Appendix A for further details.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
CH_4 - methane
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalents
GHG - greenhouse gases
MT - metric tons
N_2O - nitrogen dioxide
yr - year

Table 8. Building Energy Use Assumptions
Gardena TOD Specific Plan
Gardena, California

Project Land Use Type	Land Use Size	Land Use Size Metric	Title 24 Electricity[1] kWh/DU or kWh/SF	Lighting Electricity[1] kWh/DU or kWh/SF	Title 24 Natural Gas[1] kBTU/DU or kBTU/SF
Multi-Family Housing	265	DU	160.53	662.11	5,852.35
Unenclosed Parking	275	spaces	0.00	1.56	0.00

Notes:
[1] A 10.7% reduction in CalEEMod® default values for 2016 Title 24 electricity and lighting electricity usage, and a 1.0% reduction in CalEEMod® defaults values for 2016 Title 24 natural gas consumption were applied to represent the 2019 Title 24 Standards for non-residential and high-rise residential land use categories. These reductions were estimated based on information provided in *California Energy Commission Impact Analysis: 2019 Update to the California Energy Efficiency Standards for Residential and Nonresidential Buildings,* dated June 2018. Available at: https://ww2.energy.ca.gov/title24/2019standards/post_adoption/. Accessed: April 2020.

Abbreviations:
CalEEMod® - California Emissions Estimator Model
DU - dwelling units
kBTU - 1000 British thermal unit
kWh - kilowatt-hour
SF - square foot

Table 9. Billboard Electricity Use Assumptions
Gardena TOD Specific Plan
Gardena, California

Project Component	Electricity Demand[1] kWh/year	Emissions[2] MT CO_2e/year
Digital Billboard	551,880	134.3

Notes:

[1] Electricity demand for the digital billboard was estimated by SNA Displays, the billboard provider.

[2] CO_2e weighted intensity factor estimated using SCE's 2019 CO_2 intensity factor shown in Table 3 and CalEEMod default CH_4 and N_2O intensity factors for SCE.

Abbreviations:

CO_2e - carbon dioxide equivalents
kWh - kilowatt-hour
MT - metric tons
yr - year

Constants:

GWP for CH_4	25
GWP for N_2O	298

Table 10. Mobile Source Trip Assumptions
Gardena TOD Specific Plan
Gardena, California

Project Land Use Type	CalEEMod® Land Use Type	CalEEMod® Land Use Sub-Type	Land Use Size	Land Use Size Metric	Project Trip Rates (trips/size metric/day)		
					Weekday[1]	Saturday[2]	Sunday[2]
Proposed Project							
Multi-Family Housing	Residential	Mid-Rise Apartments	265	DU	5.17	4.97	4.55
Unenclosed Parking	Parking	Unenclosed Parking w/Elevator	275	spaces	0.00	0.00	0.00
Existing Conditions							
Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	24	1000 sqft	55.34	55.34	55.34

Notes:

[1] Project-specific weekday trip rates were provided by *Fehr & Peers Transportation Consultants* .

[2] Weekend trip rates are estimated by multiplying the weekday daily trip rates by the ratio of the default CalEEMod® weekend to weekday daily trips.

Abbreviations:

CalEEMod® - California Emissions Estimator Model

DU - dwelling unit

sqft - square feet

Table 11. GHG Reductions Associated with Level 2 Electric Vehicle Chargers for Passenger Vehicles
Gardena TOD Specific Plan
Gardena, California

Estimating Emissions Reductions to Replace Conventional Passenger Vehicles with Electric Vehicles		
SCE electricity emission factor[1]	0.24	(MT CO_2e/MWh)
Fuel Efficiency of Passenger Electric Vehicles[2]	0.25	(kWh/mile)
GHG Emission Factors for Electric Passenger Vehicles[3]	61	(gms CO_2e/mile)
GHG Emission Factors for a Conventional Passenger Vehicles[4]	313	(gms CO_2e/mile)
GHG Emissions Reduction Rates for replacement of a Conventional Passenger Vehicles with Electric Passenger Vehicles[5]	253	(gms CO_2e/mile)
Annual Energy Delivery per Level 2 Charger[6]	14,112	(kWh/charging station/year)
Annual VMT Displacement per Level 2 Charger[7]	56,448	(miles/charging station/year)
GHG Reduction per Level 2 Charger[8]	14.3	(MT CO_2e/charging station/year)
Number of Level 2 Chargers[9]	7	(chargers)
Total GHG Reduction[10]	100	(MT CO_2e/year)

Notes:

[1] CO_2e weighted intensity factor estimated using SCE's 2019 CO_2 intensity factor shown in Table 3 and CalEEMod default CH_4 and N_2O intensity factors for SCE.

[2] Obtained from National Renewable Energy Laboratory (NREL), 2018. California Plug-In Electric Vehicle Infrastructure Projections: 2017-2025 (Table C.1). Available at: https://www.nrel.gov/docs/fy18osti/70893.pdf.

[3] GHG emissions factors for electric passenger vehicles are estimated based on the SCE electricity emission factor and the fuel efficiency of electric vehicles.

[4] Emission factors for passenger vehicles are estimated using a EMFAC2017 model run for vehicles operating in Los Angeles County (South Coast) during project build out year (2023) and CalEEMod default fleet mix for passenger vehicles.

[5] GHG emissions reduction rates are calculated as the difference between GHG emission factors of gasoline/diesel vehicles and GHG emission factors of electric vehicles.

[6] Annual energy delivery is estimated based on an average monthly energy delivery of 588 kWh per charging station for conventional Level 2 chargers, as reported by the California Energy Commission and assuming the installation of dual plug chargers. Available at: https://www.energy.ca.gov/2018publications/CEC-500-2018-020/CEC-500-2018-020.pdf.

[7] Annual VMT displacement per Level 2 charger is the ratio of the annual energy delivered per charger and the fuel efficiency of electric passenger vehicles.

[8] Annual GHG reductions associated with the use of a Level 2 charger are estimated using the annual VMT displacement per charger and the GHG emission reduction from additional electric vehicles per mile.

[9] Number of charging stations is based on project-specific information.

[10] Total GHG reduction for EV chargers is calculated based on the implementation of 7 level 2 chargers.

Abbreviations:

CalEEMod - California Emissions Estimator Model
CH_4 - methane
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalents
EMFAC - California Air Resources Board Emissions Factor Model
EV - electric vehicle
GHG - greenhouse gases
gms - grams
GWP - global warming potential
kWh - kilowatt-hour
MT - metric tons
MWh - megawatt-hour
SCE - Southern California Edison
VMT - vehicle miles traveled

Conversion Factors:

2204.62	lb/MT
1.00E-06	MT/gram
0.001	MWh to KWh
907185	gram/ton
453.59	gram/lb

Constants:

Days per Year	365
GWP for CH_4	25
GWP for N_2O	298

APPENDIX A
CALEEMOD® OUTPUT FILES

List of CalEEMod Runs

APPENDIX A.1
GARDENA TOD SPECIFIC PLAN – EXISTING USES

Gardena Transit-Oriented Development Specific Plan - Existing Warehouse

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	24.00	1000sqft	1.33	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE RPS.

Land Use - Site-specific land use.

Construction Phase - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Trips and VMT - Operation analyzed only.

Demolition -

Grading - Operation analyzed only.

Architectural Coating - Operation analyzed only.

Vehicle Trips - Trip rates derived from traffic study conducted by Fehr & Peers.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Woodstoves -

Energy Use -

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
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tblArchitecturalCoating	EF_Residential_Exterior	50.00	0.00

tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
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tblConstructionPhase	NumDays	20.00	0.00
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tblConstructionPhase	NumDays	10.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblVehicleEF	HHD	1.0700e-004	2.8198e-006
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tblVehicleEF	HHD	0.03	0.03
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tblVehicleEF	LDA	2.2990e-003	2.0470e-003
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tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	2.1210e-003	1.8863e-003
tblVehicleEF	LDA	2.1610e-003	1.9065e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.10	0.27
tblVehicleEF	LDA	2.9700e-003	2.8369e-003
tblVehicleEF	LDA	6.3700e-004	5.5869e-004
tblVehicleEF	LDA	0.05	0.06

tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.11	0.30
tblVehicleEF	LDA	6.9520e-003	4.2787e-003
tblVehicleEF	LDA	6.3260e-003	0.05
tblVehicleEF	LDA	0.83	0.94
tblVehicleEF	LDA	1.21	1.90
tblVehicleEF	LDA	310.18	299.35
tblVehicleEF	LDA	61.25	55.84
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.08	0.19
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.2990e-003	2.0470e-003
tblVehicleEF	LDA	2.3500e-003	2.0733e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	2.1210e-003	1.8863e-003
tblVehicleEF	LDA	2.1610e-003	1.9065e-003
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.09	0.24

tblVehicleEF	LDA	3.1090e-003	2.9615e-003
tblVehicleEF	LDA	6.3300e-004	5.5255e-004
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDA	6.4200e-003	3.9296e-003
tblVehicleEF	LDA	7.2950e-003	0.06
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.46	2.31
tblVehicleEF	LDA	291.32	282.10
tblVehicleEF	LDA	61.25	56.60
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.09	0.21
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.2990e-003	2.0470e-003
tblVehicleEF	LDA	2.3500e-003	2.0733e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	2.1210e-003	1.8863e-003
tblVehicleEF	LDA	2.1610e-003	1.9065e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.10	0.28
tblVehicleEF	LDA	2.9190e-003	2.7908e-003
tblVehicleEF	LDA	6.3800e-004	5.6011e-004
tblVehicleEF	LDA	0.05	0.06
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tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.11	0.31
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	2.02	1.84
tblVehicleEF	LDT1	3.43	2.45
tblVehicleEF	LDT1	360.63	336.32
tblVehicleEF	LDT1	73.09	67.01
tblVehicleEF	LDT1	0.19	0.16
tblVehicleEF	LDT1	0.20	0.30
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.9490e-003	3.2450e-003
tblVehicleEF	LDT1	3.7850e-003	3.0811e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.6370e-003	2.9867e-003
tblVehicleEF	LDT1	3.4820e-003	2.8333e-003

tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.30	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.10
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	3.6330e-003	3.3281e-003
tblVehicleEF	LDT1	7.9100e-004	6.6309e-004
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.30	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.10
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	2.18	1.99
tblVehicleEF	LDT1	2.91	2.08
tblVehicleEF	LDT1	376.30	349.17
tblVehicleEF	LDT1	73.09	66.26
tblVehicleEF	LDT1	0.17	0.14
tblVehicleEF	LDT1	0.18	0.28
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.9490e-003	3.2450e-003
tblVehicleEF	LDT1	3.7850e-003	3.0811e-003
tblVehicleEF	LDT1	0.02	0.02

tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.6370e-003	2.9867e-003
tblVehicleEF	LDT1	3.4820e-003	2.8333e-003
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.09
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	3.7920e-003	3.4553e-003
tblVehicleEF	LDT1	7.8200e-004	6.5566e-004
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.18	0.09
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.96	1.78
tblVehicleEF	LDT1	3.54	2.53
tblVehicleEF	LDT1	354.88	331.57
tblVehicleEF	LDT1	73.09	67.18
tblVehicleEF	LDT1	0.19	0.16
tblVehicleEF	LDT1	0.20	0.31
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003

tblVehicleEF	LDT1	3.9490e-003	3.2450e-003
tblVehicleEF	LDT1	3.7850e-003	3.0811e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.6370e-003	2.9867e-003
tblVehicleEF	LDT1	3.4820e-003	2.8333e-003
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	0.12
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.5750e-003	3.2810e-003
tblVehicleEF	LDT1	7.9300e-004	6.6480e-004
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.23	0.12
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	8.6320e-003	6.3277e-003
tblVehicleEF	LDT2	8.2970e-003	0.08
tblVehicleEF	LDT2	0.97	1.23
tblVehicleEF	LDT2	1.67	2.86
tblVehicleEF	LDT2	408.00	367.53
tblVehicleEF	LDT2	83.22	73.71
tblVehicleEF	LDT2	0.10	0.11

tblVehicleEF	LDT2	0.14	0.35
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1760e-003	2.1380e-003
tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LDT2	4.0880e-003	3.6361e-003
tblVehicleEF	LDT2	8.6100e-004	7.2940e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.12	0.41
tblVehicleEF	LDT2	9.1430e-003	6.7251e-003
tblVehicleEF	LDT2	7.3790e-003	0.07
tblVehicleEF	LDT2	1.07	1.35
tblVehicleEF	LDT2	1.43	2.44

tblVehicleEF	LDT2	426.32	380.44
tblVehicleEF	LDT2	83.22	72.90
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.13	0.32
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1760e-003	2.1380e-003
tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.08	0.12
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	4.2730e-003	3.7639e-003
tblVehicleEF	LDT2	8.5600e-004	7.2140e-004
tblVehicleEF	LDT2	0.08	0.12
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	8.4620e-003	6.2016e-003

