APPENDIX B:
AIR QUALITY ANALYSIS TECHNICAL REPORT

Air Quality Technical Report

Supplemental Environmental Assessment
Central Terminal Area Expansion Project

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Table of Contents

1. Background 1-1
   1.1 Introduction 1-1
   1.2 Regulatory Setting 1-2
2. Methodology 2-1
   2.1 Need for Assessment 2-1
   2.2 Assessment Methodology 2-1
   2.3 Scenarios Evaluated 2-2
      2.3.1 Construction Scenarios Evaluated 2-2
      2.3.2 Operational Scenarios Evaluated 2-3
   2.4 Emission Inventory Development 2-3
      2.4.1 Construction Emissions Inventory 2-3
      2.4.2 Operational Emissions Inventory 2-8
3. Significance Thresholds and General Conformity 3-1
4. Results 4-1
   4.1 Construction Emissions Inventory 4-1
   4.2 Operational Emission Inventory 4-2
      4.2.1 Existing Aircraft Emissions Inventory 4-2
      4.2.2 Future Aircraft Emissions Inventory 4-3
      4.2.3 Change in Aircraft Operational Emissions 4-4
      4.2.4 Vehicle Traffic 4-4
   4.3 All Operational Sources Summary 4-5
   4.4 General Conformity De Minimis Thresholds 4-9
   4.5 Project Alternatives 4-10
   4.6 General Conformity Determination 4-10

Tables

Table 2-1. CTA Expansion Project and Terminal F Design Modifications 2-2
Table 2-2. MOVES County Scale Input Database Sources 2-4
Table 2-3. MOVES Process Grouping and Activity Surrogates 2-5
Table 2-4. Fugitive Emissions Estimation Methodology and Project Specific Adjustments 2-7
Table 2-5. Fugitives $PM_{2.5}$ to PM_{10} Emission Ratios 2-8
Table 2-6. DFW CTA Supplemental EA On-Road Fleet Mix 2-9
Table 2-7. DFW CTA Supplemental EA Operational On-Road VMT 2-10
Table 2-8. Existing Conditions (2024) Operations 2-12
Table 2-9. DFW Modeled Average Daily Aircraft Operations for Existing Conditions (2024) 2-12
Table 2-10. AEDT Stage Length Categories 2-14
Table 2-11. Existing Conditions - Modeled Departure Stage Length Distribution by Aircraft Type 2-14
Table 2-12. Runway Use Percentages, Existing Condition 2-16
Table 2-13. Existing Condition Taxi Times 2-17
Table 2-14. Fiscal Year to Calendar Year Adjustment 2-18
Table 2-15. Annual and AAD Forecast Operations for Emissions Model Input 2-18
Table 2-16. Annual and AAD Forecast Operations for Emissions Model Input 2-18
Table 2-17. DFW Modeled Average Daily Aircraft Operations for Future (2031) No Action Alternative 2-19
Table 2-18. Modeled Departure Stage Length Distribution by Aircraft Type for Future (2031) No Action Alternative 2-20
Table 2-19. Runway Use Percentages, Future 2031 and 2036 Conditions 2-22
Table 2-20. DFW Modeled Average Daily Aircraft Operations for Future (2031) Proposed Action Alternative. 2-22
Table 2-21. Modeled Departure Stage Length Distribution by Aircraft Type for Future (2031) Proposed Action Alternative 2-24
Table 2-22. DFW Modeled Average Daily Aircraft Operations for Future (2036) No Action Alternative 2-25
Table 2-23. Modeled Departure Stage Length Distribution by Aircraft Type for Future (2036) No Action Alternative 2-26
Table 2-24. DFW Modeled Average Daily Aircraft Operations for Future (2036) Proposed Action Alternative. 2-27
Table 2-25. Modeled Departure Stage Length Distribution by Aircraft Type for Future (2036) Proposed Action Alternative 2-28
Table 4-1. Proposed Action Construction Phase CAP Emissions 4-1
Table 4-2. Total Aircraft Operational Emissions for Existing Conditions (2024) 4-2
Table 4-3. Total Aircraft Operational Emissions for the 2031 No Action Alternative 4-3
Table 4-4. Total Aircraft Operational Emissions for the 2031 Proposed Action Alternative 4-3
Table 4-5. Total Aircraft Operational Emissions for the 2036 No Action Alternative 4-3
Table 4-6. Total Aircraft Operational Emissions for the 2036 Proposed Action Alternative 4-4
Table 4-7. Net Change in Aircraft Operational Emissions due to the Proposed Action Alternative 4-4
Table 4-8. Existing Conditions Vehicle Traffic CAP Emissions Inventory 4-4
Table 4-9. Operational Phase Vehicle Traffic CAP Emissions Inventory 4-5
Table 4-10. Existing Conditions Operational Phase CAP Emissions Inventory 4-5
Table 4-11. No Action CAP Emissions Inventory 4-5
Table 4-12. Proposed Project Operational Phase CAP Emissions Inventory 4-7
Table 4-13. Net Operational Phase CAP Emissions Inventory 4-8
Table 4-14. Combined Construction and Operational Emissions Compared to De Minimis Thresholds 4-10

Appendices

Appendix A: DFW CTA Expansion Project Construction Activity Data and Emission Rates.....A-1
Appendix B: Terminal F Design Modifications Construction Activity Data and Emission Rates.....B-1
Appendix C: Operational On-Rood Activity Data and Emission Rates.....C-1

1. Background

The Dallas Fort Worth International Airport (DFW or Airport) is proposing modifications to the Terminal F design and implementation schedule since the Federal Aviation Administration (FAA) issued a Finding of No Significant Impact and Record of Decision (FONSI/ROD) for the Central Terminal Area (CTA) Expansion Project in April 2024. DFW is proposing to enlarge the Terminal F structure to increase total passenger gates at this terminal to 31 and construct a Terminal F Garage and Ticketing Facility (collectively referred to as the Proposed Action).

Because these design modifications and schedule changes represent substantial changes to the Proposed Action and new circumstances relevant to the CTA Expansion Project that may have a bearing on environmental impacts, the DFW Environmental Affairs Department (EAD) is preparing a Supplemental Environmental Assessment (EA). As part of the Supplemental EA, an updated air quality analysis is required in accordance with FAA Orders 5050.4B[1] and 1050.1G,[2] which establish procedures for evaluating air quality impacts and compliance with applicable Clean Air Act (CAA) requirements.

A primary consideration associated with the Proposed Action is the potential for changes in air pollutant emissions resulting from both construction activities and airport operations. Emission sources evaluated include construction equipment and worker vehicles, aircraft operations, auxiliary power units (APUs), ground support equipment (GSE), and roadway traffic associated with passenger and aircraft activity.

1.1 Introduction

This Air Quality Technical Report documents the existing air quality conditions and evaluates the potential air quality impacts associated with the No Action Alternative and Proposed Action Alternative in support of the Supplemental EA. The analyses quantify emissions of criteria air pollutants (CAPs) associated with both construction and operational activities.

Construction emissions include those associated with the construction activities evaluated in the original CTA Expansion Project EA, together with emissions resulting from the proposed Terminal F design modifications and schedule changes. Operational emissions reflect changes in airport activity necessary to accommodate future passenger and aircraft movements. Operational emission sources evaluated include aircraft operations, auxiliary power units (APUs), ground support equipment (GSE), and roadway traffic associated with aircraft operations and passenger activity. The results of these analyses are compared with applicable CAA requirements, including General Conformity requirements, to determine whether implementation of the Proposed Action Alternative would result in significant air quality impacts under the National Environmental Policy Act (NEPA).

The Proposed Action described in this Supplemental EA would include the following components:

[1] FAA. 2006. Order 5050.4B *NEPA Implementing Instructions for Airport Actions*. Available at: https://www.faa.gov/airports/resources/publications/orders/environmental_5050_4. Accessed: June 2026.
[2] FAA. 2025. FAA Order 1050.1G *FAA National Environmental Policy Act Implementing Procedures*. Available at: https://www.faa.gov/documentLibrary/media/Order/FAA_Order_1050.1G.pdf. Accessed June 2026.

- Terminal F Garage and Ticketing Facility
- Roadways
- Terminal F concourse expansion (Node 1 and Node 2)
- Conversion of existing hardstands to contact gates at Terminal F
- Skylink
- Apron

These improvements would increase terminal capacity, enhance landside circulation and passenger wayfinding, and provide efficient connections to Terminal F and the Airport's inter-terminal transit system (Skylink).

1.2 Regulatory Setting

NEPA provides for an environmental review process to disclose the potential impacts, including air quality and climate, from a proposed federal action on the human environment. Per the U.S. Environmental Protection Agency (EPA), NEPA's basic policy is to ensure that all branches of government give proper consideration to the environment prior to undertaking any major federal action that significantly affects the environment.

The impacts to air quality resulting from the Proposed Project are evaluated in accordance with the guidance provided in the FAA *Aviation Emissions and Air Quality Handbook*[3]; FAA Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions,*[4] and the associated Environmental Desk Reference[5]; and FAA Order 1050.1G, *FAA National Environmental Policy Act Implementing Procedures,*[6] together with the FAA Order 1050.1 Desk Reference.[7] Air quality effects are an environmental resource category considered under these orders and guidance documents.

FAA Order 1050.1G, Appendix A, Exhibit A-1, defines the significance threshold for air quality as when "[t]he action would cause pollutant concentrations to exceed one or more of the National Ambient Air Quality Standards (NAAQS), as established by the EPA under the CAA, for any of the time period analyzed, or to increase the frequency or severity of any such existing violations." FAA guidance indicates that air quality analyses should focus on criteria air pollutants regulated under the CAA.

The CAA requires the establishment of the NAAQS, which are periodically reviewed and revised as necessary to protect public health and welfare from the effects of air pollution. Current federal standards have been established for seven criteria pollutants: sulfur dioxide (SO2), carbon monoxide (CO), nitrogen dioxide (NO2), ozone (O3), particulate matter less than 10 micrometers in aerodynamic diameter (PM10), particulate matter less than 2.5 micrometers in aerodynamic diameter (PM2.5), and lead (Pb).[8] Specific geographic areas are classified as attainment, nonattainment, or maintenance areas for each pollutant based on a comparison of ambient concentrations with the applicable NAAQS. Nonattainment areas are those whose ambient design value concentrations for a particular pollutant and averaging period exceed the applicable standard. Areas designated attainment have ambient design value concentrations below the NAAQS, while maintenance areas

[3] FAA. 2024. *Aviation Emissions and Air Quality Handbook*. July.
[4] FAA. 2006. Order 5050.4B *NEPA Implementing Instructions for Airport Actions*. Available at: https://www.faa.gov/airports/resources/publications/orders/environmental_5050_4. Accessed June 2026.
[5] FAA. 2007. Environmental Desk Reference for Airport Actions. Available at: https://www.faa.gov/sites/faa.gov/files/airports/environmental/environmental_desk_ref/desk-ref.pdf. Accessed June 2026.
[6] FAA. 2025. FAA Order 1050.1G, *FAA National Environmental Policy Act Implementing Procedures*. Available at: https://www.faa.gov/documentLibrary/media/Order/FAA_Order_1050.1G.pdf. Accessed: June 2026
[7] FAA. 2025. FAA Order 1050.1 *Desk Reference.* Available at https://www.faa.gov/about/office_org/headquarters_offices/apl/environ_policy_guidance/policy/faa_nepa_order/desk_ref. Accessed June 2026.
[8] EPA. *NAAQS Table*. Available at https://www.epa.gov/criteria-air-pollutants/naaqs-table. Accessed June 2026.

are geographic areas that were formerly designated nonattainment but have subsequently attained the standards and must continue to demonstrate maintenance of the NAAQS. Nonattainment areas are required to develop State Implementation Plans (SIPs), which establish strategies for bringing an area into compliance with the standards and maintaining those standards over time.

The Proposed Project is located in Dallas and Tarrant Counties, which are part of the Dallas-Fort Worth ozone nonattainment area. The area is currently designated nonattainment for both the 2008 and 2015 8-hour ozone standards. A summary of the applicable attainment classifications is provided below:[9]

- Attainment or Unclassified: CO (1-hour, 8-hour), NO_2 (1-hour, annual), SO_2 (1-hour, 3-hour), PM_{10} (24-hour), $PM_{2.5}$ (24-hour, annual), and Pb (rolling 3-month average);
- Nonattainment: Ozone (2008 8-hour, Severe) and Ozone (2015 8-hour, Serious).

As discussed above, the Dallas-Fort Worth area's nonattainment designations are limited to ozone. Ozone is a secondary pollutant formed through photochemical reactions involving nitrogen oxides (NOx) and volatile organic compounds (VOCs) in the presence of sunlight. Because ozone formation occurs over a broad geographic area, ozone impacts are regional in nature and cannot be directly evaluated using localized dispersion modeling techniques. Explicit evaluation of ozone concentrations would require the application of a regional photochemical model that accounts for emissions throughout the nonattainment area. Accordingly, the potential effects of the Proposed Project on ozone are typically evaluated based on estimated NOx and VOC emissions. Construction emissions and any net changes in operational emissions associated with the Proposed Project and No Action Alternative would therefore be quantified to evaluate their potential contribution to regional ozone formation.

[9] EPA. 2026. *Green Book*. *Texas Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants*. Dallas-Fort Worth. Available Online: https://www3.epa.gov/airquality/greenbook/anayo_tx.html. Accessed: June 2026.

2. Methodology

The following sections describe the modeling methodology for the air quality analysis of the Existing Conditions, future No Action Alternative, and future Proposed Action Alternative. The methodology used in this air quality analysis is consistent with FAA Order 1050.1G and the FAA Environmental Desk Reference. The analysis follows the FAA's recommended process for evaluating air quality impacts by (1) determining the need for an air quality assessment; (2) selecting the appropriate assessment methodologies; and (3) conducting the assessment and evaluating the impacts of the Proposed Action Alternative relative to the No Action Alternative and applicable CAA requirements.

2.1 Need for Assessment

Consistent with FAA Order 1050.1G and the FAA Environmental Desk Reference, the need for an air quality assessment was established by defining the Proposed Action and associated federal action, determining that construction and operation of the Proposed Action could result in reasonably foreseeable changes in CAP emissions, and identifying the attainment status of the project area and pollutants for which the area is designated nonattainment or maintenance, as described in **Section 1.2**. Because implementation of the No Action and Proposed Action Alternatives would result in different construction and operational emissions profiles, a detailed air quality assessment was conducted to evaluate the potential air quality impacts associated with each alternative, as described in the following sections.

2.2 Assessment Methodology

Consistent with FAA Order 1050.1G and the FAA Aviation Emissions and Air Quality Handbook, several methodologies were considered for evaluating the air quality impacts of the Proposed Action Alternative. Based on the characteristics of the project, the pollutants of concern, and the applicable CAA requirements, quantitative construction and operational emissions inventories were selected to evaluate CAP emissions. Other assessment methodologies were evaluated but determined to be unnecessary or not applicable for this project.

<u>Selected Analysis Methods</u>

- Construction Emissions Inventory – A construction emissions inventory was prepared to quantify CAP emissions and precursor pollutants associated with construction activities. The methodology used for the construction emissions inventory is described in **Section 2.4.1**.
- Operational Emissions Inventory – An operational emissions inventory was prepared to quantify CAP emissions and precursor pollutants associated with airport operations. The methodology used for the operational emissions inventory is described in **Section 2.4.2**.

<u>Analysis Methods Not Selected</u>

- Qualitative Assessment – A qualitative assessment is generally appropriate when a Federal Action is not expected to result in reasonably foreseeable increases in air emissions. Because implementation of

the Proposed Action could result in changes in both construction and operational emissions, quantitative emissions inventories were prepared.

- Atmospheric Dispersion Modeling – Dispersion modeling may be used to further evaluate localized air quality impacts by characterizing the spatial and temporal distribution of emissions. Dispersion modeling was not performed because the pollutant of concern for the project area is ozone, which is evaluated indirectly through quantification of its precursor pollutants, NOx and VOCs.

- Roadway Hot-Spot Analysis – Roadway hot-spot analyses are used to evaluate localized impacts associated with motor vehicle emissions. A roadway hot-spot analysis was not performed because the Proposed Action is not expected to result in substantial increases in roadway traffic and no project-related concerns were identified for CO, particulate matter PM_{10}, or $PM_{2.5}$.

- Hazardous Air Pollutant Emissions Inventory – A hazardous air pollutant (HAP) emissions inventory was not prepared because operational HAP emission increases associated with the Proposed Action are expected to be small.

2.3 Scenarios Evaluated

2.3.1 Construction Scenarios Evaluated

The HMMH Team evaluated CAP emissions associated with construction of the Proposed Project. Construction activities would take place between 2024 and 2032. Emissions during construction depend on the activity levels of heavy-duty nonroad equipment, haul truck trips, and vehicle trips made by construction workers and vendors traveling to and from the Proposed Project site. Construction scenarios evaluated in this analysis include projects associated with both the Original CTA Expansion Project and the Terminal F design modifications. The annual construction schedule for the CTA Expansion Project and Terminal F design modifications is summarized in **Table 2-1**.

Table 2-1. CTA Expansion Project and Terminal F Design Modifications

Project	Activity Description	Start Date	End Date
CTA Expansion	Batch Plant	2024	2028
CTA Expansion	Good/Services Dock	2024	2026
CTA Expansion	Terminal A	2024	2027
CTA Expansion	Terminal C	2024	2028
CTA Expansion	Terminal C Garage	2024	2028
CTA Expansion	Terminal E	2024	2026
CTA Expansion	Terminal F	2024	2026
CTA Expansion	Tunnels	2024	2025
Terminal F Design Modifications	Terminal F Concourse and Skylink Station	2025	2028
Terminal F Design Modifications	Terminal F Phase 1A - Node 1 and Node 2	2026	2029
Terminal F Design Modifications	Skylink Structural Enhancement	2026	2029
Terminal F Design Modifications	Garage	2026	2031
Terminal F Design Modifications	Processor	2026	2031
Terminal F Design Modifications	Roadways	2026	2031
Terminal F Design Modifications	Terminal F Phase 2 Infield Paving	2026	2032
Terminal F Design Modifications	Terminal F Baggage Handling System	2027	2031

2.3.2 Operational Scenarios Evaluated

The Proposed Project would result in operational emission increases from two primary sources: (1) aircraft operations, as the terminal upgrades will facilitate increased aircraft traffic and associated GSE; and (2) on-road vehicles, as increased passenger activity would generate additional trips to, from, and within the airport. This analysis evaluated the incremental operational emission increases that are estimated to occur because of the Proposed Project.

2.4 Emission Inventory Development

This section describes the methodology used to develop construction and operational emissions inventories for the No Action and Proposed Action Alternatives. The analysis evaluates CAPs and precursor pollutants associated with construction and operational activities. For this analysis, the following pollutants were considered:

- Ozone precursors: VOCs and NOx
- CAPs: CO, SO_2, PM_{10}, $PM_{2.5}$, and Pb

To estimate emissions from the Proposed Project, the HMMH Team directly or indirectly relied primarily on emissions estimation guidance from government-sponsored organizations, project-specific studies (e.g., design documents), and emission estimation software.

2.4.1 Construction Emissions Inventory

This section describes the methodology used to estimate emissions associated with construction of the Proposed Project. Construction-related emissions were quantified for all phases of construction and include emissions associated with on-road mobile sources and off-road construction equipment. Emission factors and methodologies used to estimate these emissions are described below.

On-road mobile source emissions associated with construction of the Proposed Project are evaluated using emission factors developed with the EPA's MOtor Vehicle Emission Simulator (MOVES) model.[10] The analysis utilized MOVES5, which is the EPA's current official emissions model for estimating emissions from on-road motor vehicles for regulatory applications outside of California. The EPA officially released MOVES5 in December 2024 and identified it as the latest state-of-the-science emissions modeling platform for use in SIPs, transportation conformity determinations, general conformity evaluations, and other regulatory analyses.[11]

Off-road equipment emissions for each construction year are evaluated using emission factors developed with the Texas Commission on Environmental Quality (TCEQ) TexN tool (Version 2.6).[12] TexN2.6 was developed by Eastern Research Group Inc. (ERG) in collaboration with TCEQ as a tool for estimating Texas-specific emissions from nonroad mobile sources. TexN2.6 uses EPA's Nonroad model to calculate emissions, as previously required

[10] EPA. 2026. "Latest Version of MOtor Vehicle Emission Simulator (MOVES)." Office of Transportation and Air Quality. Last updated April 3. https://www.epa.gov/moves/latest-version-motor-vehicle-emission-simulator-moves

[11] EPA. 2024. *MOVES5 Policy Guidance: Use of MOVES for State Implementation Plan Development, Transportation Conformity, General Conformity, and Other Purposes*. EPA-420-B-24-038. Office of Transportation and Air Quality. https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P101CTLB.pdf

[12] TCEQ. 2026. *TEXN2.6 User Guide.* https://amdaftp.tceq.texas.gov/pub/EI/nonroad/TexN2/texn2-v2.6.0-user-guide-20250627.pdf

by the EPA for developing emission estimates for SIP revisions, national emission inventories, and reasonable further progress (RFP) analyses.

Detailed construction activity data and emission rates for nonroad, on-road, and fugitive emissions for the DFW CTA Expansion project associated with the original CTA EA are found in **Appendix A**. Detailed construction activity data and emission rates for nonroad, on-road, and fugitive emissions for the DFW Terminal F design modifications associated with this Supplemental EA are found in **Appendix B**.