tblVehicleEF	LDT2	8.4930e-003	0.08
tblVehicleEF	LDT2	0.94	1.19
tblVehicleEF	LDT2	1.73	2.96
tblVehicleEF	LDT2	401.27	362.75
tblVehicleEF	LDT2	83.22	73.90
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.15	0.35
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1760e-003	2.1380e-003
tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.11	0.39
tblVehicleEF	LDT2	4.0210e-003	3.5889e-003
tblVehicleEF	LDT2	8.6200e-004	7.3126e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.13	0.42
tblVehicleEF	LHD1	6.3570e-003	6.1107e-003
tblVehicleEF	LHD1	0.02	7.2756e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.07	0.85
tblVehicleEF	LHD1	3.29	1.27
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.35
tblVehicleEF	LHD1	35.85	13.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.15	0.81
tblVehicleEF	LHD1	1.13	0.38
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
tblVehicleEF	LHD1	9.6360e-003	6.9407e-003
tblVehicleEF	LHD1	1.1970e-003	3.3361e-004
tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	3.4680e-003	2.9778e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	2.0560e-003	1.7697e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.33	0.23
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1270e-003	6.8007e-003
tblVehicleEF	LHD1	4.2000e-004	1.3292e-004
tblVehicleEF	LHD1	3.4680e-003	2.9778e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0560e-003	1.7697e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.23
tblVehicleEF	LHD1	0.35	0.11
tblVehicleEF	LHD1	6.3570e-003	6.1237e-003
tblVehicleEF	LHD1	0.02	7.4194e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.08	0.87
tblVehicleEF	LHD1	3.14	1.22
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.38
tblVehicleEF	LHD1	35.85	13.33
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.07	0.76
tblVehicleEF	LHD1	1.08	0.36
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
tblVehicleEF	LHD1	9.6360e-003	6.9407e-003
tblVehicleEF	LHD1	1.1970e-003	3.3361e-004
tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	5.2080e-003	4.3916e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9180e-003	2.4685e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.22
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1280e-003	6.8010e-003
tblVehicleEF	LHD1	4.1700e-004	1.3191e-004
tblVehicleEF	LHD1	5.2080e-003	4.3916e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9180e-003	2.4685e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.22
tblVehicleEF	LHD1	0.34	0.10
tblVehicleEF	LHD1	6.3570e-003	6.1081e-003

tblVehicleEF	LHD1	0.02	7.2362e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.06	0.85
tblVehicleEF	LHD1	3.32	1.28
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.34
tblVehicleEF	LHD1	35.85	13.45
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.13	0.80
tblVehicleEF	LHD1	1.14	0.38
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
tblVehicleEF	LHD1	9.6360e-003	6.9407e-003
tblVehicleEF	LHD1	1.1970e-003	3.3361e-004
tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	3.6860e-003	3.1700e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0330e-003	1.7530e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.35	0.25

tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1270e-003	6.8007e-003
tblVehicleEF	LHD1	4.2100e-004	1.3311e-004
tblVehicleEF	LHD1	3.6860e-003	3.1700e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0330e-003	1.7530e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.25
tblVehicleEF	LHD1	0.36	0.11
tblVehicleEF	LHD2	4.6500e-003	4.3805e-003
tblVehicleEF	LHD2	5.8620e-003	5.0498e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.45	0.57
tblVehicleEF	LHD2	1.67	0.89
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.02
tblVehicleEF	LHD2	30.01	10.61
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.88	1.08
tblVehicleEF	LHD2	0.66	0.27
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01

tblVehicleEF	LHD2	5.5800e-004	1.9149e-004
tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7607e-004
tblVehicleEF	LHD2	1.4140e-003	1.9035e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	1.1332e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.11	0.15
tblVehicleEF	LHD2	0.15	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2893e-004
tblVehicleEF	LHD2	6.1920e-003	6.7671e-003
tblVehicleEF	LHD2	3.3100e-004	1.0499e-004
tblVehicleEF	LHD2	1.4140e-003	1.9035e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.8000e-004	1.1332e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.11	0.15
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tblVehicleEF	LHD2	5.9540e-003	5.1158e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16

tblVehicleEF	LHD2	0.46	0.58
tblVehicleEF	LHD2	1.60	0.85
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.03
tblVehicleEF	LHD2	30.01	10.54
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.83	1.02
tblVehicleEF	LHD2	0.63	0.26
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01
tblVehicleEF	LHD2	5.5800e-004	1.9149e-004
tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7607e-004
tblVehicleEF	LHD2	2.1090e-003	2.8050e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	1.5798e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.10	0.15
tblVehicleEF	LHD2	0.15	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2893e-004
tblVehicleEF	LHD2	6.1920e-003	6.7672e-003

tblVehicleEF	LHD2	3.3000e-004	1.0428e-004
tblVehicleEF	LHD2	2.1090e-003	2.8050e-003
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tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2380e-003	1.5798e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.15
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tblVehicleEF	LHD2	5.8380e-003	5.0320e-003
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tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.45	0.57
tblVehicleEF	LHD2	1.68	0.90
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.01
tblVehicleEF	LHD2	30.01	10.62
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.87	1.06
tblVehicleEF	LHD2	0.67	0.27
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01
tblVehicleEF	LHD2	5.5800e-004	1.9149e-004
tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
tblVehicleEF	LHD2	0.04	0.04

tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7607e-004
tblVehicleEF	LHD2	1.4720e-003	2.0038e-003
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	1.1074e-003
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tblVehicleEF	LHD2	0.12	0.16
tblVehicleEF	LHD2	0.16	0.07
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tblVehicleEF	LHD2	6.1910e-003	6.7671e-003
tblVehicleEF	LHD2	3.3100e-004	1.0512e-004
tblVehicleEF	LHD2	1.4720e-003	2.0038e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.5900e-004	1.1074e-003
tblVehicleEF	LHD2	0.06	0.07
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tblVehicleEF	LHD2	0.17	0.08
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.48	19.74
tblVehicleEF	MCY	9.63	8.47
tblVehicleEF	MCY	187.52	223.45
tblVehicleEF	MCY	45.30	60.30
tblVehicleEF	MCY	1.13	1.13

tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
tblVehicleEF	MCY	4.0640e-003	3.4455e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
tblVehicleEF	MCY	3.8350e-003	3.2508e-003
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	0.66	0.68
tblVehicleEF	MCY	2.62	2.65
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.08	1.84
tblVehicleEF	MCY	2.2730e-003	2.2113e-003
tblVehicleEF	MCY	6.7100e-004	5.9675e-004
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	0.66	0.68
tblVehicleEF	MCY	3.25	3.27
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.26	2.00
tblVehicleEF	MCY	0.52	0.38
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.74	18.94
tblVehicleEF	MCY	8.81	7.73

tblVehicleEF	MCY	187.52	221.94
tblVehicleEF	MCY	45.30	58.43
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
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tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
tblVehicleEF	MCY	3.8350e-003	3.2508e-003
tblVehicleEF	MCY	1.74	1.75
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	2.56	2.58
tblVehicleEF	MCY	0.60	0.57
tblVehicleEF	MCY	1.85	1.63
tblVehicleEF	MCY	2.2590e-003	2.1963e-003
tblVehicleEF	MCY	6.5100e-004	5.7823e-004
tblVehicleEF	MCY	1.74	1.75
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	3.17	3.18
tblVehicleEF	MCY	0.60	0.57
tblVehicleEF	MCY	2.01	1.77
tblVehicleEF	MCY	0.53	0.39

tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.59	19.90
tblVehicleEF	MCY	9.76	8.61
tblVehicleEF	MCY	187.52	223.76
tblVehicleEF	MCY	45.30	60.68
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
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tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
tblVehicleEF	MCY	3.8350e-003	3.2508e-003
tblVehicleEF	MCY	1.17	1.19
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tblVehicleEF	MCY	2.64	2.66
tblVehicleEF	MCY	0.73	0.69
tblVehicleEF	MCY	2.12	1.88
tblVehicleEF	MCY	2.2750e-003	2.2143e-003
tblVehicleEF	MCY	6.7500e-004	6.0045e-004
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.86	0.89
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	3.26	3.29

tblVehicleEF	MCY	0.73	0.69
tblVehicleEF	MCY	2.31	2.05
tblVehicleEF	MDV	0.02	9.2304e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.77	1.63
tblVehicleEF	MDV	3.11	3.48
tblVehicleEF	MDV	543.27	449.17
tblVehicleEF	MDV	109.34	89.67
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.29	0.42
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MDV	5.4490e-003	4.4414e-003
tblVehicleEF	MDV	1.1480e-003	8.8732e-004
tblVehicleEF	MDV	0.07	0.09

tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.27	0.54
tblVehicleEF	MDV	0.02	9.6792e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.90	1.75
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tblVehicleEF	MDV	567.14	462.77
tblVehicleEF	MDV	109.34	88.67
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.26	0.39
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.22	0.44

tblVehicleEF	MDV	5.6890e-003	4.5760e-003
tblVehicleEF	MDV	1.1400e-003	8.7748e-004
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.02	9.0788e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.72	1.59
tblVehicleEF	MDV	3.20	3.60
tblVehicleEF	MDV	534.52	444.14
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tblVehicleEF	MDV	0.19	0.15
tblVehicleEF	MDV	0.29	0.43
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.07	0.09

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	0.25	0.50
tblVehicleEF	MDV	5.3610e-003	4.3917e-003
tblVehicleEF	MDV	1.1500e-003	8.8960e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.11	0.07
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tblVehicleEF	MH	0.04	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	3.53	1.92
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tblVehicleEF	MH	1.26	1.22
tblVehicleEF	MH	0.90	0.25
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.1950e-003	3.2285e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.4630e-003	3.2517e-004

tblVehicleEF	MH	1.18	1.05
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.49	0.43
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.43	0.11
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	7.6200e-004	2.0548e-004
tblVehicleEF	MH	1.18	1.05
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.49	0.43
tblVehicleEF	MH	0.18	0.11
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.47	0.12
tblVehicleEF	MH	0.04	0.01
tblVehicleEF	MH	0.03	0.02
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tblVehicleEF	MH	1.15	1.13
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tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
tblVehicleEF	MH	0.06	0.06

tblVehicleEF	MH	3.1950e-003	3.2285e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.4630e-003	3.2517e-004
tblVehicleEF	MH	1.74	1.49
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.71	0.59
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.41	0.11
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	7.5500e-004	2.0326e-004
tblVehicleEF	MH	1.74	1.49
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.71	0.59
tblVehicleEF	MH	0.18	0.11
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.45	0.12
tblVehicleEF	MH	0.04	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	3.51	1.91
tblVehicleEF	MH	7.19	2.42
tblVehicleEF	MH	1,138.98	1,557.74
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tblVehicleEF	MH	1.23	1.20
tblVehicleEF	MH	0.91	0.25
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.1950e-003	3.2285e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.4630e-003	3.2517e-004
tblVehicleEF	MH	1.35	1.20
tblVehicleEF	MH	0.10	0.09
tblVehicleEF	MH	0.51	0.44
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.43	0.11
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	7.6300e-004	2.0592e-004
tblVehicleEF	MH	1.35	1.20
tblVehicleEF	MH	0.10	0.09
tblVehicleEF	MH	0.51	0.44
tblVehicleEF	MH	0.18	0.11
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.47	0.12
tblVehicleEF	MHD	0.02	4.4970e-003
tblVehicleEF	MHD	8.6590e-003	9.4717e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.44	0.40
tblVehicleEF	MHD	0.61	0.87
tblVehicleEF	MHD	7.49	1.63
tblVehicleEF	MHD	133.10	70.08

tblVehicleEF	MHD	1,158.03	1,130.80
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tblVehicleEF	MHD	1.86	2.74
tblVehicleEF	MHD	9.86	1.00
tblVehicleEF	MHD	2.2420e-003	2.2343e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	9.3600e-004	1.5493e-004
tblVehicleEF	MHD	2.1450e-003	2.1377e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4245e-004
tblVehicleEF	MHD	1.3410e-003	8.0902e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.3700e-004	4.9874e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.46	0.07
tblVehicleEF	MHD	1.2830e-003	6.6568e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.8800e-004	1.2725e-004
tblVehicleEF	MHD	1.3410e-003	8.0902e-004
tblVehicleEF	MHD	0.05	0.03

tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.3700e-004	4.9874e-004
tblVehicleEF	MHD	0.11	0.17
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.50	0.08
tblVehicleEF	MHD	0.02	4.2554e-003
tblVehicleEF	MHD	8.7760e-003	9.5515e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.32	0.32
tblVehicleEF	MHD	0.62	0.88
tblVehicleEF	MHD	7.11	1.55
tblVehicleEF	MHD	140.97	71.70
tblVehicleEF	MHD	1,158.03	1,130.82
tblVehicleEF	MHD	65.62	12.72
tblVehicleEF	MHD	0.84	0.63
tblVehicleEF	MHD	1.75	2.58
tblVehicleEF	MHD	9.81	0.99
tblVehicleEF	MHD	1.8900e-003	1.8858e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	9.3600e-004	1.5493e-004
tblVehicleEF	MHD	1.8090e-003	1.8042e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4245e-004

tblVehicleEF	MHD	2.0150e-003	1.2069e-003
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.1980e-003	7.1013e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.44	0.07
tblVehicleEF	MHD	1.3570e-003	6.8116e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.8100e-004	1.2588e-004
tblVehicleEF	MHD	2.0150e-003	1.2069e-003
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.1980e-003	7.1013e-004
tblVehicleEF	MHD	0.11	0.18
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.48	0.08
tblVehicleEF	MHD	0.02	4.8426e-003
tblVehicleEF	MHD	8.6270e-003	9.4470e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.61	0.51
tblVehicleEF	MHD	0.61	0.87
tblVehicleEF	MHD	7.56	1.64
tblVehicleEF	MHD	122.21	67.84
tblVehicleEF	MHD	1,158.03	1,130.80
tblVehicleEF	MHD	65.62	12.89
tblVehicleEF	MHD	0.78	0.61

tblVehicleEF	MHD	1.83	2.68
tblVehicleEF	MHD	9.87	1.00
tblVehicleEF	MHD	2.7290e-003	2.7156e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	9.3600e-004	1.5493e-004
tblVehicleEF	MHD	2.6110e-003	2.5981e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4245e-004
tblVehicleEF	MHD	1.4110e-003	8.5520e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.2400e-004	4.9209e-004
tblVehicleEF	MHD	0.09	0.15
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.46	0.08
tblVehicleEF	MHD	1.1810e-003	6.4423e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.8900e-004	1.2753e-004
tblVehicleEF	MHD	1.4110e-003	8.5520e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	8.2400e-004	4.9209e-004
tblVehicleEF	MHD	0.11	0.17

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.51	0.08
tblVehicleEF	OBUS	0.01	9.0435e-003
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tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.29	0.61
tblVehicleEF	OBUS	0.68	1.24
tblVehicleEF	OBUS	6.09	2.54
tblVehicleEF	OBUS	110.73	98.44
tblVehicleEF	OBUS	1,273.03	1,458.73
tblVehicleEF	OBUS	68.83	19.88
tblVehicleEF	OBUS	0.65	0.71
tblVehicleEF	OBUS	2.05	2.51
tblVehicleEF	OBUS	2.66	0.62
tblVehicleEF	OBUS	3.0000e-004	3.3600e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	7.8200e-004	1.9896e-004
tblVehicleEF	OBUS	2.8700e-004	3.2147e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	9.9080e-003	0.05
tblVehicleEF	OBUS	7.2000e-004	1.8311e-004
tblVehicleEF	OBUS	1.4950e-003	1.8642e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07

tblVehicleEF	OBUS	7.8100e-004	9.3194e-004
tblVehicleEF	OBUS	0.07	0.14
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	1.0690e-003	9.3596e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	1.9669e-004
tblVehicleEF	OBUS	1.4950e-003	1.8642e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	7.8100e-004	9.3194e-004
tblVehicleEF	OBUS	0.09	0.18
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	OBUS	0.01	9.0382e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.57
tblVehicleEF	OBUS	0.69	1.26
tblVehicleEF	OBUS	5.75	2.40
tblVehicleEF	OBUS	116.31	99.64
tblVehicleEF	OBUS	1,273.03	1,458.76
tblVehicleEF	OBUS	68.83	19.64
tblVehicleEF	OBUS	0.67	0.72
tblVehicleEF	OBUS	1.93	2.36
tblVehicleEF	OBUS	2.62	0.61
tblVehicleEF	OBUS	2.5300e-004	2.8372e-003

tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	7.8200e-004	1.9896e-004
tblVehicleEF	OBUS	2.4200e-004	2.7145e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	9.9080e-003	0.05
tblVehicleEF	OBUS	7.2000e-004	1.8311e-004
tblVehicleEF	OBUS	2.1920e-003	2.6900e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.1100e-003	1.3038e-003
tblVehicleEF	OBUS	0.07	0.15
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	1.1220e-003	9.4733e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9000e-004	1.9437e-004
tblVehicleEF	OBUS	2.1920e-003	2.6900e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	1.1100e-003	1.3038e-003
tblVehicleEF	OBUS	0.09	0.18
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	9.0689e-003

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.31	0.66
tblVehicleEF	OBUS	0.68	1.23
tblVehicleEF	OBUS	6.15	2.57
tblVehicleEF	OBUS	103.03	96.78
tblVehicleEF	OBUS	1,273.03	1,458.72
tblVehicleEF	OBUS	68.83	19.93
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tblVehicleEF	OBUS	2.02	2.46
tblVehicleEF	OBUS	2.67	0.62
tblVehicleEF	OBUS	3.6500e-004	4.0820e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	7.8200e-004	1.9896e-004
tblVehicleEF	OBUS	3.4900e-004	3.9054e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	9.9080e-003	0.05
tblVehicleEF	OBUS	7.2000e-004	1.8311e-004
tblVehicleEF	OBUS	1.5550e-003	1.9741e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.6300e-004	9.1952e-004
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tblVehicleEF	OBUS	0.04	0.08

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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9600e-004	1.9718e-004
tblVehicleEF	OBUS	1.5550e-003	1.9741e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	7.6300e-004	9.1952e-004
tblVehicleEF	OBUS	0.09	0.18
tblVehicleEF	OBUS	0.04	0.08
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tblVehicleEF	SBUS	0.07	6.1513e-003
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	7.4700e-004	4.5351e-005
tblVehicleEF	SBUS	0.01	4.6798e-003
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tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
tblVehicleEF	SBUS	3.4480e-003	9.3291e-004
tblVehicleEF	SBUS	0.03	7.9894e-003
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tblVehicleEF	SBUS	1.6800e-003	4.7378e-004
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tblVehicleEF	SBUS	0.01	3.3776e-003
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tblVehicleEF	SBUS	6.5300e-004	5.1647e-005
tblVehicleEF	SBUS	3.4480e-003	9.3291e-004
tblVehicleEF	SBUS	0.03	7.9894e-003
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tblVehicleEF	SBUS	1.6800e-003	4.7378e-004
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tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.88	0.07
tblVehicleEF	SBUS	0.01	8.0602e-003
tblVehicleEF	SBUS	0.06	5.4885e-003
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tblVehicleEF	SBUS	12.69	0.79
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
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tblVehicleEF	SBUS	2.4200e-003	6.5907e-004
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tblVehicleEF	SBUS	5.0870e-003	1.3452e-003
tblVehicleEF	SBUS	0.03	8.1038e-003
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tblVehicleEF	SBUS	2.4200e-003	6.5907e-004
tblVehicleEF	SBUS	0.14	0.13
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tblVehicleEF	SBUS	0.39	0.03
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tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	0.01	5.6851e-003
tblVehicleEF	SBUS	0.32	0.32

tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
tblVehicleEF	SBUS	3.6280e-003	9.6962e-004
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tblVehicleEF	SBUS	1.6230e-003	4.5940e-004
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tblVehicleEF	SBUS	0.01	3.2620e-003
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tblVehicleEF	SBUS	6.5700e-004	5.2148e-005
tblVehicleEF	SBUS	3.6280e-003	9.6962e-004
tblVehicleEF	SBUS	0.03	8.6170e-003
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tblVehicleEF	SBUS	1.6230e-003	4.5940e-004
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tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	12.36	42.74
tblVehicleEF	UBUS	8.85	0.71
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tblVehicleEF	UBUS	88.02	8.74
tblVehicleEF	UBUS	11.49	1.21

tblVehicleEF	UBUS	15.98	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	4.1600e-003	5.6506e-004
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tblVehicleEF	UBUS	2.3210e-003	4.4997e-004
tblVehicleEF	UBUS	0.96	0.16
tblVehicleEF	UBUS	0.02	1.8353e-003
tblVehicleEF	UBUS	0.66	0.05
tblVehicleEF	UBUS	0.01	1.4781e-003
tblVehicleEF	UBUS	1.0390e-003	8.6510e-005
tblVehicleEF	UBUS	4.1600e-003	5.6506e-004
tblVehicleEF	UBUS	0.07	7.6310e-003
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tblVehicleEF	UBUS	0.02	1.8353e-003
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tblVehicleEF	UBUS	2.95	6.22
tblVehicleEF	UBUS	0.04	0.01
tblVehicleEF	UBUS	12.41	42.74
tblVehicleEF	UBUS	7.66	0.63

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tblVehicleEF	UBUS	15.93	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	5.9230e-003	8.1967e-004
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tblVehicleEF	UBUS	0.02	1.6667e-003
tblVehicleEF	UBUS	0.60	0.04
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tblVehicleEF	UBUS	1.0190e-003	8.5055e-005
tblVehicleEF	UBUS	5.9230e-003	8.1967e-004
tblVehicleEF	UBUS	0.07	7.8713e-003
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tblVehicleEF	UBUS	4.04	6.42
tblVehicleEF	UBUS	0.02	1.6667e-003
tblVehicleEF	UBUS	0.66	0.05
tblVehicleEF	UBUS	2.95	6.22

tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	12.34	42.74
tblVehicleEF	UBUS	9.07	0.73
tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.77
tblVehicleEF	UBUS	11.27	1.20
tblVehicleEF	UBUS	15.99	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	4.7740e-003	5.5338e-004
tblVehicleEF	UBUS	0.09	8.1480e-003
tblVehicleEF	UBUS	2.4590e-003	4.2794e-004
tblVehicleEF	UBUS	0.96	0.16
tblVehicleEF	UBUS	0.03	2.2296e-003
tblVehicleEF	UBUS	0.67	0.05
tblVehicleEF	UBUS	0.01	1.4781e-003
tblVehicleEF	UBUS	1.0430e-003	8.6803e-005
tblVehicleEF	UBUS	4.7740e-003	5.5338e-004
tblVehicleEF	UBUS	0.09	8.1480e-003
tblVehicleEF	UBUS	2.4590e-003	4.2794e-004
tblVehicleEF	UBUS	4.02	6.42

tblVehicleEF	UBUS	0.03	2.2296e-003
tblVehicleEF	UBUS	0.74	0.05
tblVehicleTrips	ST_TR	1.68	55.34
tblVehicleTrips	SU_TR	1.68	55.34
tblVehicleTrips	WD_TR	1.68	55.34

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					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0979	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.4000e-004
Energy	5.1000e-004	4.6200e-003	3.8800e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	29.2164	29.2164	1.4100e-003	3.6000e-004	29.3601
Mobile	0.6111	1.9882	9.0764	0.0240	2.1495	0.0331	2.1826	0.5746	0.0312	0.6058	0.0000	2,239.7811	2,239.7811	0.1436	0.0000	2,243.3717
Waste						0.0000	0.0000		0.0000	0.0000	4.5795	0.0000	4.5795	0.2706	0.0000	11.3455
Water						0.0000	0.0000		0.0000	0.0000	1.7608	17.5043	19.2650	0.1818	4.4700e-003	25.1411
Total	**0.7095**	**1.9928**	**9.0805**	**0.0240**	**2.1495**	**0.0335**	**2.1829**	**0.5746**	**0.0315**	**0.6061**	**6.3402**	**2,286.5023**	**2,292.8426**	**0.5975**	**4.8300e-003**	**2,309.2190**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0979	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.4000e-004
Energy	5.1000e-004	4.6200e-003	3.8800e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	29.2164	29.2164	1.4100e-003	3.6000e-004	29.3601
Mobile	0.6111	1.9882	9.0764	0.0240	2.1495	0.0331	2.1826	0.5746	0.0312	0.6058	0.0000	2,239.7811	2,239.7811	0.1436	0.0000	2,243.3717
Waste						0.0000	0.0000		0.0000	0.0000	4.5795	0.0000	4.5795	0.2706	0.0000	11.3455
Water						0.0000	0.0000		0.0000	0.0000	1.7608	17.5043	19.2650	0.1818	4.4700e-003	25.1411
Total	**0.7095**	**1.9928**	**9.0805**	**0.0240**	**2.1495**	**0.0335**	**2.1829**	**0.5746**	**0.0315**	**0.6061**	**6.3402**	**2,286.5023**	**2,292.8426**	**0.5975**	**4.8300e-003**	**2,309.2190**