2.4.1.1 On-Road Vehicles

For on-road construction vehicles, MOVES5 runs were conducted for Dallas County[13] at the county scale for all construction years. The county-level MOVES input was obtained from the North Central Texas Council of Governments (NCTCOG). This database was developed by NCTCOG in 2026 for the latest regional transportation conformity analysis supporting the Regional Transportation Plan (RTP) and Transportation Improvement Program (TIP) and includes locally representative inputs for vehicle activity, fleet characteristics, inspection and maintenance (I/M) programs, meteorology, fuel parameters, and other county-specific MOVES inputs. Utilizing the NCTCOG-developed MOVES county input database ensures consistency with the most recent regional conformity analysis assumptions, methodologies, and travel demand forecasting inputs used within the North Central Texas nonattainment and maintenance areas.

Inputs including average speed distributions, source type population, and I/M program parameters from the NCTCOG county databases were mapped to each construction analysis year, as appropriate. Vehicle age distribution inputs were refined for the specific project analysis years. The NCTCOG 2026 vehicle age distribution inputs were adjusted to 2027 through 2032 conditions using EPA's MOVES Age Distribution Projection Tool for MOVES5.

Because the NCTCOG regional transportation conformity analysis was conducted using July meteorological conditions only, the county-level input databases do not contain seasonally representative meteorological data for other periods of the year. Therefore, default meteorological data available within MOVES5 for Dallas County were utilized for this analysis. In addition, default fuel parameters provided within MOVES5 for the applicable analysis years and geographic area were also used. Fuel characteristics within MOVES5 vary by month to reflect seasonal fuel formulations and changes in fuel properties throughout the year. Use of the MOVES5 default meteorology and fuel data is appropriate for this analysis and is consistent with EPA guidance when locally developed inputs are either unavailable or not necessary for the level and purpose of the evaluation being conducted. **Table 2-2** lists the MOVES county-scale input database sources and how the data were applied across construction years.

Table 2-2. MOVES County Scale Input Database Sources

MOVES County Scale Inputs	Data Source(s)	Years
Source Type Distribution	NCTCOG	NCTCOG 2026 input data applied to 2026 through 2032 conditions.
Age Distribution	NCTCOG	NCTCOG 2026 input data applied to 2026 conditions and adjusted to 2027 through 2032 conditions. Adjustments are applied using the EPA's Age Distribution Projection Tool for MOVES5 for construction years 2027 through 2032.
Average Speed Distribution	NCTCOG	NCTCOG 2026 input data applied to 2026 through 2032 conditions.

[13] DFW is located in Dallas and Tarrant counties. In the case where the project spans multiple counties, the county of the greatest populace should be used based on the ACRP Report 102 guidance. Dallas County population is greater than Tarrant County; therefore, MOVES5 was run for Dallas County.

MOVES County Scale Inputs	Data Source(s)	Years
Fuel	MOVES Default for Dallas County, TX	MOVES Default for Dallas County, TX
Vehicle Type VMT	NCTCOG	NCTCOG 2026 input data applied to 2026 through 2032 conditions. Applied NCTCOG vehicle-type VMT inputs to the closest MOVES analysis year. Because MOVES was used to generate source-type-specific emission rates in grams per mile, the VMT totals were used only to preserve vehicle mix and were not year-adjusted.
Road Type Distribution	NCTCOG	NCTCOG 2026 input data applied to 2026 through 2032 conditions.
Meteorology Data	MOVES Default for Dallas County, TX	MOVES Default for Dallas County, TX

Emissions and activity were exported from the MOVES5 Output Database by vehicle type, fuel type, urban road type, and process for each applicable calendar year. Consistent with the methodology used in the original CTA Expansion Project EA, emissions were aggregated over six emission process types to facilitate application of emission factors to project-specific activity data for development of Proposed Project emissions. **Table 2-3** lists the MOVES5 emission process types, aggregate groupings, road types, and activity surrogates utilized in the analysis. Emission factors were estimated for each aggregate grouping by dividing MOVES5 output emissions by the corresponding MOVES5 output activity data.

Table 2-3. MOVES Process Grouping and Activity Surrogates

MOVES5 Emission Process[8]	Aggregate Grouping	Road Type[9]	Activity Surrogate Description	Activity Surrogate Metric
Crankcase Running Exhaust	RPD [2]	Urban Unrestricted Access	Distance	Miles
Running Exhaust	RPD [2]	Urban Unrestricted Access	Distance	Miles
Brake Wear	RPD_WEAR [3]	Urban Unrestricted Access	Distance	Miles
Tire Wear	RPD_WEAR [3]	Urban Unrestricted Access	Distance	Miles
Evaporation Fuel Leaks	RPD_EVAP [4]	Urban Unrestricted Access	Distance	Miles
Evaporation Fuel Vapor Venting	RPD_EVAP [4]	Urban Unrestricted Access	Distance	Miles
Evaporation Permeation	RPD_EVAP [4]	Urban Unrestricted Access	Distance	Miles
Crankcase Start Exhaust	RPV_START [5]	Off-Network	Starts	One-Way Trips[1]
Start Exhaust	RPV_START [5]	Off-Network	Starts	One-Way Trips[1]
Evaporation Fuel Vapor Venting	DIURNAL [6]	Off-Network	Vehicle Population	Vehicle-days
Evaporation Fuel Leaks	RPV_EVAP [7]	Off-Network	Vehicle Population	Vehicle-days
Evaporation Permeation	RPV_EVAP [7]	Off-Network	Vehicle Population	Vehicle-days

Notes:
[1] For on-road emission factors, one-way trips are assumed equal to number of starts
[2] RPD: rate per distance for exhaust processes
[3] RPD_WEAR: rate per distance for brake wear and tire wear processes
[4] RPD_EVAP: rate per distance for evaporative processes
[5] RPV_START: rate per vehicle for start processes
[6] DIURNAL: (rate per vehicle for) diurnal processes
[7] RPV_EVAP: rate per vehicle for evaporative processes
[8] For on-road emission processes, engineering judgement was used to aggregate MOVES processes into emission groups listed above.
[9] DFW assumes all on-road activity will occur on urban unrestricted access roads, all off-road activity is assumed to occur off network.

Consistent with the original CTA Expansion Project EA, Urban Unrestricted Access is assumed to be the representative road type to calculate RPD, RPD_Wear, and RPD_Evap emission factors. Off-Network is assumed to be the representative road type to calculate RPV_Start, RPV_Evap, and DIURNAL emission factors. All rate per distance emission factors were calculated in grams per mile; all start exhaust emission factors were calculated in grams per one-way trip, and all off-network evaporative process emission factors were calculated in grams per vehicle-day. Emissions were then estimated as the product of applicable Proposed Project annual activity and MOVES5-based emission factors according to the equation below.

$$E_i = \text{Activity} \times EF_i / 907185$$

where:

E_i = Emissions of pollutant *i* (short tons per year)
Activity = applicable annual activity (i.e., miles per year, starts per year, or number of vehicles per year)
EF_i = emission factor of pollutant *i* (grams per activity)
907185 = unit conversion from grams to short tons (grams per short ton)

2.4.1.2 Construction Equipment

Construction equipment activity estimates (annual operating hours and rated horsepower by equipment type) for all construction components modeled in the original CTA Expansion Project EA were utilized in this analysis. Additionally, construction equipment activity estimates for all construction components associated with the Proposed Project were derived from the Airport Cooperative Research Board's (ACRP) Airport Construction Emissions Inventory Tool (ACEIT)[14] utilizing construction component data (size, cost, construction start and end dates) provided by DFW.[15] Construction equipment activity were estimated based on ACEIT with adjustments to reflect project-specific considerations. ACEIT generates construction equipment activity based on high-level project inputs such as project capital costs and project size by phase. ACEIT construction equipment activity is differentiated by equipment type and is assumed to be carried out by a predominantly diesel-fueled equipment fleet. Equipment types primarily assumed to be included in construction of the Proposed Project are listed below:

- Backhoes
- Cranes
- Excavators
- Forklifts
- Fuel and Dump Trucks
- Loaders
- Off-Highway Truck
- Pavers
- Rollers

Construction equipment emissions were estimated by the following formula:

$$E_i = N \times HP \times LF \times \text{Activity} \times EF_i / 907185$$

[14] ACRP. 2014. *Guidance for Estimating Airport Construction Emissions*. ACRP Report 102. Transportation Research Board, Washington, DC. https://doi.org/10.17226/22437
[15] Construction schedule, costs, and the size for each project element were provided to HMMH by DFW.

where:

E_i = Emissions of pollutant i (short tons per year)
N = number of units (pieces of equipment)
HP = average rated horsepower (horsepower)
LF = equipment load factor (unitless)
Activity = activity (hours per year)
EF_i = emission factor of pollutant i (grams per brake horsepower-hour)
907185 = unit conversion from grams to short tons (grams per short ton)

2.4.1.3 Fugitive Emissions

Fugitive emissions for all fugitive source types were obtained from ACEIT. Construction components modeled as part of the Supplemental EA are quantified using the same ACEIT outputs as reported in the previous EA. Fugitive emissions for all source types associated with the construction of components included in the Proposed Project were derived from ACEIT using DFW-provided data.[15] ACEIT applies EPA AP-42 guidance document methodology to estimate fugitive emissions. ACEIT emission estimation methodology, emission factors, and ancillary factors were reviewed, and the HMMH team made project-specific adjustments as necessary to develop fugitive emissions as described in **Table 2-4.** The ratio of $PM_{2.5}$ to PM_{10} for fugitive emissions, which were utilized in the original CTA Expansion Project EA and used in this analysis, are provided in **Table 2-5** by construction activity.

Table 2-4. Fugitive Emissions Estimation Methodology and Project Specific Adjustments

Fugitive Source	Methodology	Project-specific Input Adjustments
Concrete Mixing/ Batching	AP-42 11.12	Emission inputs unchanged from ACEIT output.
Soil Handling	AP-42 13.2.4	Emission inputs unchanged from ACEIT output.
Unstabilized Land and Wind Erosion	AP-42 11.9	Emission inputs unchanged from ACEIT output.
Asphalt Drying	AP-42 4.5	Emission inputs unchanged from ACEIT output.
Asphalt Storage and Batching	Mobile emission estimates are included; stationary source emissions are covered under TCEQ permits and therefore not included herein.	Not estimated (assumed to occur offsite)
Material Movements (Paved Roads)	AP-42 13.2.1	ACEIT default vehicle miles traveled (VMT) scaled to Proposed Project square footage for building and site work project types.
Material Movement (Unpaved Roads)	AP-42 13.2.2	ACEIT default VMT scaled to Proposed Project square footage for building and site work project types.

Table 2-5. Fugitives $PM_{2.5}$ to PM_{10} Emission Ratios

Construction Activity	$PM_{2.5}/PM_{10}$	Source
Asphalt Drying	-	No PM Emissions
Asphalt Storage and Batching	0.06	AP-42 11.1-2
Concrete Mixing/ Batching	0.15	AP-42 11.12
Material Movement (Paved Roads)	0.25	AP-42 13.2.1-1
Material Movement (Unpaved Roads)	0.1	AP-42 13.2.2-2
Soil Handling	0.15	AP-42 13.2.4
Unstabilized Land and Wind Erosion	0.15	AP-42 13.2.5

2.4.2 Operational Emissions Inventory

This section provides a description of the methodology for estimating emissions from project operations. The sources of operation-related emissions include ground access vehicles and aircraft and associated airport GSE and APUs. Emissions resulting from the operational activities under the Existing Conditions, Proposed Action Alternative, and No Action Alternative were estimated.

Detailed operational on-road activity data and emission rates are found in **Appendix C**.

2.4.2.1 Ground Access Vehicles

On-road mobile source emissions associated with airport operations were evaluated using emission factors developed with EPA's MOVES5 model. County-scale MOVES5 runs were conducted for Dallas County using county-level input databases developed by the NCTCOG for the latest regional transportation conformity analysis supporting the RTP and TIP. These databases include locally representative inputs for vehicle activity, fleet characteristics, I/M programs, meteorology, fuel parameters, and other county-specific MOVES inputs. Details regarding these common inputs are provided in **Table 2-2** and **Table 2-3** in **Section 2.4.1.1**.

Operational emission factors were developed for the 2024 Existing Conditions and future analysis years 2031 and 2036. The 2026 and 2035 NCTCOG MOVES input databases were used to represent the future analysis years and ensure consistency with the latest regional conformity assumptions and travel demand forecasting inputs used within the North Central Texas nonattainment and maintenance areas. For the 2024 Existing Conditions analysis, vehicle age distribution inputs were obtained from the Texas Technical Working Group for Mobile Source Emissions MOVES Input Data Dashboard, developed by the Texas A&M Transportation Institute (TTI) and sponsored by TCEQ. Vehicle age distributions were adjusted to the specific analysis years using EPA's MOVES Age Distribution Projection Tool for MOVES5. Specifically, the 2026 NCTCOG age distributions were projected to represent 2031 conditions, while the 2035 NCTCOG age distributions were projected to represent 2036 conditions.

The analysis for this Supplemental EA utilizes the same overall vehicle fleet mix methodology that was applied in the previous original CTA Expansion Project EA. The fleet mix was developed to account for the various types of ground transportation activity occurring at the airport and to appropriately map airport ground access mode categories to representative MOVES source types. **Table 2-6** summarizes the fleet mix assumptions and associated MOVES source type assignments used in the analysis.

For passenger-oriented mode categories such as passenger drop-off/pick-up activity, terminal parking, valet parking, taxis, limousines, and transportation network company (TNC) services (e.g., Uber and Lyft), MOVES source types "Passenger Car" and "Passenger Truck" are used to represent the mix of passenger vehicles and sport utility vehicles operating at the airport. Shuttle-related activities, including hotel shuttles, shared ride shuttles, remote parking shuttles, employee parking shuttles, and rental car shuttle operations, will be represented using the MOVES "Other Buses" source type. Utility and airport support vehicle activity categorized as Utility Vehicles/Pass Thru cars will be represented using the MOVES "Light Commercial Truck" source type.

For mode categories represented by multiple MOVES source types, the relative distribution between source types will be based on the corresponding vehicle miles traveled (VMT) distributions contained within the NCTCOG regional conformity MOVES activity output databases. Specifically, the split between applicable MOVES source types will be determined by reviewing the VMT distributions by source type contained in the NCTCOG MOVES activity output and applying those proportions to the applicable airport ground transportation mode categories. This approach is consistent with the methodology utilized in the original CTA Expansion Project EA and ensures that the analysis reflects locally representative fleet characteristics consistent with the regional transportation conformity analysis.

Table 2-6. DFW CTA Supplemental EA On-Road Fleet Mix

Mode Category	Fleet Mix	Vehicle Type	MOVES Source Type 1	MOVES Source Type 2
Drop off/Pickup	39.3%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Hotel Shuttle	1.4%	Shuttle	Other Buses	--
Limo	1.1%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Other	1.3%	Utility Vehicles/Pass Thru cars	Light Commercial Truck	--
Parked Express	0.6%	Shuttles	Other Buses	--
Parked Offsite	0.9%	Shuttles	Other Buses	--
Parked Remote	0.4%	Bus	Other Buses	--
Parked Terminal	17.4%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Parked Valet	3.6%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Rental Car	0.8%	Bus	Other Buses	--
Shared Ride Shuttle	0.5%	Shuttle	Other Buses	--
Taxi	2.9%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Uber/Lyft	29.7%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Employee Parking	0.2%	Bus	Other Buses	--
Total	100.0%	--	--	--

The VMT associated with each alternative was developed to be consistent with the methodology utilized in the original CTA Expansion Project EA. Passenger operations were estimated by summing calendar year Air Carrier passenger operations and Air Taxi passenger operations for each alternative. Utilizing the DFW Operations Memo,[16] which provided annual passenger operations and total enplanement data, a passenger-per-operation factor was developed to estimate total passenger activity for each alternative. Based on the operational and enplanement data provided in the memorandum, approximately 120 passengers per passenger operation were estimated.

Consistent with the methodology applied in the original CTA Expansion Project EA, total passenger counts for each alternative and analysis year were multiplied by 30 percent to estimate associated vehicle trips generated by airport passenger activity. A one-way trip distance assumption of 27 miles, which was also utilized in the

[16] DFW Operation Memo, April 1, 2026

original CTA Expansion Project EA, was then applied to estimate total VMT associated with airport ground access activity for each alternative. **Table 2-7** lists the vehicles trips and VMT based on passenger operations and total passengers for each alternative.

To estimate on-road mobile source emissions, the total VMT are distributed across the applicable fleet mix categories presented in **Table 2-6.** The corresponding MOVES5 emission factors for each applicable source type were applied to the associated VMT to estimate total on-road operational emissions for each alternative.

Table 2-7. DFW CTA Supplemental EA Operational On-Road VMT

Alternative	Operations (Calendar Year)	Passenger Operations (Calendar Year)	Total Passengers	Vehicle Trips	VMT
2024 Existing Conditions	743,203	716,408	86,041,969	25,812,591	696,939,957
2031 No Action	823,078	785,086	93,501,413	28,050,424	757,361,448
2031 Proposed Action	893,512	855,654	101,905,853	30,571,756	825,437,412
2036 No Action	833,463	795,549	95,665,289	28,699,587	774,888,849
2036 Proposed Action	965,603	926,632	111,428,105	33,428,432	902,567,664

2.4.2.2 Aircraft

This section provides a description of aircraft operations at DFW used for the development of existing and future emission inventories. The modeled operational data for the Existing Conditions and Future Alternatives is based on the calendar year as required for reporting. The operational emissions data was prepared using existing and forecast operational data for DFW and the Aviation Environmental Design Tool (AEDT) Version 4a in compliance with FAA Order 1050.1G and FAA Order 5050.4B. Aircraft operational emissions estimated for this analysis include CAP emissions below the AEDT default 3,000 feet mixing and include:

- Start up
- Taxi Out
- Climb below the mixing height
- Descend below the mixing height
- Taxi In
- GSE for landing and takeoff
- APUs

2.4.2.2.1 Aviation Environmental Design Tool

The aircraft emissions analysis for this Supplemental EA uses AEDT Version 4a (released January 28, 2026).[17] All AEDT modeling conducted for this study adheres to *Guidance on Using the AEDT to Conduct Environmental modeling for FAA Actions Subject to NEPA.*[18] AEDT is a combined noise and emission model that uses a database of aircraft noise and performance characteristics. AEDT calculates air pollutant emissions from aircraft engines for air quality analyses, enables noise and air quality calculations on a regional basis (as opposed to in the immediate airport environment only), and includes updated databases for newer aircraft models.

[17] FAA. 2026. *Aviation Environmental Design Tool, Version 4a*. Office of Environment and Energy, Washington, D.C.
[18] FAA. 2017. *Guidance on Using the AEDT to Conduct Environmental Modeling for FAA Actions Subject to NEPA*. Office of Environment and Energy, Washington, D.C.

The primary data input categories for the AEDT are:

- **Airfield layout**, which includes the coordinates of each runway centerline endpoint, runway widths, approach threshold crossing heights, and runway end elevations.
- **Meteorological data**, which refers to weather conditions affecting sound propagation and aircraft performance. AEDT's database of airports was accessed to obtain annual average daily DFW weather conditions. AEDT's airport database contains 10-year average meteorological data (from 2015 through 2024), which AEDT uses to adjust aircraft performance and sound propagation parameters from standard day conditions.
    - Temperature: 67.3° F
    - Station Pressure: 994.44 mbar
    - Sea Level Pressure: 1015.52 mbar
    - Dew point: 53.4° F
    - Relative humidity: 61.14%
    - Wind Speed: 9.22 knots
- **Terrain data**, which refers to ground elevations. AEDT uses terrain data to adjust the aircraft-to-ground path length, which is the distance between the modeled location on the ground and the aircraft in flight, making the ground closer to or farther from the aircraft relative to flat-earth conditions. AEDT does not use terrain data to account for shielding or reflective effects of terrain.
- Specific aircraft types in DFW's **fleet mix, defined by airframe and engine type combinations**. All aircraft types evaluated for the DFW modeling are either in the AEDT database or have approved substitutions within the model.
- **Aircraft flight operations**, which are numbers of AAD aircraft operations by day-night average sound level (DNL) time periods and by aircraft type. Daytime is defined as 7:00 a.m. to 9:59 p.m. and nighttime is defined as 10:00 p.m. to 6:59 a.m. Departures and arrivals were the two types of flight operations modeled for the EA. Touch-and-go or circuit operations are not conducted at DFW.
- **Aircraft noise and performance characteristics**. The AEDT database contains noise and performance data for more than 300 different fixed-wing aircraft types. AEDT accesses the noise and performance data for takeoff, landing, and pattern operations by those aircraft. The database provides single-event noise levels for slant distances from 200 feet to 25,000 feet for several thrust or power settings for each aircraft type. Performance data includes thrust, speed, and altitude profiles for takeoffs and landings. For those aircraft types operating at DFW which are not directly represented in the AEDT database, the AEDT contains FAA-approved substitutions for noise modeling.
- **Stage length**, which is a surrogate for an aircraft's weight that varies according to its fuel load. Stage length is assigned according to each departure's trip distance to its destination, using city-pair information from the Noise and Operations Monitoring System (NOMS) data and calculating the great-circle distance from DFW to the indicated destination airport. The assigned stage length then determines the appropriate flight performance profile from the AEDT database.
- **Flight profiles**, which are based on standard flight procedures for each aircraft type contained in the AEDT database. Information in the flight profiles describe the sequence of altitudes, thrust/power settings, and airspeeds for departure and arrival operations.

- **Runway use**, which is the allocation of flight operations to each runway, on an AAD basis, by DNL time periods, operation type, and aircraft type.
- **Flight tracks and their usage**. A flight track is the two-dimensional projection of the aircraft's three-dimensional flight path onto the ground. A modeled flight track represents one or more actual flight tracks. Modeled flight tracks for a given flight corridor typically consist of a backbone track and sub-tracks which represent the average location and dispersion of the actual flights in the corridor. Each backbone flight track typically represents a general heading for departures or originating point for arrivals. As each runway usually has multiple headings and originating points, the distribution of operations, or track use, on an AAD basis, must be specified. Operations are further spread across backbone tracks and sub-tracks via statistical distribution percentages.

2.4.2.2.2 Existing Conditions

Data from DFW's NOMS and from the FAA's Operations Network (OPSNET) form the basis of the Existing Conditions air quality model inputs. The NOMS data provided the aircraft fleet mix and runway use. The operations were grouped into FAA operational categories (Air Carrier, Air Taxi, General Aviation, and Military) and the totals were scaled to match the annual OPSNET counts. The commercial categories (air carrier and air taxi) were separated to display both passenger and cargo operations as shown in **Table 2-8.** The total operations count for 2024 was 743,203. **Table 2-8** presents the annual operations modeled for the Existing Conditions.

Table 2-8. Existing Conditions (2024) Operations

Time frame	Air Carrier Passenger	Air Carrier Cargo	Air Taxi Passenger	Air Taxi Cargo	General Aviation	Military	Total
Full Year	705,825	16,573	10,580	4,290	5,724	211	743,203
Average Annual Day	1,928.5	45.3	28.9	11.7	15.6	0.6	2,030.6

Note: 2024 was a leap year, therefore the AAD was determined by dividing by 366 days
Sources: DFW NOMS, FAA OPSNET, FAA TAF, HMMH analysis

Table 2-9 provides the average annual daily operations by aircraft type that were used in AEDT to model the Existing Conditions. The average daily number of aircraft arrivals and departures for 2024 are calculated by dividing the total annual operations by 366 (days in the year). The Existing Conditions average annual day includes 2,030.6 total operations, 11.8 percent of which occurred during the DNL nighttime hours of 10:00 p.m. to 6:59 a.m.

Table 2-9. DFW Modeled Average Daily Aircraft Operations for Existing Conditions (2024)

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Carrier Cargo	Jet	A306	2.5	0.2	2.3	0.4	5.4
Air Carrier Cargo	Jet	B744	0.8	0.4	0.8	0.4	2.5
Air Carrier Cargo	Jet	B748	0.9	0.7	1.0	0.6	3.2
Air Carrier Cargo	Jet	B752	2.0	0.2	1.9	0.3	4.4
Air Carrier Cargo	Jet	B763	5.5	2.5	4.3	3.8	16.1
Air Carrier Cargo	Jet	B77L	1.8	1.1	1.1	1.8	5.7
Air Carrier Cargo	Jet	MD11	2.1	1.9	2.5	1.5	8.0
Air Carrier Passenger	Jet	A20N	22.0	8.3	22.2	8.1	60.6
Air Carrier Passenger	Jet	A21N	20.3	4.8	21.8	3.3	50.1
Air Carrier Passenger	Jet	A319	65.5	6.6	65.5	6.5	144.1

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Carrier Passenger	Jet	A320	48.5	7.5	49.9	6.1	112.0
Air Carrier Passenger	Jet	A321	155.2	24.1	159.1	20.3	358.7
Air Carrier Passenger	Jet	A333	1.2	0.0	0.5	0.8	2.5
Air Carrier Passenger	Jet	A343	0.5	0.0	0.5	0.0	1.0
Air Carrier Passenger	Jet	A359	0.8	0.0	0.8	0.0	1.6
Air Carrier Passenger	Jet	A35K	2.3	0.0	1.7	0.6	4.6
Air Carrier Passenger	Jet	A388	0.9	0.0	0.8	0.0	1.8
Air Carrier Passenger	Jet	B38M	5.9	1.8	6.9	0.7	15.3
Air Carrier Passenger	Jet	B39M	1.9	0.9	2.4	0.3	5.5
Air Carrier Passenger	Jet	B737	1.7	0.5	2.2	0.0	4.4
Air Carrier Passenger	Jet	B738	200.7	26.1	206.4	20.3	453.6
Air Carrier Passenger	Jet	B739	3.2	1.9	4.4	0.7	10.3
Air Carrier Passenger	Jet	B744	0.9	0.4	0.9	0.4	2.5
Air Carrier Passenger	Jet	B748	0.1	0.3	0.2	0.1	0.6
Air Carrier Passenger	Jet	B772	5.8	0.7	6.2	0.3	13.0
Air Carrier Passenger	Jet	B77W	5.3	0.0	4.6	0.7	10.7
Air Carrier Passenger	Jet	B788	5.8	2.5	8.2	0.1	16.5
Air Carrier Passenger	Jet	B789	9.2	1.5	9.2	1.5	21.4
Air Carrier Passenger	Jet	BCS1	9.8	1.0	9.6	1.2	21.6
Air Carrier Passenger	Jet	BCS3	6.0	1.1	6.6	0.5	14.2
Air Carrier Passenger	Jet	E190	1.0	0.0	1.0	0.0	2.0
Air Carrier Passenger	Regional Jet	CRJ7	59.2	9.1	62.8	5.5	136.6
Air Carrier Passenger	Regional Jet	CRJ9	23.1	3.5	24.0	2.6	53.2
Air Carrier Passenger	Regional Jet	E170	33.3	4.5	34.4	3.5	75.8
Air Carrier Passenger	Regional Jet	E75L	152.1	15.2	153.6	13.7	334.6
Air Carrier Total	**-**	**-**	**857.5**	**129.4**	**880.3**	**106.6**	**1,973.8**
Air Taxi Cargo	Non-Jet	B190	1.0	0.0	0.7	0.3	2.1
Air Taxi Cargo	Non-Jet	BE99	0.7	0.0	0.6	0.1	1.5
Air Taxi Cargo	Non-Jet	C208	2.8	0.7	3.0	0.4	6.9
Air Taxi Cargo	Non-Jet	SF34	0.4	0.2	0.6	0.1	1.3
Air Taxi Passenger	Jet	E135	1.6	0.0	1.6	0.0	3.1
Air Taxi Passenger	Jet	E145	0.9	0.0	0.9	0.0	1.9
Air Taxi Passenger	Non-Jet	C208	5.1	0.1	5.0	0.1	10.4
Air Taxi Total	**-**	**-**	**12.5**	**1.0**	**12.5**	**1.1**	**27.1**
General Aviation	Jet	C56X	1.6	0.1	1.6	0.1	3.4
General Aviation	Jet	CL35	0.9	0.1	0.9	0.0	1.8
General Aviation	Jet	E55P	1.0	0.0	0.9	0.1	2.0
General Aviation	Jet	G280	2.0	0.1	2.1	0.1	4.3
General Aviation	Non-Jet	BE20	0.6	0.0	0.5	0.0	1.1
General Aviation	Non-Jet	C172	0.6	0.2	0.5	0.3	1.5
General Aviation	Non-Jet	PC12	0.7	0.0	0.7	0.1	1.5
General Aviation Total	**-**	**-**	**7.3**	**0.5**	**7.1**	**0.7**	**15.6**
Military	Jet	C17	0.1	0.0	0.1	0.0	0.3
Military	Jet	LJ35	0.1	<0.1	0.1	0.0	0.2
Military	Non-Jet	C30J	<0.1	0.0	<0.1	0.0	0.1
Military Total	**-**	**-**	**0.3**	**<0.1**	**0.3**	**<0.1**	**0.6**
Grand Total	**-**	**-**	**884.0**	**131.3**	**906.6**	**108.7**	**2,030.6**

Note: Totals may not match exactly due to rounding.
Sources: DFW NOMS, FAA OPSNET, FAA TAF, HMMH analysis

Within the AEDT database, aircraft departure profiles are defined by a range of trip distances identified as "stage lengths." Higher stage lengths (longer trip distances) are associated with heavier aircraft due to the increase in fuel requirements for the flight. For example, a departure aircraft with a trip distance less than 500 nautical miles (nmi) would be assigned a stage length value of one, where a departure aircraft with a trip distance of 3,000 nmi would be assigned a stage length value of five. **Table 2-10** provides the stage length classifications by their associated trip distances, and **Table 2-11** presents the modeled stage length distribution by AEDT aircraft type, developed from the NOMS data. Typically, widebody aircraft that operate on long haul routes have the highest stage lengths. Many smaller aircraft have only a "stage length 1" profile defined in the AEDT database. For some aircraft types, AEDT uses an "M" stage length designation to indicate the maximum weight departure profile defined for that aircraft.

Table 2-10. AEDT Stage Length Categories

Category	Stage Length (nmi)
1	0-500
2	500-1000
3	1000-1500
4	1500-2500
5	2500-3500
6	3500-4500
7	4500-5500
8	5500-6500
9	6500+

Source: FAA's AEDT 4a User Manual

AEDT includes standard flight procedure data for each aircraft that represents each phase of flight to or from the airport. Information related to aircraft speed, altitude, thrust settings, flap settings, and distance is available and used by AEDT to calculate aircraft emissions. Standard aircraft departure profiles are supplied from the runway (field elevation) up to 10,000 feet above ground level (AGL). Aircraft arrival profiles are supplied from 6,000 feet AGL down to the runway including the application of reverse thrust and rollout. The FAA requires that these standard arrival and departure profiles be used unless there is evidence that they are not applicable. The emissions inventory presented in this document used AEDT to estimate aircraft landing and takeoff cycle emissions below the atmospheric mixing height. The 3,000-foot aircraft emissions cutoff is consistent with the applicable Texas SIP airport emissions inventory documentation[19], which used the default AEDT mixing height of 3,000 feet and considered only landing and takeoff emissions below that mixing height.

Table 2-11. Existing Conditions - Modeled Departure Stage Length Distribution by Aircraft Type

Propulsion	Aircraft Type	SL1	SL2	SL3	SL4	SL5	SL6	SL7	SL8	SL9
Jet	A20N	7%	65%	25%	4%	-	-	-	-	-
Jet	A21N	5%	53%	39%	1%	2%	-	-	-	-
Jet	A306	20%	56%	24%	-	-	-	-	-	-
Jet	A319	28%	49%	22%	1%	-	-	-	-	-
Jet	A320	19%	53%	28%	-	-	-	-	-	-
Jet	A321	6%	60%	33%	1%	-	-	-	-	-
Jet	A333	-	-	-	-	-	100%	-	-	-
Jet	A343	-	-	-	-	-	100%	-	-	-
Jet	A359	-	-	-	-	-	-	100%	-	-

[19] Texas A&M Transportation Institute (TTI), Appendix 11: 2020 Texas Statewide Airport Emissions Inventory and 2011 through 2050 Trend Inventories, 2021, Available at https://www.tceq.texas.gov/downloads/air-quality/sip/ozone/dfw/naaqs-2015/22023sip_2015_dfw-hgb_rfp_app11.pdf. Accessed: July 2026.

Propulsion	Aircraft Type	SL1	SL2	SL3	SL4	SL5	SL6	SL7	SL8	SL9
Jet	A35K	-	-	-	-	-	-	-	100%	-
Jet	A388	-	-	-	-	-	100%	-	-	-
Jet	B38M	15%	31%	46%	8%	-	-	-	-	-
Jet	B39M	4%	4%	93%	-	-	-	-	-	-
Jet	B737	28%	29%	43%	-	-	-	-	-	-
Jet	B738	21%	46%	31%	2%	-	-	-	-	-
Jet	B739	7%	4%	89%	-	-	-	-	-	-
Jet	B744	2%	5%	33%	-	33%	14%	-	13%	-
Jet	B748	-	69%	3%	-	28%	-	-	-	-
Jet	B752	44%	35%	21%	-	-	-	-	-	-
Jet	B763	22%	57%	21%	-	-	-	-	-	-
Jet	B772	1%	13%	10%	2%	8%	46%	13%	8%	-
Jet	B77L	1%	21%	0%	-	19%	30%	29%	-	-
Jet	B77W	1%	4%	2%	-	-	58%	-	14%	21%
Jet	B788	1%	10%	10%	-	24%	19%	5%	31%	-
Jet	B789	-	11%	4%	-	3%	27%	9%	45%	-
Jet	BCS1	-	18%	82%	-	-	-	-	-	-
Jet	BCS3	-	36%	64%	-	-	-	-	-	-
Jet	C17	100%	-	-	-	-	-	-	-	-
Jet	C56X	100%	-	-	-	-	-	-	-	-
Jet	C68A	100%	-	-	-	-	-	-	-	-
Jet	C700	100%	-	-	-	-	-	-	-	-
Jet	CL35	100%	-	-	-	-	-	-	-	-
Jet	CRJ2	100%	-	-	-	-	-	-	-	-
Jet	CRJ7	70%	30%	-	-	-	-	-	-	-
Jet	CRJ9	54%	46%	-	-	-	-	-	-	-
Jet	E135	100%	-	-	-	-	-	-	-	-
Jet	E145	100%	-	-	-	-	-	-	-	-
Jet	E170	77%	23%	-	-	-	-	-	-	-
Jet	E190	-	94%	6%	-	-	-	-	-	-
Jet	E55P	100%	-	-	-	-	-	-	-	-
Jet	E75L	63%	36%	1%	-	-	-	-	-	-
Jet	G280	100%	-	-	-	-	-	-	-	-
Jet	LJ35	100%	-	-	-	-	-	-	-	-
Jet	MD11	16%	71%	13%	-	-	-	-	-	-
Non-Jet	C172	100%	-	-	-	-	-	-	-	-
Non-Jet	B190	100%	-	-	-	-	-	-	-	-
Non-Jet	BE20	100%	-	-	-	-	-	-	-	-
Non-Jet	BE99	100%	-	-	-	-	-	-	-	-
Non-Jet	C208	100%	-	-	-	-	-	-	-	-
Non-Jet	C30J	100%	-	-	-	-	-	-	-	-
Non-Jet	PC12	100%	-	-	-	-	-	-	-	-
Non-Jet	SF34	88%	12%	-	-	-	-	-	-	-

Note: SL = Stage Length
Source: DFW NOMS, HMMH analysis

Runway end utilization refers to the percent of time that a particular runway end is used for departures or arrivals. Proportional use of a runway is based largely on conditions of wind direction and velocity and the length of the runway. HMMH calculated runway usage rates using operations data from the DFW NOMS for a recent 12-month period without any extended runway closures. DFW has had several runway reconstruction projects in the past two years, with the latest completed in October 2024. The modeling incorporated runway usage rates from October 2021 through September 2022, which is fiscal year [FY] 2022.[20] **Table 2-12**

[20] HMMH compared FY 2022 runway use data to the runway usage for calendar year 2025; the values are within 2 percent or less.

summarizes the modeled Existing Condition runway use by day (7:00AM to 10:59PM) and night (11:00PM to 6:59AM) arrivals and departures. Long haul departure flights (greater than Stage Length 5) for widebody aircraft types (747 types, 777 types, 787 types, A380 and A350) were limited to the four long parallels for departures to provide sufficient runway length.

Table 2-12. Runway Use Percentages, Existing Condition

Propulsion	Runway	Day Arrivals	Night Arrivals	Day Departures	Night Departures
Jet	13L	--	--	<1%	--
Jet	13R	3%	<1%	<1%	--
Jet	17C	27%	32%	<1%	1%
Jet	17L	11%	1%	<1%	--
Jet	17R	<1%	7%	39%	33%
Jet	18L	<1%	4%	31%	31%
Jet	18R	28%	24%	<1%	6%
Jet	31L	<1%	0%	<1%	--
Jet	31R	<1%	<1%	<1%	--
Jet	35C	11%	14%	<1%	<1%
Jet	35L	<1%	3%	16%	15%
Jet	35R	5%	<1%	<1%	--
Jet	36L	12%	10%	<1%	2%
Jet	36R	<1%	1%	14%	13%
Jet Subtotal	**-**	**100%**	**100%**	**100%**	**100%**
Non-Jet	13L	<1%	--	<1%	<1%
Non-Jet	13R	28%	<1%	<1%	0%
Non-Jet	17C	9%	16%	3%	2%
Non-Jet	17L	23%	<1%	<1%	--
Non-Jet	17R	<1%	4%	38%	15%
Non-Jet	18L	<1%	5%	24%	18%
Non-Jet	18R	9%	44%	5%	34%
Non-Jet	31L	<1%	--	9%	2%
Non-Jet	31R	13%	--	<1%	--
Non-Jet	35C	2%	8%	2%	<1%
Non-Jet	35L	<1%	1%	15%	7%
Non-Jet	35R	3%	<1%	--	--
Non-Jet	36L	12%	18%	<1%	15%
Non-Jet	36R	<1%	1%	3%	5%
Non-Jet Subtotal	**-**	**100%**	**100%**	**100%**	**100%**
Overall	13L	<1%	--	<1%	<1%
Overall	13R	4%	<1%	<1%	--
Overall	17C	27%	32%	<1%	1%
Overall	17L	11%	1%	<1%	--
Overall	17R	<1%	7%	39%	32%
Overall	18L	<1%	4%	31%	30%
Overall	18R	28%	25%	<1%	7%
Overall	31L	<1%	--	<1%	<1%
Overall	31R	1%	<1%	<1%	--
Overall	35C	11%	14%	<1%	<1%
Overall	35L	<1%	3%	16%	14%
Overall	35R	5%	<1%	<1%	--
Overall	36L	12%	11%	<1%	3%
Overall	36R	<1%	1%	14%	12%
Overall Subtotal	**-**	**100%**	**100%**	**100%**	**100%**

Sources: DFW NOMS FY2022, HMMH analysis

For taxi times, HMMH utilized the average taxi times provided by DFW Design Code and Construction (DCC),[21] supplemented with FY 2022 average taxi times[22] obtained from the FAA Aviation System Performance Metrics (ASPM) database. The taxi times in **Table 2-13** will be used as inputs for the Existing Conditions.

Table 2-13. Existing Condition Taxi Times

Scenario	Runway End	Taxi-In Time (Minutes)	Taxi-Out Time (Minutes)
Existing Condition	13L	11.2	16.0
Existing Condition	13R	14.2	16.0
Existing Condition	17C	12.8	8.4
Existing Condition	17L	14.7	16.4
Existing Condition	17R	7.0	17.5
Existing Condition	18L	8.2	16.9
Existing Condition	18R	10.5	9.6
Existing Condition	31L	14.2	24.6
Existing Condition	31R	11.1	40.1
Existing Condition	35C	12.3	16.7
Existing Condition	35L	8.4	18.4
Existing Condition	35R	14.9	17.8
Existing Condition	36L	11.7	16.5
Existing Condition	36R	11.4	17.7

Source: HMMH 2025, FAA Aviation System Performance Metrics (ASPM), accessed on July 14, 2025

2.4.2.2.3 Future Alternatives

The following sections discuss the development of the aircraft operational forecast, runway use, flight tracks and flight track usage for the future No Action and Proposed Action Alternatives. The following conditions have been evaluated in the Supplemental EA with 2031 being the year of implementation and 2036 being implementation year plus five:

- 2031 No Action
- 2031 Proposed Action
- 2036 No Action
- 2036 Proposed Action

2.4.2.2.3.1 Forecast Aircraft Operations

Construction of the Terminal F and related facilities is expected to occur between 2026 and 2031. DFW submitted forecast fiscal year operations developed from the FAA 2024 Terminal Area Forecast (TAF) for 2031 and 2036 to FAA for approval in a memorandum dated April 1, 2026. The FAA approved forecast operations and enplanements[23] for the Supplemental EA were calculated from the 2024 TAF. Since the TAF forecast numbers represent the fiscal year an adjustment to the operational data was made to develop the forecast numbers for the calendar year. The future forecast Calendar Year (CY) operations were derived by multiplying the fiscal year (FY) total by 75 percent (which represents 9 months (January – September) and adding it to the remaining 25 percent (representing 3 months (October – December) of the following fiscal year multiplied by the TAF growth rate between the two fiscal years for each OPSNET category. This was done as follows for each year:

[21] *DFW Planning: Runway 18L/36R Rehabilitation Analysis*
[22] 2022 taxi times (and runway usage) were used in this analysis as a recent 12-month period with no extended runway closures.
[23] Approved by FAA on April 3, 2026

- CY 2031 operations = 75 percent of operations + (25 percent of Operations * TAF growth rate between 2031 and 2032)
- CY 2036 operations = 75 percent of operations + (25 percent of Operations * TAF growth rate between 2036 and 2037)

Table 2-14 presents the fiscal year totals as reported in the approved DFW Operations Memo, the overall FY to CY adjustment factor from the 2024 FAA TAF and the calendar year operations to be modeled for 2031 and 2036.

Table 2-14. Fiscal Year to Calendar Year Adjustment

Alternative	FY	CY	Adjustment
No Action 2031	820,046	823,078	1.003697
Proposed Action 2031	890,218	893,512	1.003700
No Action 2036	830,351	833,463	1.003748
Proposed Action 2036	961,983	965,603	1.003763

Sources: FAA TAF, DFW Ops Memo, HMMH analysis, 2026

Table 2-15 lists the annual operations by operational category and the same data, divided by the number of days in the year to obtain the Annual Average Day (AAD) operations for each alternative for 2031 and 2036.