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

3.0 Construction Detail

Construction Phase

Gardena Transit-Oriented Development Specific Plan - Existing Warehouse - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	12/31/2018	5	0	
2	Site Preparation	Site Preparation	1/29/2019	1/28/2019	5	0	
3	Grading	Grading	1/31/2019	1/30/2019	5	0	
4	Building Construction	Building Construction	2/6/2019	2/5/2019	5	0	
5	Paving	Paving	11/13/2019	11/12/2019	5	0	
6	Architectural Coating	Architectural Coating	11/27/2019	11/26/2019	5	0	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	6.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	0	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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.6111	1.9882	9.0764	0.0240	2.1495	0.0331	2.1826	0.5746	0.0312	0.6058	0.0000	2,239.7811	2,239.7811	0.1436	0.0000	2,243.3717
Unmitigated	0.6111	1.9882	9.0764	0.0240	2.1495	0.0331	2.1826	0.5746	0.0312	0.6058	0.0000	2,239.7811	2,239.7811	0.1436	0.0000	2,243.3717

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,328.16	1,328.16	1328.16	5,692,118	5,692,118
Total	1,328.16	1,328.16	1,328.16	5,692,118	5,692,118

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
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.557490	0.059078	0.186496	0.118813	0.022821	0.005614	0.016986	0.023928	0.001427	0.001685	0.004212	0.000564	0.000885

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	24.1831	24.1831	1.3100e-003	2.7000e-004	24.2969
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	24.1831	24.1831	1.3100e-003	2.7000e-004	24.2969
NaturalGas Mitigated	5.1000e-004	4.6200e-003	3.8800e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0333	5.0333	1.0000e-004	9.0000e-005	5.0632
NaturalGas Unmitigated	5.1000e-004	4.6200e-003	3.8800e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0333	5.0333	1.0000e-004	9.0000e-005	5.0632

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					
Unrefrigerated Warehouse-No Rail	94320	5.1000e-004	4.6200e-003	3.8800e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0333	5.0333	1.0000e-004	9.0000e-005	5.0632
Total		**5.1000e-004**	**4.6200e-003**	**3.8800e-003**	**3.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**5.0333**	**5.0333**	**1.0000e-004**	**9.0000e-005**	**5.0632**

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					
Unrefrigerated Warehouse-No Rail	94320	5.1000e-004	4.6200e-003	3.8800e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0333	5.0333	1.0000e-004	9.0000e-005	5.0632
Total		**5.1000e-004**	**4.6200e-003**	**3.8800e-003**	**3.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**5.0333**	**5.0333**	**1.0000e-004**	**9.0000e-005**	**5.0632**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	99840	24.1831	1.3100e-003	2.7000e-004	24.2969
Total		**24.1831**	**1.3100e-003**	**2.7000e-004**	**24.2969**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	99840	24.1831	1.3100e-003	2.7000e-004	24.2969
Total		**24.1831**	**1.3100e-003**	**2.7000e-004**	**24.2969**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0979	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.4000e-004
Unmitigated	0.0979	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.4000e-004

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	0.0111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0867					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.4000e-004
Total	**0.0979**	**0.0000**	**3.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.4000e-004**

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	0.0111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0867					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.4000e-004
Total	**0.0979**	**0.0000**	**3.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.4000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.2650	0.1818	4.4700e-003	25.1411
Unmitigated	19.2650	0.1818	4.4700e-003	25.1411

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	5.55 / 0	19.2650	0.1818	4.4700e-003	25.1411
Total		**19.2650**	**0.1818**	**4.4700e-003**	**25.1411**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	5.55 / 0	19.2650	0.1818	4.4700e-003	25.1411
Total		**19.2650**	**0.1818**	**4.4700e-003**	**25.1411**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.5795	0.2706	0.0000	11.3455
Unmitigated	4.5795	0.2706	0.0000	11.3455

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	22.56	4.5795	0.2706	0.0000	11.3455
Total		**4.5795**	**0.2706**	**0.0000**	**11.3455**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	22.56	4.5795	0.2706	0.0000	11.3455
Total		**4.5795**	**0.2706**	**0.0000**	**11.3455**

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

APPENDIX A.2
GARDENA TOD SPECIFIC PLAN – PROPOSED PROJECT

Gardena Transit-Oriented Development Specific Plan

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	275.00	Space	0.00	110,000.00	0
Apartments Mid Rise	265.00	Dwelling Unit	1.33	265,000.00	758

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2019 RPS.

Land Use - Project-specific land use.

Construction Phase - Construction schedule based on project-specific information.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Trips and VMT - Construction trips are calculated outside of CalEEMod.

Demolition -

Grading -

Vehicle Trips - Project-specific trip rates.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Woodstoves - No wood-burning fireplaces or stoves.

Energy Use - 2019 Title 24.

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	29.00
tblConstructionPhase	NumDays	200.00	592.00

tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	741.44	662.11
tblEnergyUse	LightingElect	1.75	1.56
tblEnergyUse	T24E	179.76	160.53
tblEnergyUse	T24NG	5,911.46	5,852.35
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	225.25	0.00
tblFireplaces	NumberNoFireplace	26.50	0.00
tblFireplaces	NumberWood	13.25	0.00
tblFleetMix	HHD	0.03	0.03
tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.21	0.19

tblFleetMix	LDT2	0.21	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.2270e-003	6.2157e-003
tblFleetMix	LHD2	6.2270e-003	6.2157e-003
tblFleetMix	MCY	5.1840e-003	4.4872e-003
tblFleetMix	MCY	5.1840e-003	4.4872e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	8.6200e-004	9.0699e-004
tblFleetMix	MH	8.6200e-004	9.0699e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.5460e-003	1.4203e-003
tblFleetMix	OBUS	2.5460e-003	1.4203e-003
tblFleetMix	SBUS	6.9200e-004	6.0140e-004
tblFleetMix	SBUS	6.9200e-004	6.0140e-004
tblFleetMix	UBUS	2.1330e-003	1.6853e-003
tblFleetMix	UBUS	2.1330e-003	1.6853e-003
tblGrading	AcresOfGrading	5.16	3.75
tblGrading	AcresOfGrading	3.44	2.50
tblGrading	MaterialExported	0.00	8,000.00
tblLandUse	LotAcreage	2.47	0.00
tblLandUse	LotAcreage	6.97	1.33
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00

tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	7.00	9.63
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	7.00	9.63
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	7.00	9.63
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	8.00	11.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblSequestration	NumberOfNewTrees	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	109.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,000.00	0.00
tblTripsAndVMT	VendorTripNumber	46.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	237.00	0.00
tblTripsAndVMT	WorkerTripNumber	47.00	0.00

tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblVehicleEF	HHD	0.48	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.07	5.3770e-007
tblVehicleEF	HHD	1.63	6.71
tblVehicleEF	HHD	1.06	0.46
tblVehicleEF	HHD	3.33	9.5442e-003
tblVehicleEF	HHD	4,465.78	1,126.84
tblVehicleEF	HHD	1,572.96	1,400.16
tblVehicleEF	HHD	10.75	0.08
tblVehicleEF	HHD	14.30	5.75
tblVehicleEF	HHD	2.12	2.71
tblVehicleEF	HHD	19.50	2.35
tblVehicleEF	HHD	0.01	3.1921e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	9.6000e-003	3.0540e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
tblVehicleEF	HHD	1.0300e-004	5.8985e-006
tblVehicleEF	HHD	4.5010e-003	2.2896e-004
tblVehicleEF	HHD	0.41	0.45
tblVehicleEF	HHD	7.8000e-005	4.1733e-006

tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.7200e-004	9.8721e-005
tblVehicleEF	HHD	0.08	2.8340e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6200e-004	8.4026e-007
tblVehicleEF	HHD	1.0300e-004	5.8985e-006
tblVehicleEF	HHD	4.5010e-003	2.2896e-004
tblVehicleEF	HHD	0.49	0.52
tblVehicleEF	HHD	7.8000e-005	4.1733e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.7200e-004	9.8721e-005
tblVehicleEF	HHD	0.08	3.1029e-006
tblVehicleEF	HHD	0.45	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.07	5.1512e-007
tblVehicleEF	HHD	1.19	6.61
tblVehicleEF	HHD	1.07	0.46
tblVehicleEF	HHD	3.16	9.0653e-003
tblVehicleEF	HHD	4,731.10	1,114.15
tblVehicleEF	HHD	1,572.96	1,400.16
tblVehicleEF	HHD	10.75	0.08
tblVehicleEF	HHD	14.76	5.50
tblVehicleEF	HHD	2.01	2.56
tblVehicleEF	HHD	19.49	2.35
tblVehicleEF	HHD	8.4600e-003	2.7790e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	8.0940e-003	2.6588e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
tblVehicleEF	HHD	1.5600e-004	9.2271e-006
tblVehicleEF	HHD	4.6140e-003	2.3361e-004
tblVehicleEF	HHD	0.39	0.48
tblVehicleEF	HHD	1.1200e-004	6.2951e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.6000e-004	9.7110e-005
tblVehicleEF	HHD	0.07	2.7227e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.5900e-004	8.3274e-007
tblVehicleEF	HHD	1.5600e-004	9.2271e-006
tblVehicleEF	HHD	4.6140e-003	2.3361e-004
tblVehicleEF	HHD	0.46	0.55
tblVehicleEF	HHD	1.1200e-004	6.2951e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.6000e-004	9.7110e-005
tblVehicleEF	HHD	0.08	2.9810e-006
tblVehicleEF	HHD	0.52	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.07	5.4302e-007
tblVehicleEF	HHD	2.25	6.84
tblVehicleEF	HHD	1.06	0.46
tblVehicleEF	HHD	3.36	9.6392e-003
tblVehicleEF	HHD	4,099.40	1,144.37
tblVehicleEF	HHD	1,572.96	1,400.16
tblVehicleEF	HHD	10.75	0.09
tblVehicleEF	HHD	13.67	6.10
tblVehicleEF	HHD	2.09	2.66
tblVehicleEF	HHD	19.50	2.35
tblVehicleEF	HHD	0.01	3.7625e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2960e-003	0.02
tblVehicleEF	HHD	9.1000e-005	1.3513e-006
tblVehicleEF	HHD	0.01	3.5997e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
tblVehicleEF	HHD	1.0000e-004	6.1295e-006
tblVehicleEF	HHD	4.7840e-003	2.5916e-004
tblVehicleEF	HHD	0.45	0.42
tblVehicleEF	HHD	7.6000e-005	4.1548e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	4.0500e-004	1.0501e-004
tblVehicleEF	HHD	0.08	2.8597e-006

tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6300e-004	8.4175e-007
tblVehicleEF	HHD	1.0000e-004	6.1295e-006
tblVehicleEF	HHD	4.7840e-003	2.5916e-004
tblVehicleEF	HHD	0.53	0.48
tblVehicleEF	HHD	7.6000e-005	4.1548e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	4.0500e-004	1.0501e-004
tblVehicleEF	HHD	0.08	3.1310e-006
tblVehicleEF	LDA	4.8310e-003	2.6488e-003
tblVehicleEF	LDA	4.7360e-003	0.05
tblVehicleEF	LDA	0.61	0.67
tblVehicleEF	LDA	1.04	2.04
tblVehicleEF	LDA	263.16	262.26
tblVehicleEF	LDA	54.94	51.65
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.6360e-003	2.5944e-003
tblVehicleEF	LDA	5.6700e-004	5.1108e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.1340e-003	2.8292e-003
tblVehicleEF	LDA	4.2110e-003	0.04
tblVehicleEF	LDA	0.67	0.73
tblVehicleEF	LDA	0.89	1.74
tblVehicleEF	LDA	275.40	273.72
tblVehicleEF	LDA	54.94	51.10
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003

tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.7590e-003	2.7078e-003
tblVehicleEF	LDA	5.6400e-004	5.0571e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	4.7330e-003	2.5922e-003
tblVehicleEF	LDA	4.8460e-003	0.05
tblVehicleEF	LDA	0.59	0.64
tblVehicleEF	LDA	1.08	2.10
tblVehicleEF	LDA	258.68	258.02
tblVehicleEF	LDA	54.94	51.77
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003

tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.5910e-003	2.5525e-003
tblVehicleEF	LDA	5.6700e-004	5.1232e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.7162e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.30
tblVehicleEF	LDT1	2.49	2.19
tblVehicleEF	LDT1	330.49	309.40
tblVehicleEF	LDT1	67.47	61.42
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.14	0.24