The fleet mix for each forecast and alternative year (2031, 2036) was based on the table provided in Appendix D of the DFW Operations Memo. The split between day and night operations from the 2024 data was applied to the future year data sets, and the cargo operations were separated from passenger operations to reflect the constrained level of cargo operations reflected in the original CTA Expansion Project EA. Emissions are calculated based on the annual operations for each alternative.

Table 2-15. Annual and AAD Forecast Operations for Emissions Model Input

Alternative	Operations Format	Air Carrier	Air Carrier Cargo	Air Taxi	Air Taxi Cargo	General Aviation/Military	Total
No Action 2031	Annual	762,402	29,770	22,684	1,492	6,729	823,078
Proposed Action 2031	Annual	830,785	29,799	24,869	1,465	6,593	893,512
Difference		**68,383**	**29**	**2,185**	**(27)**	**(136)**	**70,434**
No Action 2036	Annual	794,371	29,780	1,178	1,486	6,648	833,463
Proposed Action 2036	Annual	925,031	29,783	1,601	1,486	7,702	965,603
Difference		**130,660**	**3**	**423**	**(0)**	**1,054**	**132,140**
No Action 2031	AAD	2,088.8	81.6	62.1	4.1	18.4	2,255.0
Proposed Action 2031	AAD	2,276.1	81.6	68.1	4.0	18.1	2,448.0
Difference		**187.4**	**0.1**	**6.0**	**(0.1)**	**(0.4)**	**193.0**
No Action 2036	AAD	2,170.4	81.4	3.2	4.1	18.2	2,277.2
Proposed Action 2036	AAD	2,527.4	81.4	4.4	4.1	21.0	2,638.3
Difference		**357.0**	**0.0**	**1.2**	**0.0**	**2.9**	**361.0**

Sources: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

For the No Action and Proposed Action scenarios, the average taxi times from the original CTA Expansion Project EA are used and are listed in **Table 2-16**.

Table 2-16. Annual and AAD Forecast Operations for Emissions Model Input

Runway	Departure Average Taxi-Out Minutes	Departure Average Taxi-In Minutes
Overall	17.8	11.2

2.4.2.2.3.2 Future (2031) No Action Alternative

Under the No Action Alternative, the Central Terminal Area would not be developed. There would be no changes to the use of existing 170 gates at DFW, passenger operations would be constrained due to lack of sufficient facilities, and overall operational levels would grow at a minimal growth rate to over 823,000 operations. The Future (2031) No Action Alternative would include the additional cargo operations disclosed in the 19th Street Cargo EA Proposed Action.

The 823,078 annual operations forecasted for year 2031 were modeled for the Future (2031) No Action Alternative air quality analysis. **Table 2-17** provides representative aircraft types and the number of average daily operations that were modeled in AEDT for the Future (2031) No Action Alternative. The Future (2031) No Action Alternative fleet mix would include changes in the Air Carrier fleet mix (the retirement of the older A333, A343 and MD11 aircraft) and a reduction in Air Taxi fleet operations (reduction in 50-seat and smaller regional jets) compared to the existing conditions. The Future (2031) No Action Alternative includes 2,255 total daily operations.

Table 2-17. DFW Modeled Average Daily Aircraft Operations for Future (2031) No Action Alternative

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Carrier Cargo	Jet	A306	3.4	0.2	3.1	0.5	7.2
Air Carrier Cargo	Jet	B738	8.5	0.9	8.3	1.1	18.8
Air Carrier Cargo	Jet	B744	2.2	1.0	2.1	1.1	6.4
Air Carrier Cargo	Jet	B748	1.1	0.8	1.2	0.7	3.7
Air Carrier Cargo	Jet	B752	4.8	0.4	4.6	0.7	10.6
Air Carrier Cargo	Jet	B763	7.7	3.4	5.9	5.2	22.2
Air Carrier Cargo	Jet	B77L	3.9	2.4	2.4	3.9	12.6
Air Carrier Passenger	Jet	A20N	33.5	12.2	33.6	12.1	91.3
Air Carrier Passenger	Jet	A21N	24.7	5.4	26.4	3.8	60.3
Air Carrier Passenger	Jet	A319	92.3	8.3	91.7	8.9	201.2
Air Carrier Passenger	Jet	A320	52.8	7.4	54.0	6.2	120.4
Air Carrier Passenger	Jet	A321	189.1	27.4	192.4	23.9	432.7
Air Carrier Passenger	Jet	A359	0.3	0.0	0.3	0.0	0.6
Air Carrier Passenger	Jet	A35K	0.9	0.0	0.7	0.2	1.8
Air Carrier Passenger	Jet	A388	1.2	0.0	1.2	0.1	2.5
Air Carrier Passenger	Jet	B38M	30.0	8.7	35.2	3.5	77.3
Air Carrier Passenger	Jet	B39M	9.6	4.3	12.3	1.6	27.8
Air Carrier Passenger	Jet	B737	6.4	1.9	8.3	0.1	16.7
Air Carrier Passenger	Jet	B738	203.6	24.3	208.0	19.8	455.8
Air Carrier Passenger	Jet	B739	3.2	1.8	4.4	0.7	10.2
Air Carrier Passenger	Jet	B744	0.8	0.3	0.8	0.3	2.1
Air Carrier Passenger	Jet	B748	0.1	0.3	0.2	0.1	0.7
Air Carrier Passenger	Jet	B772	9.1	1.1	9.7	0.4	20.3
Air Carrier Passenger	Jet	B77W	6.0	0.0	5.2	0.8	12.0
Air Carrier Passenger	Jet	B788	3.3	1.4	4.7	0.0	9.5
Air Carrier Passenger	Jet	B789	15.3	2.3	15.2	2.4	35.2
Air Carrier Passenger	Jet	BCS1	37.6	3.4	36.4	4.4	81.8
Air Carrier Passenger	Jet	BCS3	22.9	3.9	25.1	1.8	53.8
Air Carrier Passenger	Jet	E190	1.9	0.0	1.9	0.0	3.8
Air Carrier Passenger	Regional Jet	CRJ7	58.1	8.3	61.2	5.2	132.8
Air Carrier Passenger	Regional Jet	CRJ9	22.7	3.1	23.4	2.4	51.7
Air Carrier Passenger	Regional Jet	E170	74.7	9.3	76.5	7.5	168.0

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Carrier Passenger	Regional Jet	E75L	8.4	0.7	8.4	0.7	18.3
Air Carrier Total	**-**	**-**	**940.0**	**145.1**	**964.9**	**120.2**	**2170.3**
Air Taxi Cargo	Non-Jet	B190	0.5	0.0	0.4	0.2	1.1
Air Taxi Cargo	Non-Jet	BE99	0.7	0.0	0.6	0.1	1.3
Air Taxi Cargo	Non-Jet	C208	0.7	0.1	0.7	0.1	1.6
Air Taxi Passenger	Jet	C68A	0.3	0.0	0.3	0.0	0.7
Air Taxi Passenger	Jet	C700	0.1	0.0	0.1	0.0	0.2
Air Taxi Passenger	Jet	E135	14.9	0.0	14.8	0.0	29.7
Air Taxi Passenger	Jet	E145	15.2	0.0	15.2	0.0	30.5
Air Taxi Passenger	Non-Jet	C208	0.5	0.0	0.5	0.0	1.1
Air Taxi Total	**-**	**-**	**32.9**	**0.2**	**32.7**	**0.5**	**66.2**
General Aviation	Jet	C25M	0.4	0.0	0.4	0.0	0.9
General Aviation	Jet	C56X	0.4	0.0	0.4	0.0	0.9
General Aviation	Jet	CL35	0.2	0.0	0.2	0.0	0.4
General Aviation	Jet	E55P	0.2	0.0	0.2	0.0	0.4
General Aviation	Jet	GLF4	0.3	0.0	0.3	0.0	0.7
General Aviation	Jet	GLF5	0.2	0.0	0.2	0.0	0.4
General Aviation	Jet	LJ35	0.4	0.0	0.4	0.0	0.9
General Aviation	Non-Jet	PC12	6.6	0.3	6.3	0.5	13.7
General Aviation Total	**-**	**-**	**8.9**	**0.3**	**8.6**	**0.6**	**18.4**
Grand Total	**-**	**-**	**981.9**	**145.6**	**1006.2**	**121.3**	**2255.0**

Note: Totals may not match exactly due to rounding.
Sources: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

The trip lengths flown from DFW for the Future (2031) No Action Alternative are listed **Table 2-18**. The No Action Alternative is similar to existing conditions except for the removal of the A333, A343 and MD11 aircraft.

Table 2-18. Modeled Departure Stage Length Distribution by Aircraft Type for Future (2031) No Action Alternative

Propulsion	Aircraft Type	SL1	SL2	SL3	SL4	SL5	SL6	SL7	SL8	SL9	SLM
Jet	A20N	6.6%	65.1%	24.6%	3.7%	-	-	-	-	-	-
Jet	A21N	4.6%	53.3%	39.1%	0.8%	2.2%	-	-	-	-	-
Jet	A306	20.0%	55.9%	24.1%	-	-	-	-	-	-	-
Jet	A319	27.9%	49.5%	21.9%	0.8%	-	-	-	-	-	-
Jet	A320	19.7%	52.0%	28.3%	0.1%	-	-	-	-	-	-
Jet	A321	6.2%	59.9%	32.5%	1.1%	0.2%	-	-	-	-	-
Jet	A359	-	-	-	-	-	-	99.7%	0.3%	-	-
Jet	A35K	-	-	-	-	-	-	-	23.0%	77.0%	-
Jet	A388	-	-	-	-	-	100.0%	-	-	-	-
Jet	B38M	15.0%	30.7%	46.1%	8.3%	-	-	-	-	-	-
Jet	B39M	3.8%	3.6%	92.6%	-	-	-	-	-	-	-
Jet	B737	28.2%	29.2%	42.6%	-	-	-	-	-	-	-
Jet	B738	21.8%	46.0%	30.4%	1.7%	-	-	-	-	-	-
Jet	B739	7.2%	3.6%	89.3%	-	-	-	-	-	-	-
Jet	B744	3.0%	8.2%	22.1%	-	25.7%	21.0%	-	20.1%	-	-
Jet	B748	-	68.9%	2.7%	-	28.4%	-	-	-	-	-
Jet	B752	43.9%	34.5%	21.5%	-	-	-	-	-	-	-
Jet	B763	22.5%	56.9%	20.6%	-	-	-	-	-	-	-
Jet	B772	0.6%	12.8%	9.5%	2.5%	7.9%	46.1%	12.5%	8.2%	-	-
Jet	B77L	0.8%	20.7%	-	-	18.8%	30.4%	-	<0.1%	29.3%	-
Jet	B77W	0.6%	3.5%	2.4%	-	-	57.7%	-	14.5%	-	-
Jet	B788	0.8%	10.2%	10.2%	-	23.9%	18.9%	5.1%	30.7%	-	-
Jet	B789	0.4%	11.0%	4.1%	-	2.9%	27.5%	9.2%	20.0%	20.3%	4.6%
Jet	BCS1	0.3%	18.0%	81.7%	-	-	-	-	-	-	-
Jet	BCS3	-	35.8%	64.2%	-	-	-	-	-	-	-

Propulsion	Aircraft Type	SL1	SL2	SL3	SL4	SL5	SL6	SL7	SL8	SL9	SLM
Jet	C25M	100.0%	-	-	-	-	-	-	-	-	-
Jet	C56X	100.0%	-	-	-	-	-	-	-	-	-
Jet	C68A	100.0%	-	-	-	-	-	-	-	-	-
Jet	C700	100.0%	-	-	-	-	-	-	-	-	-
Jet	CL35	100.0%	-	-	-	-	-	-	-	-	-
Jet	CRJ7	69.8%	30.1%	0.1%	-	-	-	-	-	-	-
Jet	CRJ9	53.5%	46.4%	0.2%	-	-	-	-	-	-	-
Jet	E135	100%	-	-	-	-	-	-	-	-	-
Jet	E145	100%	-	-	-	-	-	-	-	-	-
Jet	E170	77.3%	22.6%	0.1%	-	-	-	-	-	-	-
Jet	E190	-	93.9%	6.1%	-	-	-	-	-	-	-
Jet	E55P	100%	-	-	-	-	-	-	-	-	-
Jet	E75L	62.6%	36.0%	1.4%	-	-	-	-	-	-	-
Jet	GLF4	100%	-	-	-	-	-	-	-	-	-
Jet	GLF5	100%	-	-	-	-	-	-	-	-	-
Jet	LJ35	100%	-	-	-	-	-	-	-	-	-
Non-Jet	B190	100%	-	-	-	-	-	-	-	-	-
Non-Jet	BE99	100%	-	-	-	-	-	-	-	-	-
Non-Jet	C208	100%	-	-	-	-	-	-	-	-	-
Non-Jet	PC12	100%	-	-	-	-	-	-	-	-	-

Note: Totals may not match exactly due to rounding.
Sources: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

Runway end utilization for all of the future alternatives is similar to existing conditions (see **Table 2-12**). Runway use data from the FAA System Wide Information Management (SWIM) system data was used to develop the future runway use percentages. The runway use percentage for day and night includes the assumption that the outboard runways (Runways 17L/35R, 13L/31R and 13R/31L) are not typically used after 10 p.m. or before 6 a.m.

Compared to the existing runway use:

- Daytime south flow – There are slightly less arrivals (1 percent to 3 percent) to Runway 13R and 17C and slightly more arrivals (1 percent to 2 percent) on Runway 17L and 18R.
- Nighttime south flow – there are less arrivals (7 percent) to Runway 17C and more arrivals (3 percent to 5 percent) on Runway 17R and 18L.
- Daytime north flow – There are slightly less arrivals (3 percent) to Runway 35C and slightly more arrivals (1 percent to 3 percent) on Runway 35R and 36L.
- Nighttime north flow – There are slightly less arrivals (3 percent) to Runway 35C and slightly more arrivals (1 percent to 2 percent) on Runway 35L and 36R.
- South flow departures show very little difference (within 1 percent) during the day and a small reduction (2 percent) on Runway 17R and a small increase (2 percent) on Runway 17C at night.
- North flow departures show very little difference (within 1 percent) during the day and a small reduction (1 percent) on Runway 35L and Runway 36L and a small increase (2 percent) on Runway 35C and 36R at night.

Table 2-19 provides the breakdown by time of day for future arrivals and departures.

Table 2-19. Runway Use Percentages, Future 2031 and 2036 Conditions

Runway	Day Arrivals	Night Arrivals	Total	Day Departures	Night Departures	Total
13L	0%	0%	0%	0%	0%	0%
13R	3%	<1%	3%	0%	0%	0%
17C	24%	25%	24%	<1%	2%	<1%
17L	13%	<1%	12%	0%	0%	0%
17R	<1%	12%	1%	39%	30%	38%
18L	<1%	7%	<1%	31%	31%	31%
18R	29%	25%	29%	<1%	6%	<1%
31L	0%	0%	0%	<1%	<1%	<1%
31R	1%	<1%	1%	0%	0%	0%
35C	8%	11%	8%	<1%	2%	<1%
35L	<1%	4%	<1%	15%	13%	15%
35R	8%	<1%	7%	0%	0%	0%
36L	13%	11%	13%	<1%	2%	<1%
36R	<1%	3%	<1%	14%	14%	14%
-	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**

Sources: FAA SWIM, Centurion Planning and Design, 2023

2.4.2.2.3.3 Future (2031) Proposed Action Alternative

The proposed project would be completed and operational in 2031, and the Proposed Action Alternative represents the year of implementation for the Supplemental EA projects. The Future (2031) Proposed Action Alternative would include the additional cargo operations disclosed in the 19th Street Cargo EA Proposed Action. All forecasted operational demand would be accommodated with the 31 additional gates and 9 additional gates (converted from Hardstands) in the Proposed Action Alternative. Therefore, the forecast annual operations for Future (2031) Proposed Action Alternative would grow to over 890,000 annual operations.

The 893,512 annual operations predicted for the year were modeled for the Future (2031) Proposed Action Alternative air quality analysis. **Table 2-20** provides representative aircraft and the number of average daily operations that were modeled in AEDT for the Future (2031) Proposed Action Alternative. The Future (2031) Proposed Action Alternative fleet mix would include changes in the Air Carrier fleet mix (the retirement of the older A333, A343 and MD11) and a reduction in Air Taxi fleet operations (reduction in 50-seat and smaller regional jets) compared to the existing conditions. The Future (2031) Proposed Action Alternative AAD would include 2,448 total operations.

Table 2-20. DFW Modeled Average Daily Aircraft Operations for Future (2031) Proposed Action Alternative

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Carrier Cargo	Jet	A306	4.6	0.3	4.2	0.7	9.8
Air Carrier Cargo	Jet	B738	7.0	0.8	6.8	0.9	15.5
Air Carrier Cargo	Jet	B744	2.2	1.0	2.1	1.1	6.4
Air Carrier Cargo	Jet	B748	1.1	0.8	1.2	0.7	3.7
Air Carrier Cargo	Jet	B752	4.9	0.4	4.7	0.7	10.7
Air Carrier Cargo	Jet	B763	8.0	3.6	6.2	5.4	23.2
Air Carrier Cargo	Jet	B77L	3.8	2.3	2.4	3.8	12.4
Air Carrier Passenger	Jet	A20N	32.8	12.0	32.9	11.9	89.6
Air Carrier Passenger	Jet	A21N	26.9	5.9	28.8	4.2	65.8
Air Carrier Passenger	Jet	A319	96.1	8.6	95.4	9.2	209.3
Air Carrier Passenger	Jet	A320	59.1	8.4	60.4	7.0	134.9

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Carrier Passenger	Jet	A321	206.3	29.8	209.9	26.1	472.1
Air Carrier Passenger	Jet	A359	0.4	0.0	0.3	0.0	0.7
Air Carrier Passenger	Jet	A35K	1.0	0.0	0.7	0.3	2.0
Air Carrier Passenger	Jet	A388	1.1	0.0	1.1	0.0	2.2
Air Carrier Passenger	Jet	B38M	32.2	9.4	37.8	3.7	83.0
Air Carrier Passenger	Jet	B39M	10.3	4.6	13.2	1.7	29.8
Air Carrier Passenger	Jet	B737	6.6	2.0	8.6	0.1	17.3
Air Carrier Passenger	Jet	B738	212.8	25.4	217.4	20.7	476.4
Air Carrier Passenger	Jet	B739	3.4	1.9	4.6	0.8	10.6
Air Carrier Passenger	Jet	B744	3.0	1.2	3.0	1.3	8.5
Air Carrier Passenger	Jet	B748	0.1	0.5	0.4	0.2	1.2
Air Carrier Passenger	Jet	B772	13.2	1.5	14.1	0.6	29.4
Air Carrier Passenger	Jet	B773	4.6	0.0	4.0	0.7	9.4
Air Carrier Passenger	Jet	B77W	6.0	0.0	5.2	0.8	12.0
Air Carrier Passenger	Jet	B788	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Air Carrier Passenger	Jet	B789	17.3	2.6	17.2	2.7	39.7
Air Carrier Passenger	Jet	BCS1	38.9	3.5	37.7	4.5	84.7
Air Carrier Passenger	Jet	BCS3	23.8	4.1	26.0	1.9	55.7
Air Carrier Passenger	Jet	E190	2.3	0.0	2.3	0.0	4.7
Air Carrier Passenger	Regional Jet	CRJ7	68.9	9.8	72.6	6.1	157.4
Air Carrier Passenger	Regional Jet	CRJ9	26.9	3.7	27.7	2.9	61.3
Air Carrier Passenger	Regional Jet	E170	83.5	10.4	85.5	8.4	187.8
Air Carrier Passenger	Regional Jet	E75L	9.3	0.8	9.4	0.8	20.3
Air Carrier Total	**-**	**-**	**1,021.9**	**157.0**	**1049.0**	**129.9**	**2,357.8**
Air Taxi Cargo	Non-Jet	B190	0.9	0.0	0.7	0.3	2.0
Air Taxi Cargo	Non-Jet	BE99	0.5	0.0	0.5	0.1	1.1
Air Taxi Cargo	Non-Jet	C208	0.4	0.1	0.4	0.1	1.0
Air Taxi Passenger	Jet	C68A	0.6	0.0	0.6	0.0	1.2
Air Taxi Passenger	Jet	C700	0.2	0.0	0.2	0.0	0.5
Air Taxi Passenger	Jet	E135	15.3	0.0	15.2	0.0	30.6
Air Taxi Passenger	Jet	E145	15.7	0.0	15.7	0.0	31.3
Air Taxi Passenger	Non-Jet	BE20	0.0	0.6	0.0	0.6	1.1
Air Taxi Passenger	Non-Jet	C208	1.7	0.0	1.7	0.0	3.4
Air Taxi Total	**-**	**-**	**35.4**	**0.7**	**34.9**	**1.1**	**72.1**
General Aviation	Jet	C25M	0.6	0.0	0.6	0.0	1.2
General Aviation	Jet	C56X	0.5	0.0	0.5	0.0	1.0
General Aviation	Jet	CL35	0.2	0.0	0.2	0.0	0.5
General Aviation	Jet	E55P	0.4	0.0	0.3	0.0	0.7
General Aviation	Jet	GLF4	0.4	0.0	0.4	0.0	0.7
General Aviation	Jet	GLF5	0.2	0.0	0.2	0.0	0.5
General Aviation	Jet	LJ35	0.1	0.0	0.1	0.0	0.2
General Aviation	Non-Jet	PC12	6.3	0.3	6.1	0.5	13.2
General Aviation Total	**-**	**-**	**8.7**	**0.3**	**8.5**	**0.6**	**18.1**
Grand Total	**-**	**-**	**1,066.0**	**158.0**	**1,092.4**	**131.6**	**2,448.0**

Note: Totals may not match exactly due to rounding.
Sources: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

The trip lengths flown from DFW for the Future (2031) No Action Alternative are listed in **Table 2-21.** The No Action Alternative is similar to existing conditions except for the removal of the A333, A343 and MD11 aircraft.

Table 2-21. Modeled Departure Stage Length Distribution by Aircraft Type for Future (2031) Proposed Action Alternative

Propulsion	Aircraft Type	SL1	SL2	SL3	SL4	SL5	SL6	SL7	SL8	SL9	SLM
Jet	A20N	6.6%	65.1%	24.6%	3.7%	-	-	-	-	-	-
Jet	A21N	4.6%	53.3%	39.1%	0.8%	2.2%	-	-	-	-	-
Jet	A306	20.0%	55.9%	24.1%	-	-	-	-	-	-	-
Jet	A319	27.9%	49.5%	21.9%	0.8%	-	-	-	-	-	-
Jet	A320	19.6%	52.3%	28.0%	0.1%	-	-	-	-	-	-
Jet	A321	6.2%	59.9%	32.5%	1.1%	0.2%	-	-	-	-	-
Jet	A359	-	-	-	-	-	-	99.7%	0.3%	-	-
Jet	A35K	-	-	-	-	-	-	-	23.0%	77.0%	-
Jet	A388	-	-	-	-	-	100.0%	-	-	-	-
Jet	B38M	15.0%	30.7%	46.1%	8.3%	-	-	-	-	-	-
Jet	B39M	3.8%	3.6%	92.6%	-	-	-	-	-	-	-
Jet	B737	28.2%	29.2%	42.6%	-	-	-	-	-	-	-
Jet	B738	21.7%	46.1%	30.5%	1.7%	-	-	-	-	-	-
Jet	B739	7.2%	3.6%	89.3%	-	-	-	-	-	-	-
Jet	B744	1.7%	4.7%	35.4%	-	34.7%	12.0%	-	11.5%	-	-
Jet	B748	-	64.0%	2.5%	-	33.5%	-	-	-	-	-
Jet	B752	43.9%	34.5%	21.5%	-	-	-	-	-	-	-
Jet	B763	22.5%	56.9%	20.6%	-	-	-	-	-	-	-
Jet	B772	0.6%	12.8%	9.5%	2.5%	7.9%	46.1%	12.5%	8.2%	-	-
Jet	B773	0.6%	3.5%	2.4%	-	-	58.0%	-	14.4%	21.1%	
Jet	B77L	0.8%	20.7%	-	-	18.8%	30.4%	-	<0.1%	29.3%	-
Jet	B77W	0.6%	3.5%	2.4%	-	-	57.7%	-	14.5%	-	-
Jet	B788	0.8%	10.2%	10.2%	-	23.9%	18.9%	5.1%	30.7%	-	-
Jet	B789	0.4%	11.0%	4.1%	-	2.9%	27.5%	9.2%	20.0%	20.3%	4.6%
Jet	BCS1	0.3%	18.0%	81.7%	-	-	-	-	-	-	-
Jet	BCS3	-	35.8%	64.2%	-	-	-	-	-	-	-
Jet	C25M	100.0%	-	-	-	-	-	-	-	-	-
Jet	C56X	100.0%	-	-	-	-	-	-	-	-	-
Jet	C68A	100.0%	-	-	-	-	-	-	-	-	-
Jet	C700	100.0%	-	-	-	-	-	-	-	-	-
Jet	CL35	100.0%	-	-	-	-	-	-	-	-	-
Jet	CRJ7	69.8%	30.1%	0.1%	-	-	-	-	-	-	-
Jet	CRJ9	53.5%	46.4%	0.2%	-	-	-	-	-	-	-
Jet	E135	100%	-	-	-	-	-	-	-	-	-
Jet	E145	100%	-	-	-	-	-	-	-	-	-
Jet	E170	77.3%	22.6%	0.1%	-	-	-	-	-	-	-
Jet	E190	-	93.9%	6.1%	-	-	-	-	-	-	-
Jet	E55P	100%	-	-	-	-	-	-	-	-	-
Jet	E75L	62.6%	36.0%	1.4%	-	-	-	-	-	-	-
Jet	GLF4	100%	-	-	-	-	-	-	-	-	-
Jet	GLF5	100%	-	-	-	-	-	-	-	-	-
Jet	LJ35	100%	-	-	-	-	-	-	-	-	-
Non-Jet	B190	100%	-	-	-	-	-	-	-	-	-
Non-Jet	BE20	100%	-	-	-	-	-	-	-	-	-
Non-Jet	BE99	100%	-	-	-	-	-	-	-	-	-
Non-Jet	C208	100%	-	-	-	-	-	-	-	-	-
Non-Jet	PC12	100%	-	-	-	-	-	-	-	-	-

Note: SL = Stage Length
Source: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

The proposed action would not alter the location or length of the runways, nor would it alter future runway use. Runway end utilization for the Future (2031) Proposed Action Alternative is same as the Future (2036) No Action Alternative (see **Table 2-19**).

2.4.2.2.3.4 Future (2036) No Action Alternative

The Future (2036) No Action Alternative would include the additional cargo operations disclosed in the 19th Street Cargo EA Proposed Action. Under the Future (2036) No Action Alternative, there would be no changes to the use of existing 180 gates (170 contact gates and 10 ground-loaded gates) at DFW, Air Carrier operations would be constrained due to lack of sufficient facilities, and overall operational levels would grow at a minimal growth rate to over 830,000 operations.

The 830,354 annual operations forecast for year 2036 with the Proposed Action were modeled for the Future (2036) No Action Alternative air quality analysis. **Table 2-22** provides representative aircraft and engine combinations and the number of average daily operations that were modeled in AEDT for the Future (2036) No Action Alternative. The Future (2036) No Action Alternative fleet mix would change in the Air Carrier fleet mix (the retirement of the older MD11) and a reduction in Air Taxi fleet operations (reduction in 50 seat and smaller regional jets) compared to the existing conditions. The Future (2036) No Action Alternative AAD includes 2,275 total operations.

Table 2-22. DFW Modeled Average Daily Aircraft Operations for Future (2036) No Action Alternative

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Carrier Cargo	Jet	A35K	4.2	2.6	3.4	3.4	13.6
Air Carrier Cargo	Jet	B738	5.8	0.6	5.8	0.6	12.9
Air Carrier Cargo	Jet	B748	1.1	0.8	1.2	0.7	3.9
Air Carrier Cargo	Jet	B763	15.7	7.0	12.1	10.6	45.4
Air Carrier Cargo	Jet	B77L	1.8	1.1	1.1	1.7	5.7
Air Carrier Passenger	Jet	A20N	342.8	55.8	362.7	35.9	797.2
Air Carrier Passenger	Jet	A21N	2.3	0.5	2.4	0.4	5.6
Air Carrier Passenger	Jet	A319	20.9	1.9	20.8	2.0	45.6
Air Carrier Passenger	Jet	A320	15.7	2.2	16.0	1.9	35.8
Air Carrier Passenger	Jet	A321	17.5	2.5	17.8	2.2	40.0
Air Carrier Passenger	Jet	A359	13.1	0.0	12.5	0.6	26.1
Air Carrier Passenger	Jet	A35K	37.0	0.0	27.2	9.9	74.1
Air Carrier Passenger	Jet	A388	1.3	0.0	1.2	0.1	2.5
Air Carrier Passenger	Jet	B38M	243.1	29.3	248.5	19.9	540.7
Air Carrier Passenger	Jet	B39M	77.6	14.5	86.8	9.3	188.1
Air Carrier Passenger	Jet	B738	44.1	5.3	45.1	4.3	98.8
Air Carrier Passenger	Jet	B739	0.7	0.4	1.0	0.2	2.2
Air Carrier Passenger	Jet	B748	0.1	0.3	0.2	0.1	0.7
Air Carrier Passenger	Jet	B77W	2.8	0.0	2.5	0.4	5.7
Air Carrier Passenger	Jet	B788	8.0	3.4	11.3	0.1	22.8
Air Carrier Passenger	Jet	B789	59.5	8.9	59.1	9.2	136.7
Air Carrier Passenger	Jet	E190	10.4	1.0	10.4	1.0	22.8
Air Carrier Passenger	Regional Jet	CRJ7	7.2	1.0	7.6	0.6	16.4
Air Carrier Passenger	Regional Jet	CRJ9	2.8	0.4	2.9	0.3	6.4
Air Carrier Passenger	Regional Jet	E170	40.5	5.0	41.5	4.1	91.1
Air Carrier Passenger	Regional Jet	E75L	5.2	0.5	5.2	0.4	11.4
Air Carrier Total	**-**	**-**	**981.0**	**144.9**	**1,006.1**	**119.8**	**2,251.8**
Air Taxi Cargo	Non-Jet	B190	0.7	0.0	0.5	0.2	1.4
Air Taxi Cargo	Non-Jet	BE99	0.8	0.0	0.7	0.1	1.6
Air Taxi Cargo	Non-Jet	C208	0.5	0.1	0.5	0.1	1.1
Air Taxi Passenger	Jet	C68A	0.4	0.0	0.4	0.0	0.8
Air Taxi Passenger	Jet	C700	0.2	0.0	0.1	0.0	0.3
Air Taxi Passenger	Non-Jet	C208	1.0	0.0	1.0	0.0	2.1
Air Taxi Total	**-**	**-**	**3.5**	**0.2**	**3.2**	**0.5**	**7.3**
General Aviation	Jet	C25M	0.5	0.0	0.5	0.0	0.9
General Aviation	Jet	C56X	0.4	0.0	0.4	0.0	0.9

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
General Aviation	Jet	CL35	0.2	0.0	0.2	0.0	0.5
General Aviation	Jet	E55P	0.2	0.0	0.2	0.0	0.5
General Aviation	Jet	GLF4	0.3	0.0	0.3	0.0	0.7
General Aviation	Jet	GLF5	0.1	0.0	0.1	0.0	0.2
General Aviation	Jet	LJ35	0.5	0.0	0.5	0.0	0.9
General Aviation	Non-Jet	PC12	6.5	0.3	6.3	0.5	13.6
General Aviation Total	**-**	**-**	**8.8**	**0.3**	**8.5**	**0.6**	**18.2**
Grand Total	**-**	**-**	**993.3**	**145.3**	**1,017.8**	**120.8**	**2,277.2**

Note: Totals may not match exactly due to rounding.
Sources: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

The trip lengths flown from DFW for the Future (2036) No Action Alternative is listed in **Table 2-23**. The No Action Alternative is similar to existing conditions except for the removal of the MD11 aircraft.

Table 2-23. Modeled Departure Stage Length Distribution by Aircraft Type for Future (2036) No Action Alternative

Propulsion	Aircraft Type	SL1	SL2	SL3	SL4	SL5	SL6	SL7	SL8	SL9	SLM
Jet	A20N	6.1%	63.6%	27.1%	3.2%	-	-	-	-	-	-
Jet	A21N	4.6%	53.3%	39.1%	0.8%	2.2%	-	-	-	-	-
Jet	A319	27.9%	49.5%	21.9%	0.8%	-	-	-	-	-	-
Jet	A320	19.6%	52.2%	28.1%	0.1%	-	-	-	-	-	-
Jet	A321	6.2%	59.9%	32.5%	1.1%	0.2%	-	-	-	-	-
Jet	A359	-	-	-	-	-	-	99.7%	0.3%	-	-
Jet	A35K	0.5%	1.7%	1.6%	0.0%	3.1%	4.4%	0.0%	23.7%	65.1%	-
Jet	A388	-	-	-	-	-	100.0%	-	-	-	-
Jet	B38M	14.8%	30.2%	46.6%	8.4%	-	-	-	-	-	-
Jet	B39M	3.9%	3.6%	92.5%	0.0%	-	-	-	-	-	-
Jet	B738	23.5%	45.0%	29.8%	1.6%	-	-	-	-	-	-
Jet	B739	7.2%	3.6%	89.3%	-	-	-	-	-	-	-
Jet	B748	-	69.9%	2.8%	0.0%	27.3%	-	-	-	-	-
Jet	B763	22.5%	56.9%	20.6%	-	-	-	-	-	-	-
Jet	B77L	0.8%	20.7%	-	-	18.8%	30.4%	-	<0.1%	29.3%	-
Jet	B77W	0.6%	3.5%	2.4%	-	-	57.7%	-	14.5%	-	-
Jet	B788	0.8%	10.2%	10.2%	-	23.9%	18.9%	5.1%	30.7%	-	-
Jet	B789	0.4%	11.0%	4.1%	-	2.9%	27.5%	9.2%	20.0%	20.3%	4.6%
Jet	C25M	100.0%	-	-	-	-	-	-	-	-	-
Jet	C56X	100.0%	-	-	-	-	-	-	-	-	-
Jet	C68A	100.0%	-	-	-	-	-	-	-	-	-
Jet	C700	100.0%	-	-	-	-	-	-	-	-	-
Jet	CL35	100.0%	-	-	-	-	-	-	-	-	-
Jet	CRJ7	69.8%	30.1%	0.1%	-	-	-	-	-	-	-
Jet	CRJ9	53.5%	46.4%	0.2%	-	-	-	-	-	-	-
Jet	E170	77.3%	22.6%	0.1%	-	-	-	-	-	-	-
Jet	E190	-	93.9%	6.1%	-	-	-	-	-	-	-
Jet	E55P	100%	-	-	-	-	-	-	-	-	-
Jet	E75L	62.6%	36.0%	1.4%	-	-	-	-	-	-	-
Jet	GLF4	100%	-	-	-	-	-	-	-	-	-
Jet	GLF5	100%	-	-	-	-	-	-	-	-	-
Jet	LJ35	100%	-	-	-	-	-	-	-	-	-
Non-Jet	B190	100%	-	-	-	-	-	-	-	-	-
Non-Jet	BE99	100%	-	-	-	-	-	-	-	-	-
Non-Jet	C208	100%	-	-	-	-	-	-	-	-	-
Non-Jet	PC12	100%	-	-	-	-	-	-	-	-	-

Note: SL = Stage Length
Source: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

Runway end utilization for the future (2036) No Action Alternative is assumed to be the same as for the Future (2031) No Action (see **Table 2-19**).

2.4.2.2.3.5 Future (2036) Proposed Action Alternative

The proposed project would be completed in 2031. The Future (2036) Proposed Action Alternative reflects the year of implementation (2031) plus five years. The Future (2036) Proposed Action Alternative would include the additional cargo operations disclosed in the 19th Street Cargo EA Proposed Action. All forecasted demand would be accommodated with the additional gates in the Proposed Action Alternative. Therefore, the forecast annual operations for Future (2036) Proposed Action Alternative would be over 965,000 operations.

The 965,603 annual operations forecast to occur in 2036 with the Proposed Action were modeled for the Future (2036) Proposed Action Alternative air quality analysis. **Table 2-24** provides representative aircraft and engine combinations and the number of average daily operations that were modeled in AEDT for the Future (2036) Proposed Action Alternative. The Future (2036) Proposed Action fleet mix would include the additional operations in the Air Carrier and Air Taxi categories (an additional 353 operations in Air Carrier and 11 operations in Air Taxi) compared to the Future (2036) No Action Alternative. The Future (2036) Proposed Action AAD includes 2,638 total operations.

Table 2-24. DFW Modeled Average Daily Aircraft Operations for Future (2036) Proposed Action Alternative

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Carrier Cargo	Jet	A35K	3.6	2.2	2.9	2.9	11.7
Air Carrier Cargo	Jet	B738	3.3	0.4	3.3	0.4	7.2
Air Carrier Cargo	Jet	B748	1.0	0.7	1.1	0.6	3.3
Air Carrier Cargo	Jet	B763	18.1	8.1	14.0	12.2	52.6
Air Carrier Cargo	Jet	B77L	2.0	1.2	1.3	2.0	6.6
Air Carrier Passenger	Jet	A20N	397.1	64.6	420.2	41.6	923.5
Air Carrier Passenger	Jet	A21N	2.6	0.6	2.8	0.4	6.5
Air Carrier Passenger	Jet	A319	24.2	2.2	24.1	2.3	52.8
Air Carrier Passenger	Jet	A320	18.2	2.6	18.6	2.2	41.4
Air Carrier Passenger	Jet	A321	20.2	2.9	20.6	2.6	46.3
Air Carrier Passenger	Jet	A359	15.7	0.0	14.9	0.7	31.3
Air Carrier Passenger	Jet	A35K	44.4	0.0	32.6	11.9	88.8
Air Carrier Passenger	Jet	A388	1.5	0.0	1.4	0.1	2.9
Air Carrier Passenger	Jet	B38M	281.6	33.9	287.9	23.1	626.4
Air Carrier Passenger	Jet	B39M	89.9	16.8	100.6	10.7	218.0
Air Carrier Passenger	Jet	B738	54.5	6.5	55.7	5.3	122.0
Air Carrier Passenger	Jet	B739	0.9	0.5	1.2	0.2	2.7
Air Carrier Passenger	Jet	B748	0.2	0.8	0.6	0.4	2.0
Air Carrier Passenger	Jet	B77W	3.3	0.0	2.9	0.4	6.6
Air Carrier Passenger	Jet	B788	9.3	3.9	13.1	0.1	26.4
Air Carrier Passenger	Jet	B789	68.9	10.3	68.5	10.7	158.3
Air Carrier Passenger	Jet	E190	12.0	1.2	12.0	1.2	26.4
Air Carrier Passenger	Regional Jet	CRJ7	8.3	1.2	8.8	0.7	19.0
Air Carrier Passenger	Regional Jet	CRJ9	3.2	0.4	3.3	0.3	7.4
Air Carrier Passenger	Regional Jet	E170	46.9	5.9	48.0	4.7	105.5
Air Carrier Passenger	Regional Jet	E75L	6.1	0.5	6.1	0.5	13.2
Air Carrier Total	**-**	**-**	**1,137.0**	**167.4**	**1,166.2**	**138.2**	**2,608.8**
Air Taxi Cargo	Non-Jet	B190	0.8	0.0	0.5	0.3	1.6
Air Taxi Cargo	Non-Jet	BE99	0.6	0.0	0.5	0.1	1.3
Air Taxi Cargo	Non-Jet	C208	0.5	0.1	0.5	0.1	1.2
Air Taxi Passenger	Jet	C68A	0.5	0.0	0.5	0.0	1.0
Air Taxi Passenger	Jet	C700	0.2	0.0	0.2	0.0	0.4
Air Taxi Passenger	Non-Jet	BE20	0.0	0.2	0.0	0.2	0.5

Tower Category	Propulsion	Aircraft Type	Arrivals Day	Arrivals Night	Departures Day	Departures Night	Total
Air Taxi Passenger	Non-Jet	C208	1.3	0.0	1.2	0.0	2.5
Air Taxi Total	**-**	**-**	**3.8**	**0.4**	**3.5**	**0.7**	**8.4**
General Aviation	Jet	C25M	0.5	0.0	0.5	0.0	1.1
General Aviation	Jet	C56X	0.5	0.0	0.5	0.0	1.1
General Aviation	Jet	CL35	0.3	0.0	0.3	0.0	0.5
General Aviation	Jet	E55P	0.3	0.0	0.2	0.0	0.5
General Aviation	Jet	GLF4	0.4	0.0	0.4	0.0	0.8
General Aviation	Jet	GLF5	0.1	0.0	0.1	0.0	0.3
General Aviation	Jet	LJ35	0.5	0.0	0.5	0.0	1.1
General Aviation	Non-Jet	PC12	7.6	0.3	7.3	0.6	15.8
General Aviation Total	**-**	**-**	**10.2**	**0.3**	**9.9**	**0.7**	**21.0**
Grand Total	**-**	**-**	**1,151.0**	**168.1**	**1,179.6**	**139.5**	**2,638.3**

Note: Totals may not match exactly due to rounding.
Sources: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

The trip lengths flown from DFW for the Future (2036) Proposed Action Alternative are listed in **Table 2-25**.