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.3240e-003	3.0617e-003
tblVehicleEF	LDT1	7.1800e-004	6.0783e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.01	7.1128e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.65	1.41
tblVehicleEF	LDT1	2.11	1.86
tblVehicleEF	LDT1	344.92	321.09

tblVehicleEF	LDT1	67.47	60.79
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.15	0.07
tblVehicleEF	LDT1	0.15	0.28
tblVehicleEF	LDT1	3.4700e-003	3.1774e-003
tblVehicleEF	LDT1	7.1200e-004	6.0161e-004
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.15	0.07
tblVehicleEF	LDT1	0.16	0.31
tblVehicleEF	LDT1	0.01	6.5898e-003
tblVehicleEF	LDT1	0.01	0.07

tblVehicleEF	LDT1	1.47	1.26
tblVehicleEF	LDT1	2.57	2.26
tblVehicleEF	LDT1	325.20	305.08
tblVehicleEF	LDT1	67.47	61.57
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.10
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.2700e-003	3.0190e-003
tblVehicleEF	LDT1	7.1900e-004	6.0927e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.19	0.10

tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	6.6130e-003	4.4259e-003
tblVehicleEF	LDT2	5.6850e-003	0.06
tblVehicleEF	LDT2	0.79	0.94
tblVehicleEF	LDT2	1.23	2.55
tblVehicleEF	LDT2	368.32	328.56
tblVehicleEF	LDT2	75.43	65.70
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.25
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6890e-003	3.2504e-003
tblVehicleEF	LDT2	7.7500e-004	6.5019e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12

tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0150e-003	4.7109e-003
tblVehicleEF	LDT2	5.0630e-003	0.06
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.06	2.18
tblVehicleEF	LDT2	384.82	339.87
tblVehicleEF	LDT2	75.43	65.01
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.8550e-003	3.3624e-003

tblVehicleEF	LDT2	7.7200e-004	6.4329e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LDT2	6.4820e-003	4.3362e-003
tblVehicleEF	LDT2	5.8190e-003	0.06
tblVehicleEF	LDT2	0.76	0.91
tblVehicleEF	LDT2	1.27	2.64
tblVehicleEF	LDT2	362.26	324.38
tblVehicleEF	LDT2	75.43	65.86
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6280e-003	3.2090e-003
tblVehicleEF	LDT2	7.7500e-004	6.5178e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.09	0.32
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tblVehicleEF	LHD1	0.01	4.9911e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.75	0.57
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.98
tblVehicleEF	LHD1	32.17	12.06
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.86	0.55
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004

tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.19
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
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tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.30	0.19
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3761e-003
tblVehicleEF	LHD1	0.01	5.0878e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.76	0.58

tblVehicleEF	LHD1	2.46	1.03
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	653.00
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tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.81	0.52
tblVehicleEF	LHD1	0.91	0.30
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
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tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.29	0.18
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
tblVehicleEF	LHD1	5.8400e-003	6.3745e-003
tblVehicleEF	LHD1	3.6700e-004	1.1848e-004

tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.29	0.18
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tblVehicleEF	LHD1	5.2860e-003	5.3623e-003
tblVehicleEF	LHD1	0.01	4.9647e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.74	0.56
tblVehicleEF	LHD1	2.59	1.09
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.97
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tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.85	0.54
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
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tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003

tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.32	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
tblVehicleEF	LHD1	5.8400e-003	6.3742e-003
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tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.7460e-003	3.7399e-003
tblVehicleEF	LHD2	3.7700e-003	3.5361e-003
tblVehicleEF	LHD2	7.4580e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07

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tblVehicleEF	LHD2	0.55	0.71
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tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
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tblVehicleEF	LHD2	0.01	0.02
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tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003
tblVehicleEF	LHD2	2.9200e-004	9.1193e-005
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
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tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.11	0.05
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tblVehicleEF	LHD2	7.2080e-003	9.7971e-003
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tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.20	0.69
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tblVehicleEF	LHD2	0.09	0.08
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tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
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tblVehicleEF	LHD2	0.01	0.02
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tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.10	0.05
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tblVehicleEF	LHD2	2.9100e-004	9.0638e-005
tblVehicleEF	LHD2	1.5320e-003	2.1079e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.11
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tblVehicleEF	LHD2	7.5080e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.38
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.06
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tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.69

tblVehicleEF	LHD2	0.51	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
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tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.12
tblVehicleEF	LHD2	0.10	0.05
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
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tblVehicleEF	LHD2	0.08	0.12

tblVehicleEF	LHD2	0.11	0.05
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tblVehicleEF	MCY	0.15	0.23
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tblVehicleEF	MCY	9.68	8.54
tblVehicleEF	MCY	189.29	223.65
tblVehicleEF	MCY	44.13	59.21
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	0.58	0.55
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.2780e-003	2.2132e-003
tblVehicleEF	MCY	6.5900e-004	5.8591e-004
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64

tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	3.22	3.23
tblVehicleEF	MCY	0.58	0.55
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.05	18.15
tblVehicleEF	MCY	8.84	7.77
tblVehicleEF	MCY	189.29	222.30
tblVehicleEF	MCY	44.13	57.32
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	2.52	2.54
tblVehicleEF	MCY	0.54	0.51
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.2650e-003	2.1999e-003

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tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	3.15	3.16
tblVehicleEF	MCY	0.54	0.51
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.82	19.00
tblVehicleEF	MCY	9.83	8.69
tblVehicleEF	MCY	189.29	223.92
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tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	2.59	2.61

tblVehicleEF	MCY	0.67	0.63
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.2800e-003	2.2159e-003
tblVehicleEF	MCY	6.6300e-004	5.8968e-004
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.67	0.63
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	5.6774e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.21	1.09
tblVehicleEF	MDV	2.22	2.92
tblVehicleEF	MDV	495.22	403.78
tblVehicleEF	MDV	99.91	79.83
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.19	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08

tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	4.9590e-003	3.9917e-003
tblVehicleEF	MDV	1.0380e-003	7.9003e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.0286e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.32	1.19
tblVehicleEF	MDV	1.90	2.49
tblVehicleEF	MDV	516.89	415.58
tblVehicleEF	MDV	99.91	79.02
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.18	0.29
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003

tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.15	0.32
tblVehicleEF	MDV	5.1770e-003	4.1085e-003
tblVehicleEF	MDV	1.0320e-003	7.8192e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MDV	0.01	5.5643e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.17	1.05
tblVehicleEF	MDV	2.29	3.02
tblVehicleEF	MDV	487.26	399.41
tblVehicleEF	MDV	99.91	80.02
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.20	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003

tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	4.8790e-003	3.9485e-003
tblVehicleEF	MDV	1.0390e-003	7.9190e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MH	0.02	8.6582e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.76	0.97
tblVehicleEF	MH	5.23	2.03
tblVehicleEF	MH	1,125.05	1,475.23
tblVehicleEF	MH	59.88	18.84
tblVehicleEF	MH	1.00	1.04
tblVehicleEF	MH	0.75	0.25

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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	0.84	0.73
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.36	0.31
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9000e-004	1.8641e-004
tblVehicleEF	MH	0.84	0.73
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.36	0.31
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.02	8.8559e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.81	1.00
tblVehicleEF	MH	4.92	1.92
tblVehicleEF	MH	1,125.05	1,475.27

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tblVehicleEF	MH	0.71	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	1.24	1.04
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.51	0.43
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8454e-004
tblVehicleEF	MH	1.24	1.04
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.51	0.43
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.10
tblVehicleEF	MH	0.02	8.6008e-003
tblVehicleEF	MH	0.02	0.02

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tblVehicleEF	MH	59.88	18.88
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	0.95	0.82
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.37	0.32
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9000e-004	1.8679e-004
tblVehicleEF	MH	0.95	0.82
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.37	0.32
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01

tblVehicleEF	MH	0.33	0.10
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tblVehicleEF	MHD	3.8910e-003	2.0984e-003
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tblVehicleEF	MHD	0.36	0.40
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tblVehicleEF	MHD	9.98	1.58
tblVehicleEF	MHD	1.0200e-004	3.2629e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	9.7000e-005	3.1218e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004
tblVehicleEF	MHD	1.0540e-003	6.2271e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0500e-004	4.1013e-004

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tblVehicleEF	MHD	0.02	0.03
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tblVehicleEF	MHD	1.2580e-003	6.1463e-004
tblVehicleEF	MHD	0.01	9.8543e-003
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tblVehicleEF	MHD	1.0540e-003	6.2271e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.0500e-004	4.1013e-004
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tblVehicleEF	MHD	0.02	0.03
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tblVehicleEF	MHD	0.01	4.2036e-003
tblVehicleEF	MHD	3.9490e-003	2.1413e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.34
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.34	1.31
tblVehicleEF	MHD	138.27	64.79
tblVehicleEF	MHD	1,141.08	1,031.15
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tblVehicleEF	MHD	0.71	1.02
tblVehicleEF	MHD	9.94	1.58
tblVehicleEF	MHD	8.6000e-005	2.7779e-004
tblVehicleEF	MHD	0.13	0.13

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	8.2000e-005	2.6577e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
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tblVehicleEF	MHD	1.5770e-003	9.2474e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
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tblVehicleEF	MHD	0.02	0.02
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tblVehicleEF	MHD	1.5770e-003	9.2474e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.07
tblVehicleEF	MHD	0.02	4.7556e-003
tblVehicleEF	MHD	3.8750e-003	2.0848e-003

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tblVehicleEF	MHD	0.33	0.36
tblVehicleEF	MHD	0.74	1.06
tblVehicleEF	MHD	9.99	1.58
tblVehicleEF	MHD	1.2400e-004	3.9328e-004
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	1.1800e-004	3.7627e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004
tblVehicleEF	MHD	1.0750e-003	6.3847e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.8500e-004	3.9956e-004
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tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.35	0.06

tblVehicleEF	MHD	1.1580e-003	6.1340e-004
tblVehicleEF	MHD	0.01	9.8543e-003
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tblVehicleEF	MHD	1.0750e-003	6.3847e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.8500e-004	3.9956e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.38	0.07
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tblVehicleEF	OBUS	6.0280e-003	4.9407e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.61
tblVehicleEF	OBUS	0.45	0.61
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tblVehicleEF	OBUS	101.82	90.25
tblVehicleEF	OBUS	1,246.68	1,357.87
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tblVehicleEF	OBUS	0.69	1.16
tblVehicleEF	OBUS	2.52	0.84
tblVehicleEF	OBUS	2.0000e-005	1.1818e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
tblVehicleEF	OBUS	8.2900e-004	2.0001e-004

tblVehicleEF	OBUS	1.9000e-005	1.1307e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
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tblVehicleEF	OBUS	7.6900e-004	1.8827e-004
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tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	OBUS	0.24	0.61
tblVehicleEF	OBUS	0.45	0.63

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tblVehicleEF	OBUS	106.89	89.21
tblVehicleEF	OBUS	1,246.68	1,357.89
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tblVehicleEF	OBUS	0.64	1.09
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tblVehicleEF	OBUS	1.7000e-005	1.0501e-004
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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
tblVehicleEF	OBUS	7.6200e-004	1.8390e-004
tblVehicleEF	OBUS	2.0710e-003	2.6502e-003
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tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	1.0320e-003	8.4822e-004
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tblVehicleEF	OBUS	7.6400e-004	1.8613e-004

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tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.2137e-003
tblVehicleEF	OBUS	5.9990e-003	4.9102e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.62
tblVehicleEF	OBUS	0.45	0.61
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tblVehicleEF	OBUS	2.53	0.84
tblVehicleEF	OBUS	2.4000e-005	1.3636e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
tblVehicleEF	OBUS	8.2900e-004	2.0001e-004
tblVehicleEF	OBUS	2.3000e-005	1.3046e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003

tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
tblVehicleEF	OBUS	7.6200e-004	1.8390e-004
tblVehicleEF	OBUS	1.4400e-003	1.9124e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4400e-004	9.3077e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	9.1700e-004	8.7139e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7000e-004	1.8872e-004
tblVehicleEF	OBUS	1.4400e-003	1.9124e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.4400e-004	9.3077e-004
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7075e-003
tblVehicleEF	SBUS	0.06	7.0645e-003
tblVehicleEF	SBUS	8.28	3.14
tblVehicleEF	SBUS	0.67	0.57
tblVehicleEF	SBUS	7.16	0.97
tblVehicleEF	SBUS	1,105.31	358.54
tblVehicleEF	SBUS	1,070.53	1,098.16

tblVehicleEF	SBUS	56.44	5.97
tblVehicleEF	SBUS	8.50	3.03
tblVehicleEF	SBUS	3.81	4.38
tblVehicleEF	SBUS	11.84	0.95
tblVehicleEF	SBUS	8.1160e-003	3.5863e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	7.7650e-003	3.4312e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	3.3720e-003	1.0292e-003
tblVehicleEF	SBUS	0.03	8.9743e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.8240e-003	5.5949e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3855e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8800e-004	5.9097e-005
tblVehicleEF	SBUS	3.3720e-003	1.0292e-003
tblVehicleEF	SBUS	0.03	8.9743e-003
tblVehicleEF	SBUS	1.43	0.52