Table 2-25. Modeled Departure Stage Length Distribution by Aircraft Type for Future (2036) Proposed Action Alternative

Propulsion	Aircraft Type	SL1	SL2	SL3	SL4	SL5	SL6	SL7	SL8	SL9	SLM
Jet	A20N	6.1%	63.6%	27.1%	3.2%	-	-	-	-	-	-
Jet	A21N	4.6%	53.3%	39.1%	0.8%	2.2%	-	-	-	-	-
Jet	A319	27.9%	49.5%	21.9%	0.8%	-	-	-	-	-	-
Jet	A320	19.6%	52.2%	28.1%	0.1%	-	-	-	-	-	-
Jet	A321	6.2%	59.9%	32.5%	1.1%	0.2%	-	-	-	-	-
Jet	A359	-	-	-	-	-	-	99.7%	0.3%	-	-
Jet	A35K	0.3%	1.3%	1.2%	-	2.3%	3.3%	-	23.5%	68.0%	-
Jet	A388	-	-	-	-	-	100.0%	-	-	-	-
Jet	B38M	14.8%	30.2%	46.6%	8.4%	-	-	-	-	-	-
Jet	B39M	3.9%	3.6%	92.5%	0.0%	-	-	-	-	-	-
Jet	B738	22.2%	45.8%	30.3%	1.7%	-	-	-	-	-	-
Jet	B739	7.2%	3.6%	89.3%	-	-	-	-	-	-	-
Jet	B748	-	55.4%	2.1%	-	42.6%	-	-	-	-	-
Jet	B763	22.5%	56.9%	20.6%	-	-	-	-	-	-	-
Jet	B77L	0.8%	20.7%	-	-	18.8%	30.4%	-	<0.1%	29.3%	-
Jet	B77W	0.6%	3.5%	2.4%	-	-	57.7%	-	14.5%	-	-
Jet	B788	0.8%	10.2%	10.2%	-	23.9%	18.9%	5.1%	30.7%	-	-
Jet	B789	0.4%	11.0%	4.1%	-	2.9%	27.5%	9.2%	20.0%	20.3%	4.6%
Jet	C25M	100.0%	-	-	-	-	-	-	-	-	-
Jet	C56X	100.0%	-	-	-	-	-	-	-	-	-
Jet	C68A	100.0%	-	-	-	-	-	-	-	-	-
Jet	C700	100.0%	-	-	-	-	-	-	-	-	-
Jet	CL35	100.0%	-	-	-	-	-	-	-	-	-
Jet	CRJ7	69.8%	30.1%	0.1%	-	-	-	-	-	-	-
Jet	CRJ9	53.5%	46.4%	0.2%	-	-	-	-	-	-	-
Jet	E170	77.3%	22.6%	0.1%	-	-	-	-	-	-	-
Jet	E190	-	93.9%	6.1%	-	-	-	-	-	-	-
Jet	E55P	100%	-	-	-	-	-	-	-	-	-
Jet	E75L	62.6%	36.0%	1.4%	-	-	-	-	-	-	-
Jet	GLF4	100%	-	-	-	-	-	-	-	-	-
Jet	GLF5	100%	-	-	-	-	-	-	-	-	-
Jet	LJ35	100%	-	-	-	-	-	-	-	-	-
Non-Jet	B190	100%	-	-	-	-	-	-	-	-	-
Non-Jet	BE20	100%	-	-	-	-	-	-	-	-	-
Non-Jet	BE99	100%	-	-	-	-	-	-	-	-	-
Non-Jet	C208	100%	-	-	-	-	-	-	-	-	-
Non-Jet	PC12	100%	-	-	-	-	-	-	-	-	-

Note: SL = Stage Length
Source: FAA OPSNET, FAA TAF, DFW Ops Memo, HMMH analysis, 2026

The proposed action would not alter the location or length of the runways, nor would it alter future runway use. Runway end utilization for the Future (2036) Proposed Action Alternative is expected to be the same as the Future (2031) No Action Alternative (see **Table 2-19)**.

3. Significance Thresholds and General Conformity

This section discusses the criteria and general methods used to evaluate the Proposed Project's significance with respect to air quality impacts under NEPA.

The emissions inventories are used to determine the projected net annual increase in emissions, and the potential impact to air quality in the vicinity of DFW due to the Proposed Project. The General Conformity Rule ensures that federal activities do not cause or contribute to a violation of NAAQS. The General Conformity process begins with an Applicability Analysis. If General Conformity applies, the Agency must prepare a General Conformity Determination. Then federal, state, and local air quality governance are engaged in a public review process of the agency's determination.

When performing a General Conformity applicability analysis, the FAA considers a range of factors, including:

- If action will occur in a Nonattainment or Maintenance Area
- If specific exemptions in the General Conformity Rule apply
- If the action is on the federal agency's list of "presumed to conform" activities
- If total emissions exceed General Conformity de minimis thresholds, and
- If a EPA-approved SIP has an emissions budget for which emissions with the action could be compared

If an action is not exempt or presumed to conform or found to cause emissions above applicable de minimis thresholds in any nonattainment or maintenance area, the agency must prepare a General Conformity Determination prior to taking the action.

For General Conformity purposes, this Supplemental EA evaluates annual construction and operational emissions associated with implementation of the CTA Expansion Project as modified by the Proposed Action. Construction emissions include activities evaluated in the original CTA Expansion Project EA, together with emissions resulting from the proposed Terminal F design modifications. Operational emissions include aircraft operations, APUs, GSE, and roadway traffic associated with aircraft operations and passenger activity under the No Action Alternative and Proposed Action Alternative.

The Proposed Action includes the Terminal F Garage and Ticketing Facility, roadway improvements, Terminal F concourse expansion, conversion of existing hardstands to contact gates at Terminal F, Skylink improvements, and associated apron improvements. Because DFW is located in the Dallas-Fort Worth 2008 8-hour ozone nonattainment area, which is classified as Severe-15[24,25], the applicable General Conformity pollutants are the

[24] Texas Commission on Environmental Quality (TCEQ). Dallas-Fort Worth: Current Attainment Status. The DFW 2008 8-hour ozone nonattainment area is classified as Severe Nonattainment, effective November 7, 2022, based on EPA's reclassification published at 87 FR 60926. See also EPA Green Book, 8-Hour Ozone (2008) Federal Register Notice Classification Changes, Dallas-Fort Worth, Texas, reclassified from Serious to Severe-15, effective November 7, 2022.

[25] U.S. Environmental Protection Agency (EPA). Green Book, 8-Hour Ozone (2008) Nonattainment Areas by State/County/Area. The EPA Green Book identifies Dallas County and Tarrant County, along with Collin, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, and Wise Counties, as part of the Dallas-Fort Worth, Texas 2008 8-hour ozone nonattainment area. Data current as of May 31, 2026.

ozone precursors VOC and NOX. The maximum annual Project-related construction and operational emissions of VOC and NOX are compared to the applicable Severe ozone nonattainment de minimis threshold of 25 tons per year[26] to determine whether a General Conformity determination is required and to support the evaluation of the Project's compliance with the CAA and consistency with the Texas SIP.

[26] 40 CFR § 93.153(b)(1). For ozone nonattainment areas, the General Conformity de minimis threshold for VOC and NOX is 25 tons per year for Severe nonattainment areas.

4. Results

Annual emissions were evaluated by calendar year for both construction and operational activities associated with the CTA Expansion Project as modified by the Proposed Action. Construction emissions from the original CTA Expansion Project EA were included for 2024 through 2028, and construction emissions associated with the proposed Terminal F design modifications and schedule changes were included for 2025 through 2032. Operational emissions associated with the original CTA Expansion Project EA were included beginning in 2026, and operational emissions associated with the Terminal F modifications were included beginning in 2027, based on the estimated year each project component would become operational.

For each calendar year, construction emissions and applicable operational emissions were summed for both the No Action Alternative and the Proposed Action Alternative. The annual net emissions increase was then calculated as the difference between the Proposed Action Alternative and No Action Alternative emissions. These annual net emissions increases were compared to the applicable General Conformity de minimis thresholds to determine whether a General Conformity Determination is required and to support the evaluation of the Project's compliance with the CAA and consistency with the Texas SIP.

Operational emissions were modeled in AEDT for the 2024 Existing Condition, 2031, and 2036 analysis years. AEDT was not run for each intervening calendar year; therefore, operational emissions for the intervening years were estimated by scaling the AEDT-modeled operational emissions results using linear interpolation. Specifically, operational emissions for 2025 through 2030 were interpolated between the 2024 and 2031 modeled emissions, and operational emissions for 2032 were interpolated between the 2031 and 2036 modeled emissions.

4.1 Construction Emissions Inventory

Proposed Project total construction emissions include both non-conforming elements and elements that are presumed to conform because they are included in the FAA's list of Presumed to Conform actions. Presumed to Conform project elements include the operation of two concrete batch plants and one asphalt batch plant. Batch plants are stationary sources of air emissions and will be permitted through the TCEQ New Source Review (NSR) permit program. The NSR permit process would be completed and approved for each batch plant before construction begins. Emissions from permitted stationary sources fall under the Presumed to Conform designation because they are accounted for in the SIP. All other project elements are absent from the Presumed to Conform list and require evaluation pursuant to the General Conformity Rule. **Table 4-1** presents CAP emissions associated with all construction elements of the Proposed Project by emissions source and year.

Table 4-1. Proposed Action Construction Phase CAP Emissions

Project Year	Emissions Source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
2024	On-Road	118	8	3.9	0.11	1.8	0.5
2024	Nonroad	3	7	0.5	0.01	0.5	0.5
2024	Fugitives	0	0	0.0	0.00	6.9	1.0
2024	**Total**	**122**	**16**	**4.5**	**0.12**	**9.2**	**2.1**
2025	On-Road	316	11	10.4	0.27	3.6	1.0
2025	Nonroad	6	15	0.9	0.02	1.0	0.9
2025	Fugitives	<1.0	<1.0	0.1	0.00	4.1	0.6

Project Year	Emissions Source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
2025	**Total**	**322**	**25**	**11.4**	**0.29**	**8.6**	**2.6**
2026	On-Road	105	8	3.4	0.12	1.9	0.6
2026	Nonroad	8	20	1.1	0.04	1.4	1.3
2026	Fugitives	2	<1.0	1.0	0.02	4.7	0.4
2026	**Total**	**115**	**28**	**5.6**	**0.18**	**8.0**	**2.3**
2027	On-Road	49	2	1.2	0.05	0.7	0.2
2027	Nonroad	6	14	0.8	0.03	1.0	0.9
2027	Fugitives	2	<1.0	1.2	0.02	3.8	0.3
2027	**Total**	**56**	**16**	**3.2**	**0.10**	**5.4**	**1.4**
2028	On-Road	39	1	0.9	0.04	0.5	0.1
2028	Nonroad	4	11	0.6	0.03	0.7	0.7
2028	Fugitives	1	<1.0	1.0	0.01	2.5	0.0
2028	**Total**	**44**	**12**	**2.5**	**0.08**	**3.7**	**0.9**
2029	On-Road	20	1	0.34	0.02	0.3	0.1
2029	Nonroad	3	8	0.5	0.03	0.5	0.5
2029	Fugitives	1	<1	0.9	0.01	2.2	0.0
2029	**Total**	**24**	**9**	**1.7**	**0.06**	**3.0**	**0.6**
2030	On-Road	16	1	0.3	0.01	0.2	0.1
2030	Nonroad	1	4	0.2	0.02	0.3	0.3
2030	Fugitives	1	<1	0.9	0.01	1.5	0.0
2030	**Total**	**18**	**5**	**1.5**	**0.04**	**1.9**	**0.3**
2031	On-Road	10	<1	0.2	0.01	0.1	0.0
2031	Nonroad	1	3	0.2	0.01	0.2	0.2
2031	Fugitives	1	<1	1.1	0.01	1.4	0.0
2031	**Total**	**12**	**4**	**1.4**	**0.04**	**1.8**	**0.3**
2032	On-Road	<1	<1	<0.1	0.00	0.0	0.0
2032	Nonroad	<1	<1	<0.1	0.00	<0.1	<0.1
2032	Fugitives	<1	<1	<0.1	0.00	<0.1	0.0
2032	**Total**	**1**	**<1**	**0.1**	**0.00**	**0.1**	**<0.1**

4.2 Operational Emission Inventory

4.2.1 Existing Aircraft Emissions Inventory

Total operational emissions are from aircraft operations, GSE, and APUs. AEDT default data for APU and GSE equipment and duration were used in the modeling. The Existing Conditions emission inventory provides aircraft emissions associated with taxi-in, taxi-out, and in-flight operations below the mixing height (AEDT default 3,000 feet). **Table 4-2** provides the operational emissions for all operations for the Existing Conditions.

Table 4-2. Total Aircraft Operational Emissions for Existing Conditions (2024)

Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
Aircraft	3,908	3,888	440	423	37.7	37.7	<0.01
APU	106	123	9	16	16.2	16.2	0.000
GSE	727	26	20	0.02	1.5	1.4	0.000
Total	4,741	4,037	468	439	55.4	55.3	**<0.01**

Notes: Emissions are in tons per year.

4.2.2 Future Aircraft Emissions Inventory

4.2.2.1 Future (2031) No Action Alternative

Total operational emissions are from aircraft operations, GSE, and APUs. AEDT default data for APU and GSE equipment and duration were used in the modeling. The No Action Alternative CAP emission inventory provides aircraft emissions associated with taxi-in, taxi-out, and in-flight operations below the mixing height (AEDT default 3,000 feet). **Table 4-3** provides the operational emissions for all 2031 No Action Alternative operations.

Table 4-3. Total Aircraft Operational Emissions for the 2031 No Action Alternative

Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
Aircraft	4,254	4,732	482	489	43.9	43.9	0
APU	120	150	10	20	19.2	19.2	0
GSE	907	51	119	0	3.1	3.0	0
Total	5,281	4,933	612	509	66.2	66.1	0

Note: Emissions are in tons per year.

4.2.2.2 Future (2031) Proposed Action Alternative

Total operational emissions are from aircraft operations, GSE, and APUs. AEDT default data for APU and duration were used in the modeling. The 2031 Proposed Action Alternative CAP emission inventory provides aircraft emissions associated with taxi-in, taxi-out, and in-flight operations below the mixing height (AEDT default 3,000 feet). **Table 4-4** provides the operational emissions for all operations for the 2031 Proposed Action Alternative.

Table 4-4. Total Aircraft Operational Emissions for the 2031 Proposed Action Alternative

Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
Aircraft	4,623	5,267	523	539	48.0	48.0	0
APU	137	166	12	22	21.7	21.7	0
GSE	983	54	129	<1	3.3	3.2	0
Total	5,742	5,487	664	562	73.0	72.9	0

Notes: Emissions are in Tons per year.

4.2.2.3 Future (2036) No Action Alternative

Total operational emissions are from aircraft operations, GSE, and APUs. AEDT default data for APU and duration were used in the modeling. The No Action Alternative CAP emission inventory provides aircraft emissions associated with taxi-in, taxi-out, and in-flight operations below the mixing height (AEDT default 3,000 feet). **Table 4-5** provides the operational emissions for all 2036 No Action Alternative operations.

Table 4-5. Total Aircraft Operational Emissions for the 2036 No Action Alternative

Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
Aircraft	4,165	5,353	360	496	27.3	27.3	0
APU	190	176	18	27	32.2	32.2	0
GSE	1,062	61	82	<1	3.8	3.6	0
Total	5,417	5,591	460	523	63.3	63.1	0

Notes: Emissions are in tons per year

4.2.2.4 Future (2036) Proposed Action Alternative

Total operational emissions are from aircraft operations, GSE, and APUs. AEDT default data for APU and duration were used in the modeling. The 2036 Proposed Action Alternative CAP emission inventory provides aircraft emissions associated with taxi-in, taxi-out, and in-flight operations below the mixing height (AEDT default 3,000 feet). **Table 4-6** provides the operational emissions for all operations for the 2036 Proposed Action Alternative.

Table 4-6. Total Aircraft Operational Emissions for the 2036 Proposed Action Alternative

Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
Aircraft	4,815	6,210	417	574	31.7	31.7	0
APU	220	205	21	31	37.3	37.3	0
GSE	1,233	69	94	<1	4.2	4.0	0
Total	6,269	6,484	532	606	73.2	73.0	0

Notes: Emissions are in Tons per year.

4.2.3 Change in Aircraft Operational Emissions

Changes between the 2031 Proposed Action Alternative emissions in **Table 4-4** and the 2031 No Action Alternative in **Table 4-3** and changes between the 2036 Proposed Action Alternative emissions in **Table 4-6** and the 2036 No Action Alternative in **Table 4-5** are a result of the additional passenger operations due to the Proposed Action. **Table 4-7** provides the comparison between the Future 2031 and 2036 NAA and the Proposed Action operational emissions.

Table 4-7. Net Change in Aircraft Operational Emissions due to the Proposed Action Alternative

Year	Emissions Source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
2031 (Proposed Action – No Action)	Aircraft	369	535	41	51	4.1	4.1	0
	APU	17	16	1	2	2.5	2.5	0
	GSE	76	3	9	<0.01	0.2	0.2	0
	Net Change	**462**	**554**	**52**	**53**	**6.8**	**6.8**	**0**
2036 (Proposed Action – No Action)	Aircraft	650	857	57	79	4.3	4.3	0
	APU	30	28	3	4	5.1	5.1	0
	GSE	171	8	13	<0.01	0.4	0.4	0
	Net Change	**852**	**893**	**72**	**83**	**9.9**	**9.9**	**0**

Notes: Emissions are in Tons per year.

4.2.4 Vehicle Traffic

The CAP emissions inventory for vehicle traffic for the Existing Conditions is provided in **Table 4-8**, while the No Action Alternative and the Proposed Project emission inventories are provided in **Table 4-9.** The net operational CAP emissions (i.e., Proposed Action less No Action emissions) for vehicle traffic quantify the incremental operational emissions increases estimated to occur for the Proposed Project.

Table 4-8. Existing Conditions Vehicle Traffic CAP Emissions Inventory

Scenario	CO	NOx	VOC	SO2	PM_{10}	$PM_{2.5}$
2024 Existing Conditions	2,641	217	79	2	40	14

Table 4-9. Operational Phase Vehicle Traffic CAP Emissions Inventory

Scenario	CO	NOx	VOC	SO2	PM_{10}	$PM_{2.5}$
2031 No Action	2,086	140	67	1.8	36	12
2031 Proposed Action	2,273	152	73	1.9	39	13
2031 Net Change	**187**	**13**	**6**	**0.2**	**3**	**1**
2036 No Action	1,385	92	49	1.2	33	11
2036 Proposed Action	1,613	107	57	1.5	39	13
2036 Net Change	**228**	**15**	**8**	**0.2**	**6**	**2**

Notes: Emissions are in Tons per year.

4.3 All Operational Sources Summary

The CAP emissions inventory for the Existing Conditions, No Action Alternative, and the Proposed Action Alternative are provided in **Table 4-10**, **Table 4-11** and **Table 4-12**, respectively. **Table 4-13** shows the net operational CAP emissions (i.e., Proposed Action less No Action emissions) to quantify the incremental operational emissions increases estimated to occur for the Proposed Project. Aircraft, GSE, APUs, and vehicle traffic emissions are all expected to increase under the Proposed Action relative to the No Action Alternative.

Table 4-10. Existing Conditions Operational Phase CAP Emissions Inventory

Project Year	Emissions Source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
2024	Aircraft	3,908	3,888	440	423	38	38	0.002
2024	APU	106	123	9	16	16	16	0.000
2024	GSE	727	26	20	<1	1	1	0.000
2024	Traffic	2,641	217	79	2	40	14	0.000
2024	**Total**	**7,382**	**4,254**	**547**	**442**	**96**	**70**	**0.002**

Notes: Emissions are in Tons per year.

Table 4-11. No Action CAP Emissions Inventory

Project Year	Emissions Source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
2025	Aircraft[a]	3,957	4,009	446	432	39	39	0.002
2025	APU	108	127	9	17	17	17	0.000
2025	GSE	760	42	38	<1	3	2	0.000
2025	Traffic	2,561	206	78	2	40	14	0.000
2025	**Total**	**7,387**	**4,384**	**570**	**451**	**97**	**72**	**0.002**
2026	Aircraft[a]	4,007	4,129	452	442	39	39	0.002
2026	APU	110	131	9	17	17	17	0.000
2026	GSE	784	43	51	<1	3	3	0.000
2026	Traffic	2,482	195	76	2	39	14	0.000
2026	**Total**	**7,383**	**4,498**	**588**	**461**	**98**	**73**	**0.002**
2027	Aircraft[a]	4,056	4,250	458	451	40	40	0.001
2027	APU	112	134	9	18	17	17	0.000
2027	GSE	809	45	65	<1	3	3	0.000
2027	Traffic	2,403	184	74	2	38	13	0.000
2027	**Total**	**7,380**	**4,613**	**606**	**471**	**99**	**74**	**0.001**
2028	Aircraft[a]	4,106	4,371	464	461	41	41	0.001
2028	APU	114	138	10	18	18	18	0.000
2028	GSE	833	46	79	0	3	3	0.000
2028	Traffic	2,324	173	72	2	38	13	0.000

Project Year	Emissions Source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
2028	**Total**	**7,377**	**4,728**	**624**	**481**	**100**	**75**	**0.001**
2029	Aircraft[a]	4,155	4,491	470	470	42	42	0.001
2029	APU	116	142	10	19	18	18	0.000
2029	GSE	858	48	92	<1	3	3	0.000
2029	Traffic	2,244	162	71	2	37	13	0.000
2029	**Total**	**7,373**	**4,843**	**643**	**491**	**100**	**76**	**0.001**
2030	Aircraft[a]	4,205	4,612	476	479	43	43	0.000
2030	APU	118	146	10	19	19	19	0.000
2030	GSE	882	49	106	<1	3	3	0.000
2030	Traffic	2,165	151	69	2	36	13	0.000
2030	**Total**	**7,370**	**4,958**	**661**	**501**	**101**	**77**	**0.000**
2031	Aircraft	4,254	4,732	482	489	44	44	0.000
2031	APU	120	150	10	20	19	19	0.000
2031	GSE	907	51	119	<1	3	3	0.000
2031	Traffic	2,086	140	67	2	36	12	0.000
2031	**Total**	**7,366**	**5,072**	**679**	**511**	**102**	**78**	**0.000**
2032	Aircraft[b]	4,236	4,857	457	490	41	41	0.000
2032	APU	134	155	12	21	22	22	0.000
2032	GSE	938	53	112	<1	3	3	0.000
2032	Traffic	1,946	130	64	2	35	12	0.000
2032	**Total**	**7,254**	**5,194**	**645**	**513**	**101**	**77**	**0.000**
2033	Aircraft[b]	4,219	4,981	433	492	37	37	0.000
2033	APU	148	160	13	23	24	24	0.000
2033	GSE	969	55	104	<1	3	3	0.000
2033	Traffic	1,806	120	60	2	35	12	0.000
2033	**Total**	**7,141**	**5,316**	**611**	**516**	**100**	**77**	**0.000**
2034	Aircraft[b]	4,201	5,105	409	493	34	34	0.000
2034	APU	162	166	15	24	27	27	0.000
2034	GSE	1,000	57	97	<1	4	3	0.000
2034	Traffic	1,665	111	56	1	34	11	0.000
2034	**Total**	**7,028**	**5,438**	**577**	**519**	**99**	**76**	**0.000**
2035	Aircraft[b]	4,183	5,229	385	494	31	31	0.000
2035	APU	176	171	17	26	30	30	0.000
2035	GSE	1,031	59	89	<1	4	3	0.000
2035	Traffic	1,525	101	53	1	34	11	0.000
2035	**Total**	**6,915**	**5,560**	**543**	**521**	**98**	**75**	**0.000**
2036	Aircraft	4,165	5,353	360	496	27	27	0.000
2036	APU	190	176	18	27	32	32	0.000
2036	GSE	1,062	61	82	<1	4	4	0.000
2036	Traffic	1,385	92	49	1	33	11	0.000
2036	**Total**	**6,802**	**5,682**	**509**	**524**	**97**	**74**	**0.000**

Notes: Emissions are in Tons per year

[a] 2025 through 2030 operational phase emissions are linear interpolations of 2024 and 2031 emissions for use in comparison to General Conformity de minimis thresholds.