tblVehicleEF	SBUS	1.8240e-003	5.5949e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7846e-003
tblVehicleEF	SBUS	0.05	6.3039e-003
tblVehicleEF	SBUS	8.18	3.11
tblVehicleEF	SBUS	0.68	0.58
tblVehicleEF	SBUS	5.81	0.79
tblVehicleEF	SBUS	1,154.44	365.54
tblVehicleEF	SBUS	1,070.53	1,098.18
tblVehicleEF	SBUS	56.44	5.68
tblVehicleEF	SBUS	8.77	3.09
tblVehicleEF	SBUS	3.59	4.13
tblVehicleEF	SBUS	11.81	0.95
tblVehicleEF	SBUS	6.8420e-003	3.0311e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	6.5460e-003	2.9000e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	4.9610e-003	1.4874e-003

tblVehicleEF	SBUS	0.03	9.1168e-003
tblVehicleEF	SBUS	0.98	0.36
tblVehicleEF	SBUS	2.5750e-003	7.7378e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.01	3.4522e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6600e-004	5.6163e-005
tblVehicleEF	SBUS	4.9610e-003	1.4874e-003
tblVehicleEF	SBUS	0.03	9.1168e-003
tblVehicleEF	SBUS	1.42	0.52
tblVehicleEF	SBUS	2.5750e-003	7.7378e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6841e-003
tblVehicleEF	SBUS	0.06	7.2391e-003
tblVehicleEF	SBUS	8.43	3.19
tblVehicleEF	SBUS	0.66	0.57
tblVehicleEF	SBUS	7.40	1.00
tblVehicleEF	SBUS	1,037.46	348.88
tblVehicleEF	SBUS	1,070.53	1,098.16
tblVehicleEF	SBUS	56.44	6.03
tblVehicleEF	SBUS	8.13	2.95
tblVehicleEF	SBUS	3.74	4.30

tblVehicleEF	SBUS	11.85	0.96
tblVehicleEF	SBUS	9.8760e-003	4.3531e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	9.4480e-003	4.1648e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	3.3940e-003	1.0334e-003
tblVehicleEF	SBUS	0.03	9.3494e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.7490e-003	5.3556e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2934e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.9200e-004	5.9658e-005
tblVehicleEF	SBUS	3.3940e-003	1.0334e-003
tblVehicleEF	SBUS	0.03	9.3494e-003
tblVehicleEF	SBUS	1.43	0.52
tblVehicleEF	SBUS	1.7490e-003	5.3556e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.68	45.42
tblVehicleEF	UBUS	8.84	0.71
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.42
tblVehicleEF	UBUS	9.33	0.47
tblVehicleEF	UBUS	15.09	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.1100e-003	5.4675e-004
tblVehicleEF	UBUS	0.07	7.4129e-003
tblVehicleEF	UBUS	2.4100e-003	4.3392e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.02	1.8386e-003
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1630e-003	8.3318e-005
tblVehicleEF	UBUS	4.1100e-003	5.4675e-004
tblVehicleEF	UBUS	0.07	7.4129e-003

tblVehicleEF	UBUS	2.4100e-003	4.3392e-004
tblVehicleEF	UBUS	3.32	5.97
tblVehicleEF	UBUS	0.02	1.8386e-003
tblVehicleEF	UBUS	0.75	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	9.9367e-003
tblVehicleEF	UBUS	10.72	45.42
tblVehicleEF	UBUS	7.66	0.63
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.27
tblVehicleEF	UBUS	8.79	0.47
tblVehicleEF	UBUS	15.04	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	5.8640e-003	7.9323e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	1.6648e-003
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.8070e-003	1.4048e-003

tblVehicleEF	UBUS	1.1430e-003	8.1863e-005
tblVehicleEF	UBUS	5.8640e-003	7.9323e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	3.33	5.97
tblVehicleEF	UBUS	0.02	1.6648e-003
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.66	45.42
tblVehicleEF	UBUS	9.05	0.73
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.45
tblVehicleEF	UBUS	9.15	0.47
tblVehicleEF	UBUS	15.10	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.6290e-003	5.3736e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	0.79	0.09

tblVehicleEF	UBUS	0.03	2.2448e-003
tblVehicleEF	UBUS	0.70	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1670e-003	8.3611e-005
tblVehicleEF	UBUS	4.6290e-003	5.3736e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	3.31	5.97
tblVehicleEF	UBUS	0.03	2.2448e-003
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	ST_TR	6.39	4.97
tblVehicleTrips	SU_TR	5.86	4.55
tblVehicleTrips	WD_TR	6.65	5.17
tblWoodstoves	NumberCatalytic	13.25	0.00
tblWoodstoves	NumberNoncatalytic	13.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1974	1.6657	1.3815	2.3800e-003	0.0647	0.0841	0.1488	0.0292	0.0800	0.1092	0.0000	200.2153	200.2153	0.0422	0.0000	201.2704
2022	0.3548	2.6905	2.7386	4.7500e-003	0.0000	0.1267	0.1267	0.0000	0.1224	0.1224	0.0000	390.7308	390.7308	0.0681	0.0000	392.4322
2023	1.0449	1.5630	1.7315	2.9900e-003	0.0000	0.0696	0.0696	0.0000	0.0670	0.0670	0.0000	247.4874	247.4874	0.0448	0.0000	248.6075
Maximum	**1.0449**	**2.6905**	**2.7386**	**4.7500e-003**	**0.0647**	**0.1267**	**0.1488**	**0.0292**	**0.1224**	**0.1224**	**0.0000**	**390.7308**	**390.7308**	**0.0681**	**0.0000**	**392.4322**

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					
2021	0.1974	1.6657	1.3815	2.3800e-003	0.0253	0.0841	0.1094	0.0114	0.0800	0.0914	0.0000	200.2151	200.2151	0.0422	0.0000	201.2701
2022	0.3548	2.6905	2.7386	4.7500e-003	0.0000	0.1267	0.1267	0.0000	0.1224	0.1224	0.0000	390.7304	390.7304	0.0681	0.0000	392.4317
2023	1.0449	1.5630	1.7315	2.9900e-003	0.0000	0.0696	0.0696	0.0000	0.0670	0.0670	0.0000	247.4871	247.4871	0.0448	0.0000	248.6072
Maximum	**1.0449**	**2.6905**	**2.7386**	**4.7500e-003**	**0.0253**	**0.1267**	**0.1267**	**0.0114**	**0.1224**	**0.1224**	**0.0000**	**390.7304**	**390.7304**	**0.0681**	**0.0000**	**392.4317**

Gardena Transit-Oriented Development Specific Plan - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**60.99**	**0.00**	**11.44**	**61.00**	**0.00**	**5.97**	**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	**7-1-2021**	**9-30-2021**	1.0240	1.0240
2	**10-1-2021**	**12-31-2021**	0.8375	0.8375
3	**1-1-2022**	**3-31-2022**	0.7505	0.7505
4	**4-1-2022**	**6-30-2022**	0.7589	0.7589
5	**7-1-2022**	**9-30-2022**	0.7672	0.7672
6	**10-1-2022**	**12-31-2022**	0.7672	0.7672
7	**1-1-2023**	**3-31-2023**	0.7019	0.7019
8	**4-1-2023**	**6-30-2023**	0.7097	0.7097
9	**7-1-2023**	**9-30-2023**	1.2032	1.2032
		Highest	1.2032	1.2032

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	1.1318	0.0315	2.7370	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4709	4.4709	4.3100e-003	0.0000	4.5787
Energy	0.0162	0.1388	0.0591	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	456.2312	456.2312	0.0191	6.2700e-003	458.5770
Mobile	0.4217	1.0842	6.0515	0.0178	1.7291	0.0136	1.7427	0.4624	0.0127	0.4751	0.0000	1,660.8716	1,660.8716	0.1039	0.0000	1,663.4692
Stationary	0.0160	0.0446	0.0407	8.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	7.4065	7.4065	1.0400e-003	0.0000	7.4325
Waste						0.0000	0.0000		0.0000	0.0000	24.7446	0.0000	24.7446	1.4624	0.0000	61.3037
Water						0.0000	0.0000		0.0000	0.0000	5.4777	83.7470	89.2247	0.5672	0.0142	107.6427
Total	**1.5857**	**1.2992**	**8.8882**	**0.0189**	**1.7291**	**0.0423**	**1.7714**	**0.4624**	**0.0414**	**0.5038**	**30.2223**	**2,212.7271**	**2,242.9494**	**2.1579**	**0.0205**	**2,303.0037**

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	1.1318	0.0315	2.7370	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4709	4.4709	4.3100e-003	0.0000	4.5787
Energy	0.0162	0.1388	0.0591	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	456.2312	456.2312	0.0191	6.2700e-003	458.5770
Mobile	0.4217	1.0842	6.0515	0.0178	1.7291	0.0136	1.7427	0.4624	0.0127	0.4751	0.0000	1,660.8716	1,660.8716	0.1039	0.0000	1,663.4692
Stationary	0.0160	0.0446	0.0407	8.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	7.4065	7.4065	1.0400e-003	0.0000	7.4325
Waste						0.0000	0.0000		0.0000	0.0000	24.7446	0.0000	24.7446	1.4624	0.0000	61.3037
Water						0.0000	0.0000		0.0000	0.0000	5.4777	83.7470	89.2247	0.5672	0.0142	107.6427
Total	**1.5857**	**1.2992**	**8.8882**	**0.0189**	**1.7291**	**0.0423**	**1.7714**	**0.4624**	**0.0414**	**0.5038**	**30.2223**	**2,212.7271**	**2,242.9494**	**2.1579**	**0.0205**	**2,303.0037**

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

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	15.5760
Total	**15.5760**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/16/2021	6	40	
2	Site Preparation	Site Preparation	8/17/2021	8/22/2021	6	5	
3	Grading	Grading	8/23/2021	9/2/2021	6	10	
4	Building Construction	Building Construction	9/3/2021	7/25/2023	6	592	
5	Architectural Coating	Architectural Coating	7/26/2023	8/28/2023	6	29	
6	Paving	Paving	8/29/2023	9/29/2023	6	28	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 3.75

Acres of Paving: 0

Residential Indoor: 536,625; Residential Outdoor: 178,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,600 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	11.00	81	0.73
Demolition	Rubber Tired Dozers	1	11.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	11.00	97	0.37
Site Preparation	Graders	1	11.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	9.63	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	11.00	97	0.37
Grading	Graders	1	8.25	187	0.41
Grading	Rubber Tired Dozers	1	8.25	247	0.40
Grading	Tractors/Loaders/Backhoes	1	9.63	97	0.37
Building Construction	Cranes	1	8.25	231	0.29
Building Construction	Forklifts	1	8.25	89	0.20
Building Construction	Generator Sets	1	11.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.25	97	0.37
Building Construction	Welders	3	11.00	46	0.45
Architectural Coating	Air Compressors	1	8.25	78	0.48
Paving	Cement and Mortar Mixers	1	8.25	9	0.56
Paving	Pavers	1	8.25	130	0.42
Paving	Paving Equipment	1	11.00	132	0.36
Paving	Rollers	1	9.63	80	0.38
Paving	Tractors/Loaders/Backhoes	1	11.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					0.0118	0.0000	0.0118	1.7900e-003	0.0000	1.7900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0548	0.5417	0.3985	6.6000e-004		0.0286	0.0286		0.0267	0.0267	0.0000	57.9462	57.9462	0.0148	0.0000	58.3166
Total	**0.0548**	**0.5417**	**0.3985**	**6.6000e-004**	**0.0118**	**0.0286**	**0.0404**	**1.7900e-003**	**0.0267**	**0.0285**	**0.0000**	**57.9462**	**57.9462**	**0.0148**	**0.0000**	**58.3166**

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.6100e-003	0.0000	4.6100e-003	7.0000e-004	0.0000	7.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0548	0.5417	0.3985	6.6000e-004		0.0286	0.0286		0.0267	0.0267	0.0000	57.9461	57.9461	0.0148	0.0000	58.3165
Total	**0.0548**	**0.5417**	**0.3985**	**6.6000e-004**	**4.6100e-003**	**0.0286**	**0.0332**	**7.0000e-004**	**0.0267**	**0.0274**	**0.0000**	**57.9461**	**57.9461**	**0.0148**	**0.0000**	**58.3165**