[b] 2032 through 2035 operational phase emissions are linear interpolations of 2031 and 2036 emissions for use in comparison to General Conformity de minimis thresholds.

Table 4-12. Proposed Project Operational Phase CAP Emissions Inventory

Project Year	Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
2025	Aircraft[a]	4,010	4,085	451	440	39	39	0.002
2025	APU	111	129	9	17	17	17	0.000
2025	GSE	771	42	39	<1	3	3	0.000
2025	Traffic	2,588	208	79	2	40	14	0.000
2025	**Total**	7,479	4,465	578	459	99	73	0.002
2026	Aircraft[a]	4,112	4,282	463	456	41	41	0.002
2026	APU	115	135	10	18	18	18	0.000
2026	GSE	806	44	54	<1	3	3	0.000
2026	Traffic	2,536	199	78	2	40	14	0.000
2026	**Total**	7,569	4,660	605	476	101	75	0.002
2027	Aircraft[a]	4,214	4,479	475	473	42	42	0.001
2027	APU	119	141	10	19	19	19	0.000
2027	GSE	841	46	69	<1	3	3	0.000
2027	Traffic	2,483	189	77	2	40	14	0.000
2027	**Total**	7,658	4,856	631	494	103	77	0.001
2028	Aircraft[a]	4,316	4,676	487	490	44	44	0.001
2028	APU	124	147	11	20	19	19	0.000
2028	GSE	877	48	84	<1	3	3	0.000
2028	Traffic	2,431	180	76	2	39	14	0.000
2028	**Total**	7,747	5,052	658	511	105	80	0.001
2029	Aircraft[a]	4,419	4,873	499	506	45	45	0.001
2029	APU	128	153	11	21	20	20	0.000
2029	GSE	912	50	99	<1	3	3	0.000
2029	Traffic	2,378	171	75	2	39	14	0.000
2029	**Total**	7,837	5,247	684	529	107	82	0.001
2030	Aircraft[a]	4,521	5,070	511	523	47	47	0.000
2030	APU	132	160	11	21	21	21	0.000
2030	GSE	947	52	114	<1	3	3	0.000
2030	Traffic	2,326	161	74	2	39	13	0.000
2030	**Total**	7,926	5,443	711	546	110	84	0.000
2031	Aircraft	4,623	5,267	523	539	48	48	0.000
2031	APU	137	166	12	22	22	22	0.000
2031	GSE	983	54	129	<1	3	3	0.000
2031	Traffic	2,273	152	73	2	39	13	0.000
2031	**Total**	8,015	5,639	737	564	112	86	0.000
2032	Aircraft[b]	4,662	5,456	502	546	45	45	0.0000
2032	APU	153	173	14	24	25	25	0.0000
2032	GSE	1,033	57	122	<1	4	3	0.0000
2032	Traffic	2,141	143	70	2	39	13	0.0000
2032	**Total**	7,989	5,829	708	572	112	86	0.0000
2033	Aircraft[b]	4,700	5,644	481	553	41	41	0.0000
2033	APU	170	181	16	26	28	28	0.0000
2033	GSE	1,083	60	115	<1	4	3	0.0000
2033	Traffic	2,009	134	67	2	39	13	0.0000
2033	**Total**	7,962	6,019	678	581	112	86	0.0000
2034	Aircraft[b]	4,739	5,833	459	560	38	38	0.0000

Project Year	Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
2034	APU	187	189	17	28	31	31	0.0000
2034	GSE	1,133	63	108	<1	4	4	0.0000
2034	Traffic	1,877	125	64	2	39	13	0.0000
2034	**Total**	7,935	6,210	648	590	112	86	0.0000
2035	Aircraft[b]	4,777	6,021	438	567	35	35	0.0000
2035	APU	203	197	19	29	34	34	0.0000
2035	GSE	1,183	66	101	<1	4	4	0.0000
2035	Traffic	1,745	116	60	2	39	13	0.0000
2035	**Total**	7,909	6,400	619	598	112	86	0.0000
2036	Aircraft	4,815	6,210	417	574	32	32	0.0000
2036	APU	220	205	21	31	37	37	0.0000
2036	GSE	1,233	69	94	<1	4	4	0.0000
2036	Traffic	1,613	107	57	1	39	13	0.0000
2036	**Total**	7,882	6,590	589	607	112	86	0.0000

Notes: Emissions are in Tons per year

[a] 2025 through 2030 operational phase emissions are linear interpolations of 2024 and 2031 emissions for use in comparison to General Conformity de minimis thresholds.

[b] 2032 operational phase emissions are linear interpolations of 2031 and 2036 emissions for use in comparison to General Conformity de minimis thresholds.

Table 4-13. Net Operational Phase CAP Emissions Inventory

Project Year	Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
2025	Aircraft[a]	53	76	6	7.2	0.6	0.6	0
2025	APU	2	2	0	0.3	0.4	0.4	0
2025	GSE	11	<1	1	<0.1	<0.1	<0.1	0
2025	Traffic	27	2	1	<0.1	0.5	0.2	0
2025	**Total**	**93**	**81**	**8**	**7.6**	**1.4**	**1.1**	**0**
2026	Aircraft[a]	105	153	12	14.4	1.2	1.2	0
2026	APU	5	5	<0.1	0.6	0.7	0.7	0
2026	GSE	22	1	3	<0.1	0.1	0.1	0
2026	Traffic	54	4	2	<0.1	0.9	0.3	0
2026	**Total**	**185**	**162**	**17**	**15.1**	**2.9**	**2.3**	**0**
2027	Aircraft[a]	158	229	18	21.7	1.8	1.8	0
2027	APU	7	7	1	0.9	1.1	1.1	0
2027	GSE	32	1	4	<0.1	0.1	0.1	0
2027	Traffic	80	5	3	0.1	1.4	0.5	0
2027	**Total**	**278**	**243**	**25**	**22.7**	**4.3**	**3.4**	**0**
2028	Aircraft[a]	211	306	24	28.9	2.3	2.3	0
2028	APU	10	9	1	1.2	1.4	1.4	0
2028	GSE	43	2	5	<0.1	0.1	0.1	0
2028	Traffic	107	7	3	0.1	1.8	0.6	0
2028	**Total**	**371**	**324**	**33**	**30.2**	**5.7**	**4.5**	**0**
2029	Aircraft[a]	264	382	30	36.1	2.9	2.9	0
2029	APU	12	11	1	1.5	1.8	1.8	0
2029	GSE	54	2	7	<0.1	0.1	0.1	0
2029	Traffic	134	9	4	0.1	2.3	0.8	0
2029	**Total**	**464**	**405**	**42**	**37.8**	**7.1**	**5.6**	**0**
2030	Aircraft[a]	316	458	35	43.3	3.5	3.5	0

Project Year	Emissions source	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Lead
2030	APU	14	14	1	1.8	2.2	2.2	0
2030	GSE	65	3	8	<0.1	0.2	0.2	0
2030	Traffic	161	11	5	0.1	2.7	0.9	0
2030	**Total**	**556**	**486**	**50**	**45.3**	**8.6**	**6.8**	**0**
2031	Aircraft	369	535	41	50.6	4.1	4.1	0
2031	APU	17	16	1	2.1	2.5	2.5	0
2031	GSE	76	3	9	<0.1	0.2	0.2	0
2031	Traffic	187	13	6	0.2	3.2	1.1	0
2031	**Total**	**649**	**566**	**58**	**52.9**	**10.0**	**7.9**	**0**
2032	Aircraft[b]	425	599	44	56.2	4.1	4.1	0
2032	APU	20	18	2	2.6	3.1	3.1	0
2032	GSE	95	4	10	<0.1	0.2	0.2	0
2032	Traffic	196	13	6	0.2	3.7	1.2	0
2032	**Total**	**735**	**635**	**63**	**58.9**	**11.1**	**8.7**	**0**
2033	Aircraft[b]	481	664	48	62	4	4	0
2033	APU	22	21	2	3	4	4	0
2033	GSE	114	5	11	<0.1	0	0	0
2033	Traffic	204	14	7	0	4	1	0
2033	**Total**	**821**	**703**	**67**	**65**	**12**	**9**	**0**
2034	Aircraft[b]	538	728	51	67	4	4	0
2034	APU	25	23	2	3	4	4	0
2034	GSE	133	6	11	<0.1	0	0	0
2034	Traffic	212	14	7	0	5	2	0
2034	**Total**	**908**	**771**	**71**	**71**	**13**	**10**	**0**
2035	Aircraft[b]	594	792	54	73	4	4	0
2035	APU	28	26	3	4	5	5	0
2035	GSE	152	7	12	<0.1	0	0	0
2035	Traffic	220	15	8	0	5	2	0
2035	**Total**	**994**	**840**	**76**	**77**	**14**	**11**	**0**
2036	Aircraft	650	857	57	78.6	4.3	4.3	0
2036	APU	30	28	3	4.3	5.1	5.1	0
2036	GSE	171	8	13	<0.1	0.4	0.4	0
2036	Traffic	228	15	8	0.2	5.5	1.8	0
2036	**Total**	**1,080**	**908**	**80**	**83.2**	**15.4**	**11.7**	**0**

Notes: Emissions are in tons per year

[a] 2025 through 2030 operational phase emissions are linear interpolations of 2024 and 2031 emissions for use in comparison to General Conformity de minimis thresholds.

[b] 2032 through 2035operational phase emissions are linear interpolations of 2031 and 2036 emissions for use in comparison to General Conformity de minimis thresholds.

4.4 General Conformity De Minimis Thresholds

Annual net emissions of, NOx and VOC were evaluated for each calendar year in which construction and/or operational emissions associated with the CTA Expansion Project as modified by the Proposed Action would occur. The analysis includes construction emissions from the original CTA Expansion Project EA for 2024 through 2028, construction emissions associated with the proposed Terminal F design modifications for 2025 through 2032, operational emissions associated with the original CTA Expansion Project EA beginning in 2026, and operational emissions associated with the Terminal F modifications beginning in 2027. These annual construction and operational emissions were combined for each year and compared to the General Conformity

de minimis thresholds for both NOX and VOC to identify the years in which the net emissions increases would exceed the applicable thresholds.

As shown in **Table 4-14**, the combined construction and operational net emissions exceed the applicable de minimis threshold under the current Severe-15 designation for the Dallas-Fort Worth Ozone Nonattainment Area for NOx each year from 2025 to 2036 and for VOCs from 2027 through 2036.

Table 4-14. Combined Construction and Operational Emissions Compared to De Minimis Thresholds

Project Year	Project Emissions NOx (short tons/yr)	Project Emissions VOC (short tons/yr)	General Conformity De Minimis Threshold NOx (short tons/yr)	General Conformity De Minimis Threshold VOC (short tons/yr)	Project Emissions less than General Conformity De Minimis Threshold? NOx	Project Emissions less than General Conformity De Minimis Threshold? VOC
2024	15.9	4.4	25	25	Yes	Yes
2025	25.5	11.4	25	25	No	Yes
2026	189.5	22.3	25	25	No	Yes
2027	258.7	28.1	25	25	No	No
2028	335.8	35.8	25	25	No	No
2029	413.3	43.4	25	25	No	No
2030	490.1	51.4	25	25	No	No
2031	570.4	59.8	25	25	No	No
2032	634.9	62.8	25	25	No	No
2033	703	67.1	25	25	No	No
2034	771.2	71.5	25	25	No	No
2035	839.5	75.9	25	25	No	No
2036	907.8	80.3	25	25	No	No

4.5 Project Alternatives

Under the No Action Alternative, DFW would not implement the proposed CTA Expansion and design modifications to Terminal F. The No Action Alternative would not involve any construction activities; therefore, there would be no construction emissions. With the No Action Alternative, the terminals would continue to deteriorate, and the airport would be ill-equipped to meet growing travel demand. The emissions impacts under the No Action Alternative were discussed above.

4.6 General Conformity Determination

The results from the emission inventory indicate that the construction emissions from the Proposed Project will trigger an exceedance of de minimis thresholds for NOx and the operational emissions from the Proposed Project will trigger an exceedance of de minimis thresholds for both NOX and VOCs. DFW must prepare a General Conformity Determination for the Proposed Project. In accordance with Section 176(c) of the CAA and EPA's General Conformity regulations,[27] conformity with the applicable SIP must be demonstrated for each year in which annual emissions associated with the Proposed Project exceed the applicable de minimis thresholds.

[27] 40 CFR Part 93, Subpart B

EPA's General Conformity regulations provide four methods for demonstrating conformity, as described below.[28]

1. The total direct and indirect emissions from the action are specifically identified and accounted for in the federally approved SIP; or
2. All direct and indirect emissions are fully offset such that there is no net increase of emissions of the pollutant or its precursors; or
3. The Proposed Project will not cause or contribute to a NAAQS violation in the area based on area-wide or local air quality modeling, and it will not increase the frequency or severity of any existing violation; or
4. State/local agency agrees to revise the SIP to accommodate the action's emissions.

A memorandum to the General Conformity Determination will be prepared because annual emissions from the Proposed Project exceed General Conformity de minimis thresholds (for severe ozone nonattainment areas) for NOx (from 2025, through 2036) and VOCs (from 2027 through 2036). The memorandum will discuss the changes in project-related emissions and revalidate the approach used to meet General Conformity requirements as previously approved by FAA and TCEQ.

[28] 40 CFR §93.158(a)(1)

Appendix A: DFW CTA Expansion Project Construction Activity Data and Emission Rates

Table A1. DFW CTA Expansion Project 2024 NONROAD Activity, Emission Rates, Total Emissions

Table A2. DFW CTA Expansion Project 2025 NONROAD Activity, Emission Rates, Total Emissions

Table A3. DFW CTA Expansion Project 2026 NONROAD Activity, Emission Rates, Total Emissions

Table A4. DFW CTA Expansion Project 2027 NONROAD Activity, Emission Rates, Total Emissions

Table A5. DFW CTA Expansion Project 2028 NONROAD Activity, Emission Rates, Total Emissions

Table A6. DFW CTA Expansion Project 2024 ONROAD Activity, Emission Rates, Total Emissions

Table A7. DFW CTA Expansion Project 2025 ONROAD Activity, Emission Rates, Total Emissions

Table A8. DFW CTA Expansion Project 2026 ONROAD Activity, Emission Rates, Total Emissions

Table A9. DFW CTA Expansion Project 2027 ONROAD Activity, Emission Rates, Total Emissions

Table A10. DFW CTA Expansion Project 2027 ONROAD Activity, Emission Rates, Total Emissions

Table A11. DFW CTA Expansion Project Fugitive Dust, Emission Rates, Total Emissions for all analysis years

Appendix B: Terminal F Design Modifications Construction Activity Data and Emission Rates

Table B1. Terminal F Design Modifications 2025 ONROAD, NONROAD, Fugitive Dust Activity, Emission Rates, Total Emissions

Table B2. Terminal F Design Modifications 2026 ONROAD, NONROAD, Fugitive Dust Activity, Emission Rates, Total Emissions

Table B3. Terminal F Design Modifications ONROAD, NONROAD, Fugitive Dust Activity, Emission Rates, Total Emissions

Table B4. Terminal F Design Modifications 2028 ONROAD, NONROAD, Fugitive Dust Activity, Emission Rates, Total Emissions

Table B5. Terminal F Design Modifications 2029 ONROAD, NONROAD, Fugitive Dust Activity, Emission Rates, Total Emissions

Table B6. Terminal F Design Modifications 2030 ONROAD, NONROAD, Fugitive Dust Activity, Emission Rates, Total Emissions

Table B7. Terminal F Design Modifications 2031 ONROAD, NONROAD, Fugitive Dust Activity, Emission Rates, Total Emissions

Table B8. Terminal F Design Modifications 2032 ONROAD, NONROAD, Fugitive Dust Activity, Emission Rates, Total Emissions