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0194	0.0000	0.0194	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3500e-003	0.0599	0.0260	6.0000e-005		2.6300e-003	2.6300e-003		2.4200e-003	2.4200e-003	0.0000	5.1970	5.1970	1.6800e-003	0.0000	5.2390
Total	**5.3500e-003**	**0.0599**	**0.0260**	**6.0000e-005**	**0.0194**	**2.6300e-003**	**0.0221**	**0.0101**	**2.4200e-003**	**0.0125**	**0.0000**	**5.1970**	**5.1970**	**1.6800e-003**	**0.0000**	**5.2390**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.5800e-003	0.0000	7.5800e-003	3.9400e-003	0.0000	3.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3500e-003	0.0599	0.0260	6.0000e-005		2.6300e-003	2.6300e-003		2.4200e-003	2.4200e-003	0.0000	5.1969	5.1969	1.6800e-003	0.0000	5.2390
Total	**5.3500e-003**	**0.0599**	**0.0260**	**6.0000e-005**	**7.5800e-003**	**2.6300e-003**	**0.0102**	**3.9400e-003**	**2.4200e-003**	**6.3600e-003**	**0.0000**	**5.1969**	**5.1969**	**1.6800e-003**	**0.0000**	**5.2390**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0335	0.0000	0.0335	0.0174	0.0000	0.0174	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8600e-003	0.0985	0.0435	1.0000e-004		4.3900e-003	4.3900e-003		4.0300e-003	4.0300e-003	0.0000	8.5138	8.5138	2.7500e-003	0.0000	8.5826
Total	**8.8600e-003**	**0.0985**	**0.0435**	**1.0000e-004**	**0.0335**	**4.3900e-003**	**0.0379**	**0.0174**	**4.0300e-003**	**0.0214**	**0.0000**	**8.5138**	**8.5138**	**2.7500e-003**	**0.0000**	**8.5826**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0131	0.0000	0.0131	6.7700e-003	0.0000	6.7700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8600e-003	0.0985	0.0435	1.0000e-004		4.3900e-003	4.3900e-003		4.0300e-003	4.0300e-003	0.0000	8.5138	8.5138	2.7500e-003	0.0000	8.5826
Total	**8.8600e-003**	**0.0985**	**0.0435**	**1.0000e-004**	**0.0131**	**4.3900e-003**	**0.0175**	**6.7700e-003**	**4.0300e-003**	**0.0108**	**0.0000**	**8.5138**	**8.5138**	**2.7500e-003**	**0.0000**	**8.5826**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1284	0.9656	0.9134	1.5600e-003		0.0485	0.0485		0.0468	0.0468	0.0000	128.5584	128.5584	0.0230	0.0000	129.1322
Total	**0.1284**	**0.9656**	**0.9134**	**1.5600e-003**		**0.0485**	**0.0485**		**0.0468**	**0.0468**	**0.0000**	**128.5584**	**128.5584**	**0.0230**	**0.0000**	**129.1322**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1284	0.9656	0.9134	1.5600e-003		0.0485	0.0485		0.0468	0.0468	0.0000	128.5583	128.5583	0.0230	0.0000	129.1320
Total	**0.1284**	**0.9656**	**0.9134**	**1.5600e-003**		**0.0485**	**0.0485**		**0.0468**	**0.0468**	**0.0000**	**128.5583**	**128.5583**	**0.0230**	**0.0000**	**129.1320**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3548	2.6905	2.7386	4.7500e-003		0.1267	0.1267		0.1224	0.1224	0.0000	390.7308	390.7308	0.0681	0.0000	392.4322
Total	**0.3548**	**2.6905**	**2.7386**	**4.7500e-003**		**0.1267**	**0.1267**		**0.1224**	**0.1224**	**0.0000**	**390.7308**	**390.7308**	**0.0681**	**0.0000**	**392.4322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3548	2.6905	2.7386	4.7500e-003		0.1267	0.1267		0.1224	0.1224	0.0000	390.7304	390.7304	0.0681	0.0000	392.4317
Total	**0.3548**	**2.6905**	**2.7386**	**4.7500e-003**		**0.1267**	**0.1267**		**0.1224**	**0.1224**	**0.0000**	**390.7304**	**390.7304**	**0.0681**	**0.0000**	**392.4317**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1843	1.4170	1.5259	2.6700e-003		0.0623	0.0623		0.0601	0.0601	0.0000	219.7349	219.7349	0.0373	0.0000	220.6678
Total	**0.1843**	**1.4170**	**1.5259**	**2.6700e-003**		**0.0623**	**0.0623**		**0.0601**	**0.0601**	**0.0000**	**219.7349**	**219.7349**	**0.0373**	**0.0000**	**220.6678**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1843	1.4170	1.5259	2.6700e-003		0.0623	0.0623		0.0601	0.0601	0.0000	219.7347	219.7347	0.0373	0.0000	220.6675
Total	**0.1843**	**1.4170**	**1.5259**	**2.6700e-003**		**0.0623**	**0.0623**		**0.0601**	**0.0601**	**0.0000**	**219.7347**	**219.7347**	**0.0373**	**0.0000**	**220.6675**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8444					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8200e-003	0.0260	0.0361	6.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	5.0906	5.0906	3.0000e-004	0.0000	5.0982
Total	**0.8482**	**0.0260**	**0.0361**	**6.0000e-005**		**1.4100e-003**	**1.4100e-003**		**1.4100e-003**	**1.4100e-003**	**0.0000**	**5.0906**	**5.0906**	**3.0000e-004**	**0.0000**	**5.0982**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8444					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8200e-003	0.0260	0.0361	6.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	5.0905	5.0905	3.0000e-004	0.0000	5.0982
Total	**0.8482**	**0.0260**	**0.0361**	**6.0000e-005**		**1.4100e-003**	**1.4100e-003**		**1.4100e-003**	**1.4100e-003**	**0.0000**	**5.0905**	**5.0905**	**3.0000e-004**	**0.0000**	**5.0982**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.1200	0.1695	2.6000e-004		5.9400e-003	5.9400e-003		5.4800e-003	5.4800e-003	0.0000	22.6619	22.6619	7.1800e-003	0.0000	22.8415
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.1200**	**0.1695**	**2.6000e-004**		**5.9400e-003**	**5.9400e-003**		**5.4800e-003**	**5.4800e-003**	**0.0000**	**22.6619**	**22.6619**	**7.1800e-003**	**0.0000**	**22.8415**

3.7 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0124	0.1200	0.1695	2.6000e-004		5.9400e-003	5.9400e-003		5.4800e-003	5.4800e-003	0.0000	22.6619	22.6619	7.1800e-003	0.0000	22.8415
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.1200**	**0.1695**	**2.6000e-004**		**5.9400e-003**	**5.9400e-003**		**5.4800e-003**	**5.4800e-003**	**0.0000**	**22.6619**	**22.6619**	**7.1800e-003**	**0.0000**	**22.8415**

3.7 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.4217	1.0842	6.0515	0.0178	1.7291	0.0136	1.7427	0.4624	0.0127	0.4751	0.0000	1,660.8716	1,660.8716	0.1039	0.0000	1,663.4692
Unmitigated	0.4217	1.0842	6.0515	0.0178	1.7291	0.0136	1.7427	0.4624	0.0127	0.4751	0.0000	1,660.8716	1,660.8716	0.1039	0.0000	1,663.4692

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,370.05	1,317.05	1205.75	4,575,591	4,575,591
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,370.05	1,317.05	1,205.75	4,575,591	4,575,591

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548537	0.062339	0.188526	0.118574	0.023741	0.006216	0.017891	0.025073	0.001420	0.001685	0.004487	0.000601	0.000907
Unenclosed Parking with Elevator	0.548537	0.062339	0.188526	0.118574	0.023741	0.006216	0.017891	0.025073	0.001420	0.001685	0.004487	0.000601	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	295.4667	295.4667	0.0161	3.3200e-003	296.8571
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	295.4667	295.4667	0.0161	3.3200e-003	296.8571
NaturalGas Mitigated	0.0162	0.1388	0.0591	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.7645	160.7645	3.0800e-003	2.9500e-003	161.7198
NaturalGas Unmitigated	0.0162	0.1388	0.0591	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.7645	160.7645	3.0800e-003	2.9500e-003	161.7198

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.01261e+006	0.0162	0.1388	0.0591	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.7645	160.7645	3.0800e-003	2.9500e-003	161.7198
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0162**	**0.1388**	**0.0591**	**8.9000e-004**		**0.0112**	**0.0112**		**0.0112**	**0.0112**	**0.0000**	**160.7645**	**160.7645**	**3.0800e-003**	**2.9500e-003**	**161.7198**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.01261e+006	0.0162	0.1388	0.0591	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.7645	160.7645	3.0800e-003	2.9500e-003	161.7198
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0162**	**0.1388**	**0.0591**	**8.9000e-004**		**0.0112**	**0.0112**		**0.0112**	**0.0112**	**0.0000**	**160.7645**	**160.7645**	**3.0800e-003**	**2.9500e-003**	**161.7198**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.02734e+006	248.8396	0.0135	2.8000e-003	250.0107
Unenclosed Parking with Elevator	192500	46.6270	2.5300e-003	5.2000e-004	46.8465
Total		**295.4667**	**0.0160**	**3.3200e-003**	**296.8571**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.02734e+006	248.8396	0.0135	2.8000e-003	250.0107
Unenclosed Parking with Elevator	192500	46.6270	2.5300e-003	5.2000e-004	46.8465
Total		**295.4667**	**0.0160**	**3.3200e-003**	**296.8571**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1318	0.0315	2.7370	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4709	4.4709	4.3100e-003	0.0000	4.5787
Unmitigated	1.1318	0.0315	2.7370	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4709	4.4709	4.3100e-003	0.0000	4.5787

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	0.0844					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0827	0.0315	2.7370	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4709	4.4709	4.3100e-003	0.0000	4.5787
Total	**1.1318**	**0.0315**	**2.7370**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.4709**	**4.4709**	**4.3100e-003**	**0.0000**	**4.5787**

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	0.0844					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0827	0.0315	2.7370	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4709	4.4709	4.3100e-003	0.0000	4.5787
Total	**1.1318**	**0.0315**	**2.7370**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.4709**	**4.4709**	**4.3100e-003**	**0.0000**	**4.5787**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	89.2247	0.5672	0.0142	107.6427
Unmitigated	89.2247	0.5672	0.0142	107.6427

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	17.2658 / 10.885	89.2247	0.5672	0.0142	107.6427
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**89.2247**	**0.5672**	**0.0142**	**107.6427**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	17.2658 / 10.885	89.2247	0.5672	0.0142	107.6427
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**89.2247**	**0.5672**	**0.0142**	**107.6427**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.7446	1.4624	0.0000	61.3037
Unmitigated	24.7446	1.4624	0.0000	61.3037

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	121.9	24.7446	1.4624	0.0000	61.3037
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**24.7446**	**1.4624**	**0.0000**	**61.3037**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	121.9	24.7446	1.4624	0.0000	61.3037
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**24.7446**	**1.4624**	**0.0000**	**61.3037**

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
Emergency Generator	1	6	50	389	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0160	0.0446	0.0407	8.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	7.4065	7.4065	1.0400e-003	0.0000	7.4325
Total	**0.0160**	**0.0446**	**0.0407**	**8.0000e-005**		**2.3500e-003**	**2.3500e-003**		**2.3500e-003**	**2.3500e-003**	**0.0000**	**7.4065**	**7.4065**	**1.0400e-003**	**0.0000**	**7.4325**

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	15.5760	0.0000	0.0000	15.5760

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	22	15.5760	0.0000	0.0000	15.5760
Total		**15.5760**	**0.0000**	**0.0000**	**15.5760**

APPENDIX B
CONSTRUCTION ON-ROAD EMISSIONS TABLES

Table B-1. Summary of Annual GHG Emissions
Gardena TOD Specific Plan
Gardena, California

Construction Phase	Year	Pollutant	On-Road Activity	Emissions (lbs/year)	Source
Architectural Coating	2023	CH4	Worker	0.36	Onroad
Architectural Coating	2023	CO2	Worker	13517.85	Onroad
Architectural Coating	2023	N2O	Worker	0.34	Onroad
Building Construction	2021	CH4	Vendor	3.53	Onroad
Building Construction	2021	CH4	Worker	8.06	Onroad
Building Construction	2021	CO2	Vendor	101267.63	Onroad
Building Construction	2021	CO2	Worker	258280.80	Onroad
Building Construction	2021	N2O	Vendor	14.61	Onroad
Building Construction	2021	N2O	Worker	7.19	Onroad
Building Construction	2022	CH4	Vendor	10.26	Onroad
Building Construction	2022	CH4	Worker	21.91	Onroad
Building Construction	2022	CO2	Vendor	299610.03	Onroad
Building Construction	2022	CO2	Worker	760274.27	Onroad
Building Construction	2022	N2O	Vendor	43.22	Onroad
Building Construction	2022	N2O	Worker	20.03	Onroad
Building Construction	2023	CH4	Vendor	5.51	Onroad
Building Construction	2023	CH4	Worker	11.05	Onroad
Building Construction	2023	CO2	Vendor	160480.16	Onroad
Building Construction	2023	CO2	Worker	413687.81	Onroad
Building Construction	2023	N2O	Vendor	23.10	Onroad
Building Construction	2023	N2O	Worker	10.38	Onroad
Demolition	2021	CH4	Hauling	0.41	Onroad
Demolition	2021	CH4	Worker	0.17	Onroad
Demolition	2021	CO2	Hauling	7609.34	Onroad
Demolition	2021	CO2	Worker	5501.86	Onroad
Demolition	2021	N2O	Hauling	1.21	Onroad
Demolition	2021	N2O	Worker	0.15	Onroad
Grading	2021	CH4	Hauling	3.74	Onroad
Grading	2021	CH4	Worker	0.03	Onroad
Grading	2021	CO2	Hauling	69810.49	Onroad
Grading	2021	CO2	Worker	846.44	Onroad
Grading	2021	N2O	Hauling	11.07	Onroad
Grading	2021	N2O	Worker	0.02	Onroad
Paving	2023	CH4	Worker	0.10	Onroad
Paving	2023	CO2	Worker	3610.05	Onroad
Paving	2023	N2O	Worker	0.09	Onroad
Site Preparation	2021	CH4	Worker	0.01	Onroad
Site Preparation	2021	CO2	Worker	423.22	Onroad
Site Preparation	2021	N2O	Worker	0.01	Onroad

Abbreviations:
CH_4 - methane
CO_2 - carbon dioxide
lb - pound
N_2O - nitrous oxide

Table B-2. Summary of On-Road Construction Trip Emission Factors
Gardena TOD Specific Plan
Gardena, California

Year	Fleet Mix	On-road Emission Factor	Units	Type	Pollutant
2021	LD_Mix	5.69E-03	g/mile	RUNEX	CH4
2021	LD_Mix	3.22E+02	g/mile	RUNEX	CO2
2021	LD_Mix	7.08E-03	g/mile	RUNEX	N2O
2021	LD_Mix	6.61E-02	g/trip	STREX	CH4
2021	LD_Mix	6.16E+01	g/trip	STREX	CO2
2021	LD_Mix	2.94E-02	g/trip	STREX	N2O
2022	LD_Mix	4.98E-03	g/mile	RUNEX	CH4
2022	LD_Mix	3.12E+02	g/mile	RUNEX	CO2
2022	LD_Mix	6.43E-03	g/mile	RUNEX	N2O
2022	LD_Mix	6.07E-02	g/trip	STREX	CH4
2022	LD_Mix	5.97E+01	g/trip	STREX	CO2
2022	LD_Mix	2.80E-02	g/trip	STREX	N2O
2023	LD_Mix	4.37E-03	g/mile	RUNEX	CH4
2023	LD_Mix	3.02E+02	g/mile	RUNEX	CO2
2023	LD_Mix	5.87E-03	g/mile	RUNEX	N2O
2023	LD_Mix	5.59E-02	g/trip	STREX	CH4
2023	LD_Mix	5.77E+01	g/trip	STREX	CO2
2023	LD_Mix	2.67E-02	g/trip	STREX	N2O
2021	MHDT/HHDT	1.64E-02	g/trip	IDLEX	CH4
2021	MHDT/HHDT	6.14E+02	g/trip	IDLEX	CO2
2021	MHDT/HHDT	9.63E-02	g/trip	IDLEX	N2O
2021	MHDT/HHDT	4.56E-02	g/mile	RUNEX	CH4
2021	MHDT/HHDT	1.32E+03	g/mile	RUNEX	CO2
2021	MHDT/HHDT	1.88E-01	g/mile	RUNEX	N2O
2021	MHDT/HHDT	6.53E-03	g/trip	STREX	CH4
2021	MHDT/HHDT	6.28E+00	g/trip	STREX	CO2
2021	MHDT/HHDT	4.63E-03	g/trip	STREX	N2O
2022	MHDT/HHDT	1.64E-02	g/trip	IDLEX	CH4
2022	MHDT/HHDT	6.23E+02	g/trip	IDLEX	CO2
2022	MHDT/HHDT	9.77E-02	g/trip	IDLEX	N2O
2022	MHDT/HHDT	4.36E-02	g/mile	RUNEX	CH4
2022	MHDT/HHDT	1.28E+03	g/mile	RUNEX	CO2
2022	MHDT/HHDT	1.82E-01	g/mile	RUNEX	N2O
2022	MHDT/HHDT	6.27E-03	g/trip	STREX	CH4
2022	MHDT/HHDT	6.14E+00	g/trip	STREX	CO2
2022	MHDT/HHDT	4.64E-03	g/trip	STREX	N2O
2023	MHDT/HHDT	1.66E-02	g/trip	IDLEX	CH4
2023	MHDT/HHDT	6.04E+02	g/trip	IDLEX	CO2
2023	MHDT/HHDT	9.48E-02	g/trip	IDLEX	N2O
2023	MHDT/HHDT	4.15E-02	g/mile	RUNEX	CH4
2023	MHDT/HHDT	1.21E+03	g/mile	RUNEX	CO2
2023	MHDT/HHDT	1.73E-01	g/mile	RUNEX	N2O

Table B-2. Summary of On-Road Construction Trip Emission Factors
Gardena TOD Specific Plan
Gardena, California

Year	Fleet Mix	On-road Emission Factor	Units	Type	Pollutant
2023	MHDT/HHDT	6.11E-03	g/trip	STREX	CH4
2023	MHDT/HHDT	6.08E+00	g/trip	STREX	CO2
2023	MHDT/HHDT	4.69E-03	g/trip	STREX	N2O
2021	HHDT	2.80E-02	g/trip	IDLEX	CH4
2021	HHDT	1.16E+03	g/trip	IDLEX	CO2
2021	HHDT	1.83E-01	g/trip	IDLEX	N2O
2021	HHDT	8.35E-02	g/mile	RUNEX	CH4
2021	HHDT	1.53E+03	g/mile	RUNEX	CO2
2021	HHDT	2.42E-01	g/mile	RUNEX	N2O
2021	HHDT	5.45E-07	g/trip	STREX	CH4
2021	HHDT	9.89E-02	g/trip	STREX	CO2
2021	HHDT	4.48E-05	g/trip	STREX	N2O
2022	HHDT	2.80E-02	g/trip	IDLEX	CH4
2022	HHDT	1.18E+03	g/trip	IDLEX	CO2
2022	HHDT	1.86E-01	g/trip	IDLEX	N2O
2022	HHDT	8.25E-02	g/mile	RUNEX	CH4
2022	HHDT	1.48E+03	g/mile	RUNEX	CO2
2022	HHDT	2.35E-01	g/mile	RUNEX	N2O
2022	HHDT	5.44E-07	g/trip	STREX	CH4
2022	HHDT	9.04E-02	g/trip	STREX	CO2
2022	HHDT	3.34E-05	g/trip	STREX	N2O
2023	HHDT	2.85E-02	g/trip	IDLEX	CH4
2023	HHDT	1.14E+03	g/trip	IDLEX	CO2
2023	HHDT	1.81E-01	g/trip	IDLEX	N2O
2023	HHDT	8.08E-02	g/mile	RUNEX	CH4
2023	HHDT	1.40E+03	g/mile	RUNEX	CO2
2023	HHDT	2.22E-01	g/mile	RUNEX	N2O
2023	HHDT	5.43E-07	g/trip	STREX	CH4
2023	HHDT	8.51E-02	g/trip	STREX	CO2
2023	HHDT	2.80E-05	g/trip	STREX	N2O

Abbreviations:

CH_4 - methane
CO_2 - carbon dioxide
g - grams
HHDT - heavy-heavy duty trucks
IDLEX - idling exhaust
LD - light-duty
MHDT - medium-heavy duty trucks
N_2O - nitrous oxide
RUNEX - running exhaust
STREX - starting exhaust

APPENDIX C
CONSISTENCY WITH CITY OF GARDENA CLIMATE ACTION PLAN

Appendix C. Consistency with City of Gardena Climate Action Plan
Gardena TOD Specific Plan
Gardena, California

Strategy	Goal	Goals	Consistency Analysis
Land Use and Transportation	A	Accelerate the market for EV vehicles	Consistent. The proposed Project will install seven Level 2 electric vehicle charging stations in the parking structure for the building tenants.
	B	Encourage ride-sharing	Consistent. A designated loading area within the GTODSP shall be signed and distinguished (e.g., with paving and/or paint) so that it may be utilized as a pick-up and drop-off zone for ride-sharing services.
	C	Encourage transit usage	Consistent. To ensure that residential tenants are aware of transit options and TDM programs available to them, an information board or kiosk shall be posted in a central location in the building. The developer shall offer future residents a one-time monthly Metro transit pass to encourage and help facilitate a culture of transit use by Project residents.
	D	Adopt active transporation initiatives	Consistent. One bicycle parking space shall be provided per every two residential units (located in secured facilities accessible only by residents). All bicycle parking shall be located in a safe, convenient location, encouraging the use of bicycle transportation by residents and guests.
	E	Parking strategies	Consistent. There shall be a charge for parking spaces. The property owner shall unbundle automobile parking charges from the rents or other fees charged for leasing residential units in the specific plan area.
	F	Organizational strategies	Consistent. The developer shall offer future residents a one-time monthly Metro transit pass to encourage and help facilitate a culture of transit use by Project residents.
	G	Land use strategies	Consistent. The residential development is planned to be built at a density of 199 dwelling units per acre.
	H	Digital technology strategies	Consistent. The proposed Project includes a digital billboard.
Energy Efficiency	A	Increase energy efficiency in existing residential units	Not Applicable. The proposed Project does not involve existing residential units.
	B	Increase energy efficiency in new residential developments	Consistent. The proposed Project will install a solar swimming pool heating system.
	C	Increase energy efficiency in existing commercial units	Not Applicable. The proposed Project is replacing a 24,000 square foot warehouse building.
	D	Increase energy efficiency in new commercial developments	Consistent. The proposed Project parking structure is unenclosed, requiring lighting but not ventilation, and will meet the 2019 Title 24 Part 6 building code.

Strategy	Goal	Goals	Consistency Analysis
Energy Efficiency	E	Increase energy efficiency through water efficiency	Consistent. The Project is expected comply with the California Green Building Code, which requires that indoor potable water use be reduced by 20 percent through the use of water saving fixtures and/or flow restrictors.
	F	Decrease energy demand through reducing urban heat island effect	Consistent. The residential development is planned to be built with 5.5 levels of residential development over 2.5 levels of parking to limit the urban sprawl of the development. The proposed Project will also have shade from a net new 22 trees.
	G	Participate in education, outreach, and planning for energy efficiency	Not Applicable. The proposed Project is a new residential development, so would not be directly involved in planning for energy efficiency.
	H	Increase energy efficiency in municipal buildings	Not Applicable. The proposed Project is a new residential development.
	I	Increase energy efficiency in city infrastructure	Not Applicable. The proposed Project is a new residential development.
	J	Reduce energy consumption in the long term	Consistent. New residential and non-residential buildings will meet the 2019 Title 24 Part 6 building code.
Solid Waste	A	Increase Diversion and Reduction of Residential Waste	Consistent. The Project is expected to comply with the state's waste diversion goal of 75% waste diversion by 2020.
	B	Increase Diversion and Reduction of Commercial Waste	Not Applicable. The proposed Project is a new residential development.
	C	Reduce and Divert Municipal Waste	Not Applicable. The proposed Project is a new residential development.
Urban Greening	A	Increase and maintain urban greening in the community	Consistent. The proposed Project includes approximately 8,500 square feet of open space and plans to plant 22 net new trees.
	B	Increase and maintain urban greening in municipal facilities	Not Applicable. The proposed Project does not involve municipal facilities.
Energy Generation & Storage	A	Support energy generation and storage in the community	Consistent. The proposed Project will install a solar swimming pool heating system.

Abbreviations:

GHG - greenhouse gas

GTODSP - Gardena Transit-Oriented Development Specific Plan

TDM - transportation demand management

Kimley»Horn

TECHNICAL MEMORANDUM

To: Ray Barragan and Lisa Kranitz, City of Gardena

From: Ace Malisos and Rita Garcia

Date: January 14, 2021

Subject: **Gardena Transit Oriented Development Specific Plan, 12850 and 12900 Crenshaw Boulevard, Greenhouse Gas Technical Report Peer Review**

Kimley-Horn has conducted a follow-up third-party peer review of the Project's Greenhouse Gas Technical Report (Ramboll US Corporation, November 2020) on behalf of the City of Gardena to verify that Kimley-Horn's November 10, 2020 third-party peer review Technical Memo (TM) recommendations have been incorporated. The revised November 2020 report addressed the third-party peer review comments and thus is in compliance with the TM recommendations. The analysis, as revised, meets the applicable provisions of CEQA and the State CEQA Guidelines and is adequate for inclusion in the Project EIR.

Please do not hesitate to contact Ace Malisos at 714.705.1380 or ace.malisos@kimley-horn.com with any questions.