Appendix C: Operational On-Rood Activity Data and Emission Rates

Table C1. 2024 Operational Traffic Emissions

Table C2. 2031 No Action Operational Traffic Emissions

Table C3. 2031 Proposed Action Operational Traffic Emissions

Table C4. 2036 No Action Operational Traffic Emissions

Table C5. 2036 Proposed Action Operational Traffic Emissions

2026 NONROAD Construction Emissions

Appendix A. Detailed Construction Phase Nonroad Emissions Data

Table A3. Nonroad Equipment Construction Activity

All equipment is assumed to use NONROAD Diesel Fuel

Project	Equipment Type	TEXN2.6 Lookup	TEXN2.6 Lookup	Average Horsepower	Load Factor	Total Hours	Total Horsepower -Hours	Horsepower -Hours 2026	MOVES Emissions Rates						Total Emissions (Tons Per Year)					
									3	4	11	7	14	15						
									CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Goods/Services Dock	Chain Saw	Other Construction Equipment	Other Construction Equipment11	11	0.42	58	634	0.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0	0	0	0	0	0
Goods/Services Dock	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	100	0.43	58	5,760	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Goods/Services Dock	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	197	34,521	0.00	0.1710414	0.475489	0.03011	0.001381	0.040299	0.03909	0	0	0	0	0	0
Terminal A	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	948	71,100	0.00	0.9348789	2.551136	0.181378	0.002136	0.12504	0.121289	0	0	0	0	0	0
Terminal A	Excavator with Bucket	Excavators	Excavators175	175	0.38	474	82,950	0.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0	0	0	0	0	0
Terminal A	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	474	18,960	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Terminal C	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	2,610	195,750	167850.00	0.9348789	2.551136	0.181378	0.002136	0.12504	0.121289	0.064001	0.174648	0.012416933	0.000146225	0.008560125	0.008303321
Terminal C	Excavator with Bucket	Excavators	Excavators175	175	0.38	1,305	228,375	195825.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0.01184	0.034557	0.00197964	0.000118025	0.002888871	0.002802205
Terminal C	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,305	52,200	44760.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.0048	0.033981	0.001440073	2.63956E-05	0.00050433	0.0004892
Terminal C Garage	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	16,800	1,260,000	0.00	0.9348789	2.551136	0.181378	0.002136	0.12504	0.121289	0	0	0	0	0	0
Terminal C Garage	Excavator with Bucket	Excavators	Excavators175	175	0.38	9,334	1,633,392	0.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0	0	0	0	0	0
Terminal C Garage	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	8,400	336,000	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Terminal C Garage	Excavator with Hoe Ram	Excavators	Excavators175	175	0.38	934	163,392	0.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0	0	0	0	0	0
Terminal E	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	227	9,089	665.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.000136	0.000961	4.07199E-05	7.4637E-07	1.42606E-05	1.38327E-05
Terminal E	Excavator	Excavators	Excavators175	175	0.38	234	41,008	4153.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0.000251	0.000733	4.19836E-05	2.50305E-06	6.12663E-05	5.94284E-05
Terminal E	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	283	49,491	12636.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0.00246	0.00657	0.000442017	9.17635E-06	0.00057925	0.000561873
Terminal F	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	338	25,380	0.00	0.9348789	2.551136	0.181378	0.002136	0.12504	0.121289	0	0	0	0	0	0
Terminal F	Chain Saws	Other Construction Equipment	Other Construction Equipment11	11	0.53	80	880	0.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0	0	0	0	0	0
Terminal F	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	3,709	148,353	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Terminal F	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	1,098	192,146	0.00	0.1710414	0.475489	0.03011	0.001381	0.040299	0.03909	0	0	0	0	0	0
Terminal F	Excavator	Excavators	Excavators175	175	0.38	3,739	654,255	0.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0	0	0	0	0	0
Terminal F	Excavator with Bucket	Excavators	Excavators175	175	0.38	169	29,610	0.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0	0	0	0	0	0
Terminal F	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	169	6,768	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Terminal F	Grader	Graders	Graders300	300	0.41	125	37,640	0.00	0.3389044	0.997013	0.080621	0.001392	0.054333	0.052703	0	0	0	0	0	0
Terminal F	Hydraulic Hammer	Other Construction Equipment	Other Construction Equipment175	175	0.31	3,117	545,496	0.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0	0	0	0	0	0
Terminal F	Mulcher	Other Construction Equipment	Other Construction Equipment100	100	0.42	80	8,000	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Terminal F	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	4,898	857,192	0.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0	0	0	0	0	0
Terminal F	Roller	Rollers	Rollers100	100	0.38	804	80,430	0.00	1.2804979	1.945338	0.147754	0.001932	0.201564	0.195517	0	0	0	0	0	0
Terminal F	Scraper	Scrapers	Scrapers600	600	0.42	508	305,070	0.00	0.3385809	0.807662	0.04762	0.001356	0.052949	0.051361	0	0	0	0	0	0
Terminal F	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	221	16,549	0.00	0.1537169	2.064778	0.041034	0.001883	0.014872	0.014426	0	0	0	0	0	0
Batch Plant Terminal A/C	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,038	623,004	280395.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0.020467	0.052486	0.00306214	0.000165546	0.003563054	0.003456163
Batch Plant Terminal A/C	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	1,558	62,300	28040.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.005141	0.036395	0.001542363	2.82706E-05	0.000540153	0.000523948
Batch Plant Terminal A/C	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	1,038	77,876	35049.00	0.1537169	2.064778	0.041034	0.001883	0.014872	0.014426	0.002197	0.029516	0.000586583	2.69174E-05	0.000212598	0.00020622
Batch Plant Terminal A/C	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes300	300	0.42	1,038	311,502	140198.00	0.3514129	0.651156	0.096215	0.001453	0.066543	0.064547	0.022809	0.042265	0.006245096	9.43122E-05	0.004319176	0.0041896
Batch Plant Terminal E/F	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	639	383,516	60199.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0.004394	0.011268	0.000657422	3.55416E-05	0.000764965	0.000742016
Batch Plant Terminal E/F	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	959	38,352	6020.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.001104	0.007814	0.000331135	6.0695E-06	0.000115967	0.000112488
Batch Plant Terminal E/F	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	639	47,939	7525.00	0.1537169	2.064778	0.041034	0.001883	0.014872	0.014426	0.000472	0.006337	0.000125939	5.77916E-06	4.56446E-05	4.42752E-05
Batch Plant Terminal E/F	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes300	300	0.42	639	191,758	30100.00	0.3514129	0.651156	0.096215	0.001453	0.066543	0.064547	0.004897	0.009074	0.001340799	2.02485E-05	0.000927311	0.000899492
Goods/Services Dock	40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	16	4,800	0.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0	0	0	0	0	0
Goods/Services Dock	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	5	463	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Goods/Services Dock	Auger Drill	Other Construction Equipment	Other Construction Equipment175	175	0.42	24	4,200	0.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0	0	0	0	0	0
Goods/Services Dock	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	800	80,000	0.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0	0	0	0	0	0
Goods/Services Dock	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	24	1,800	0.00	0.9348789	2.551136	0.181378	0.002136	0.12504	0.121289	0	0	0	0	0	0
Goods/Services Dock	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	200	120,000	0.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0	0	0	0	0	0
Goods/Services Dock	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	5	185	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Goods/Services Dock	Curb/Gutter Paver	Pavers	Pavers175	175	0.42	20	3,500	0.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0	0	0	0	0	0
Goods/Services Dock	Excavator	Excavators	Excavators175	175	0.38	127	22,281	0.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0	0	0	0	0	0
Goods/Services Dock	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	1,844	184,400	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Goods/Services Dock	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	24	2,400	0.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0	0	0	0	0	0
Goods/Services Dock	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	616	61,600	0.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0	0	0	0	0	0
Goods/Services Dock	Hydroseeder	Other Construction Equipment	Other Construction Equipment600	600	0.42	2	1,071	0.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0	0	0	0	0	0
Goods/Services Dock	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	39	6,776	0.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0	0	0	0	0	0
Goods/Services Dock	Off-Road Truck	Off-highway Trucks	Off-highway Trucks600	600	0.38	2	1,071	0.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0	0	0	0	0	0
Goods/Services Dock	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	118	20,651	0.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0	0	0	0	0	0
Goods/Services Dock	Paving Machine	Pavers	Pavers175	175	0.42	32	5,600	0.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0	0	0	0	0	0
Goods/Services Dock	Pumps	Other Construction Equipment	Other Construction Equipment11	11	0.43	2	18	0.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0	0	0	0	0	0
Goods/Services Dock	Roller	Rollers	Rollers100	100	0.38	146	14,617	0.00	1.2804979	1.945338	0.147754	0.001932	0.201564	0.195517	0	0	0	0	0	0
Goods/Services Dock	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	5	809	0.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0	0	0	0	0	0
Goods/Services Dock	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	33	2,490	0.00	0.1537169	2.064778	0.041034	0.001883	0.014872	0.014426	0	0	0	0	0	0
Goods/Services Dock	Slip Form Paver	Pavers	Pavers175	175	0.42	5	809	0.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0	0	0	0	0	0
Goods/Services Dock	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	5	116	0.00	1.2674525	3.167056	0.29969	0.00233	0.14459	0.140252	0	0	0	0	0	0
Goods/Services Dock	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	44	4,387	0.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0	0	0	0	0	0
Goods/Services Dock	90 Ton Crane	Cranes	Cranes300	300	0.29	400	120,000	0.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0	0	0	0	0	0
Goods/Services Dock	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	24	264	0.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0	0	0	0	0	0
Goods/Services Dock	Grout Mixer for Mortar	Other Construction Equipment	Other Construction Equipment600	600	0.43	240	144,000	0.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0	0	0	0	0	0
Goods/Services Dock	High Lift Fork Truck	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.20	400	40,000	0.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0	0	0	0	0	0

Goods/Services Dock	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	1,300	97,500	0.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0	0	0	0	0	0
Goods/Services Dock	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	240	18,000	0.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0	0	0	0	0	0
Goods/Services Dock	Masonry Saw	Other Construction Equipment	Other Construction Equipment40	40	0.53	240	9,600	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Goods/Services Dock	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	54	32,400	0.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0	0	0	0	0	0
Goods/Services Dock	Concrete Truck Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	57	627	0.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0	0	0	0	0	0
Goods/Services Dock	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	12	480	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Goods/Services Dock	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	80	48,000	0.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0	0	0	0	0	0
Goods/Services Dock	Scraper	Scrapers	Scrapers600	600	0.42	139	83,250	0.00	0.3385809	0.807662	0.04762	0.001356	0.052949	0.051361	0	0	0	0	0	0
Terminal A	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	855	149,665	72057.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0.014027	0.037464	0.002520608	5.23283E-05	0.003303185	0.003204088
Terminal A	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	176	13,229	895.00	0.1537169	2.064778	0.041034	0.001883	0.014872	0.014426	5.61E-05	0.000754	1.49788E-05	6.87355E-07	5.42883E-06	5.26596E-06
Terminal A	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	203	20,340	2545.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.000856	0.001306	0.00012732	2.11592E-06	0.000125291	0.000121532
Terminal A	40 Ton Crane	Cranes	Cranes300	300	0.29	6,240	1,872,000	0.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0	0	0	0	0	0
Terminal A	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	21,584	2,158,364	265608.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0.065631	0.099057	0.006382702	0.00010939	0.010432513	0.01011953
Terminal A	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,408	140,844	25608.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.008612	0.013144	0.001281099	2.12906E-05	0.001260685	0.001222864
Terminal A	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	264	158,400	28800.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0.002102	0.005391	0.000314519	1.70036E-05	0.000365969	0.00035499
Terminal A	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,446	57,856	9600.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.001029	0.007288	0.000308863	5.66126E-06	0.000108167	0.000104922
Terminal A	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	5,312	531,244	73608.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0.014149	0.031059	0.001170717	4.63572E-05	0.002263278	0.00219538
Terminal A	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	20,910	1,568,280	180000.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0.030848	0.14202	0.005062687	0.000109141	0.003559258	0.003452479
Terminal A	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	106	7,920	1440.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0.000247	0.001136	4.05015E-05	8.73127E-07	2.84741E-05	2.76198E-05
Terminal A	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	161	16,092	4032.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0.001544	0.002331	0.000150181	2.57389E-06	0.000245471	0.000238107
Terminal A	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	161	6,437	1613.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.000329	0.002331	9.87686E-05	1.81037E-06	3.45899E-05	3.35522E-05
Terminal A	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	300	52,570	15369.00	0.1710414	0.475489	0.03011	0.001381	0.040299	0.03909	0.001246	0.003464	0.000219348	1.00598E-05	0.000293573	0.000284766
Terminal A	Excavator	Excavators	Excavators175	175	0.38	210	36,673	11312.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0.000684	0.001996	0.000114356	6.81784E-06	0.000166878	0.000161872
Terminal A	Grader	Graders	Graders300	300	0.41	51	15,182	3930.00	0.3389044	0.997013	0.080621	0.001392	0.054333	0.052703	0.000602	0.001771	0.000143195	2.473E-06	9.6504E-05	9.36088E-05
Terminal A	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	664	398,160	0.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0	0	0	0	0	0
Terminal A	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	88	15,330	8709.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0.002705	0.004845	0.000729684	4.85688E-06	0.000482511	0.000468036
Terminal A	Roller	Rollers	Rollers100	100	0.38	260	26,017	7774.00	1.2804979	1.945338	0.147754	0.001932	0.201564	0.195517	0.00417	0.006335	0.000481142	6.29161E-06	0.000656369	0.000636678
Terminal A	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	161	28,161	7056.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0.002192	0.003926	0.000591187	3.93503E-06	0.000390929	0.000379201
Terminal A	Scraper	Scrapers	Scrapers600	600	0.42	201	120,692	30241.00	0.3385809	0.807662	0.04762	0.001356	0.052949	0.051361	0.00474	0.011308	0.000666711	1.89871E-05	0.000741331	0.000719091
Terminal A	Slip Form Paver	Pavers	Pavers175	175	0.42	161	28,161	7056.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0.002003	0.00521	0.000407943	5.1784E-06	0.000339628	0.000329439
Terminal A	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	161	4,023	1008.00	1.2674525	3.167056	0.29969	0.00233	0.14459	0.140252	0.000422	0.001056	9.9899E-05	7.76718E-07	4.81977E-05	4.67518E-05
Terminal A	Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	300	0.29	126	37,920	0.00	0.06781	0.21465	0.015613	0.001479	0.01562	0.015152	0	0	0	0	0	0
Terminal A	Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	32	19,354	19354.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0.00138	0.003539	0.000206446	1.11609E-05	0.000240217	0.00023301
Terminal A	Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	600	0.42	200	98,000	49000.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0.017191	0.036445	0.002407615	3.52337E-05	0.002545066	0.002468713
Terminal C	40 Ton Crane	Cranes	Cranes300	300	0.29	5,520	1,656,000	0.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0	0	0	0	0	0
Terminal C	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	25,990	2,599,038	965099.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0.238472	0.35993	0.023191843	0.000397474	0.037907022	0.036769782
Terminal C	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,216	121,638	60819.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.020454	0.031216	0.003042611	5.05651E-05	0.002994126	0.002904303
Terminal C	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	228	136,800	68400.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0.004993	0.012803	0.000746983	4.03835E-05	0.000869177	0.000843102
Terminal C	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,488	59,520	27184.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.002915	0.020638	0.000874596	1.60308E-05	0.000306293	0.000297105
Terminal C	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	1,827	1,096,200	345240.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0.124005	0.262898	0.017367254	0.000254158	0.018358754	0.017807985
Terminal C	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	7,672	767,238	306339.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0.058884	0.129259	0.004872244	0.000192928	0.009419226	0.009136652
Terminal C	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	32,802	2,460,150	933030.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0.159903	0.73616	0.02624244	0.000565732	0.018449414	0.017895927
Terminal C	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	91	6,840	3420.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0.000586	0.002698	9.61911E-05	2.07368E-06	6.76259E-05	6.55971E-05
Terminal C	Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	300	0.29	870	261,000	82200.00	0.06781	0.21465	0.015613	0.001479	0.01562	0.015152	0.001782	0.00564	0.000410251	3.88625E-05	0.000410459	0.000398145
Terminal C	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	400	39,960	19980.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0.007652	0.01155	0.000744202	1.27545E-05	0.001216396	0.001179903
Terminal C	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	400	15,984	7992.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.001631	0.011548	0.000489373	8.96991E-06	0.000171384	0.000166243
Terminal C	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	781	136,760	76607.00	0.1710414	0.475489	0.03011	0.001381	0.040299	0.03909	0.006211	0.017266	0.001093342	5.01431E-05	0.001463317	0.001419418
Terminal C	Excavator	Excavators	Excavators175	175	0.38	464	81,242	40621.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0.002456	0.007168	0.000410647	2.44826E-05	0.000599254	0.000581276
Terminal C	Grader	Graders	Graders300	300	0.41	123	36,996	18498.00	0.3389044	0.997013	0.080621	0.001392	0.054333	0.052703	0.002833	0.008335	0.000674002	1.16401E-05	0.000454232	0.000440605
Terminal C	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	121	21,190	8798.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0.002733	0.004895	0.000737141	4.90651E-06	0.000487442	0.000472819
Terminal C	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	2,359	412,800	86506.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0.01684	0.044977	0.003026044	6.28213E-05	0.003965545	0.003846578
Terminal C	Roller	Rollers	Rollers100	100	0.38	588	58,756	29378.00	1.2804979	1.945338	0.147754	0.001932	0.201564	0.195517	0.015758	0.023939	0.001818241	2.3776E-05	0.002480422	0.002406009
Terminal C	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	400	69,930	34965.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0.01086	0.019453	0.002929544	1.94995E-05	0.001937192	0.001879076
Terminal C	Scraper	Scrapers	Scrapers600	600	0.42	500	299,700	149850.00	0.3385809	0.807662	0.04762	0.001356	0.052949	0.051361	0.02349	0.056033	0.003303682	9.40846E-05	0.003673438	0.003563234
Terminal C	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	65	4,873	3333.00	0.1537169	2.064778	0.041034	0.001883	0.014872	0.014426	0.000209	0.002807	5.57814E-05	2.55973E-06	2.02171E-05	1.96106E-05
Terminal C	Slip Form Paver	Pavers	Pavers175	175	0.42	400	69,930	34965.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0.009926	0.025819	0.002021503	2.56608E-05	0.001682979	0.00163249
Terminal C	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	400	9,990	4995.00	1.2674525	3.167056	0.29969	0.00233	0.14459	0.140252	0.002094	0.005231	0.000495035	3.84892E-06	0.000238837	0.000231672
Terminal C	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	101	10,089	6240.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.002099	0.003203	0.00031217	5.18795E-06	0.000307196	0.00029798
Terminal C	Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	160	95,904	0.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0	0	0	0	0	0
Terminal C	Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	600	0.42	200	98,000	49000.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0.017191	0.036445	0.002407615	3.52337E-05	0.002545066	0.002468713
Terminal C Garage	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	45	4,514	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Terminal C Garage	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	45	1,806	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Terminal C Garage	Curb/Gutter Paver	Pavers	Pavers175	175	0.42	3	560	0.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0	0	0	0	0	0
Terminal C Garage	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	60	10,435	0.00	0.1710414	0.475489	0.03011	0.001381	0.040299	0.03909	0	0	0	0	0	0
Terminal C Garage	Excavator	Excavators	Excavators175	175	0.38	516	90,347	40803.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0.002467	0.0072	0.000412487	2.45923E-05	0.000601939	0.00058388
Terminal C Garage	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	5	871	0.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0	0	0	0	0	0
Terminal C Garage	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	381	66,653	0.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0	0	0	0	0	0
Terminal C Garage	Roller	Rollers	Rollers100	100	0.38	48	4,834	0.00	1.2804979	1.945338	0.147754	0.001932	0.201564	0.195517	0	0	0	0	0	0
Terminal C Garage	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	45	7,900	0.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0	0	0	0	0	0
Terminal C Garage	Scraper	Scrapers	Scrapers600	600	0.42	56	33,856	0.00	0.3385809	0.807662	0.04762	0.001356	0.052949	0.051361	0	0	0	0	0	0
Terminal C Garage	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	4	267	0.00	0.1537169	2.064778	0.041034	0.001883	0.014872	0.014426	0	0	0	0	0	0
Terminal C Garage	Slip Form Paver	Pavers	Pavers175	175	0.42	45	7,900	0.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0	0	0	0	0	0
Terminal C Garage	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	45	1,129	0.00	1.2674525	3.167056	0.29969	0.00233	0.14459	0.140252	0	0	0	0	0	0
Terminal C Garage	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	5	533	0.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0	0	0	0	0	0
Terminal C Garage	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	2,551	255,082	128064.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0.031644	0.047761	0.003077446	5.27429E-05	0.00503008	0.004879173
Terminal C Garage	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,262	126,158	63336.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.0213	0.032508	0.00316853	5.26577E-05	0.003118039	0.003024498
Terminal C Garage	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	3,451	345,089	174348.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0.033513	0.073565	0.002772961	0.000109802	0.005360804	0.005199981
Terminal C Garage	Forklift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.20	2,066	206,640	104400.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0.012947	0.02842	0.001071262	4.24191E-05	0.002071008	0.002008878
Terminal C Garage	Trencher	Other Construction Equipment	Other Construction Equipment75	75	0.42	1,033	77,490	39150.00	0.8440862	2.435008	0.134518	0.001806	0.119812	0.116218	0.015299	0.044135	0.002438192	3.27269E-05	0.002171642	0.002106493
Terminal C Garage	40 Ton Rough Terrain	Cranes	Cranes300	300	0.29	1,384	415,346	209844.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0.011292	0.047788	0.003214918	0.000101606	0.002362099	0.002291237

Terminal C Garage	40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	349	104,760	52200.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0.002809	0.011888	0.000799731	2.52752E-05	0.000587587	0.000569959
Terminal C Garage	90 Ton Crane	Cranes	Cranes300	300	0.29	1,397	419,040	208800.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0.011236	0.04755	0.003198924	0.000101101	0.002350348	0.002279838
Terminal C Garage	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,166	116,633	58116.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.019545	0.029829	0.002907387	4.83178E-05	0.002861057	0.002775226
Terminal C Garage	Caisson Drilling Rig	Other Construction Equipment	Other Construction Equipment175	175	0.42	349	61,110	30450.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0.005928	0.015832	0.001065164	2.2113E-05	0.001395867	0.00135399
Terminal C Garage	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	262	2,881	1436.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0.001203	0.002034	0.000405241	1.34641E-06	0.000116953	0.000113445
Terminal C Garage	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,921	1,152,360	574200.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0.041914	0.107481	0.006270728	0.000339009	0.007296512	0.007077618
Terminal C Garage	Trencher for U/G Piping	Other Construction Equipment	Other Construction Equipment75	75	0.42	580	43,475	21663.00	0.8440862	2.435008	0.134518	0.001806	0.119812	0.116218	0.008466	0.024422	0.001349133	1.81089E-05	0.001201642	0.001165593
Terminal C Garage	Concrete Boom Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	1,048	11,524	5742.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0.004809	0.008135	0.001620398	5.38375E-06	0.00046765	0.00045362
Terminal C Garage	Trowel Machines (4) machines	Other Construction Equipment	Other Construction Equipment600	600	0.42	698	419,040	208800.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0.073254	0.155302	0.010259386	0.000150139	0.010845096	0.01051974
Terminal E	90 Ton Crane	Cranes	Cranes300	300	0.29	1,172	351,470	96030.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0.005167	0.021869	0.001471229	4.64976E-05	0.001080957	0.001048529
Terminal E	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,292	129,157	32010.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.010765	0.01643	0.001601374	2.66132E-05	0.001575856	0.00152858
Terminal E	Chain Saws	Other Construction Equipment	Other Construction Equipment11	11	0.42	40	440	0.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0	0	0	0	0	0
Terminal E	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	44	483	132.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0.000111	0.000187	3.72505E-05	1.23764E-07	1.07506E-05	1.0428E-05
Terminal E	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	220	131,760	36000.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0.002628	0.006739	0.000393149	2.12545E-05	0.000457462	0.000443738
Terminal E	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	12,505	1,250,473	340020.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0.084018	0.126809	0.008170862	0.000140037	0.013355257	0.012954589
Terminal E	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	40	4,000	0.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0	0	0	0	0	0
Terminal E	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	498	19,920	12000.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.001287	0.00911	0.000386078	7.07658E-06	0.000135209	0.000131153
Terminal E	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	3,368	336,757	92010.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0.017686	0.038823	0.001463396	5.79466E-05	0.002829098	0.002744226
Terminal E	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	10,980	823,500	225000.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0.038561	0.177525	0.006328359	0.000136426	0.004449072	0.004315599
Terminal E	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	88	6,588	1800.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0.000308	0.00142	5.06269E-05	1.09141E-06	3.55926E-05	3.45248E-05
Terminal E	Mulcher	Other Construction Equipment	Other Construction Equipment100	100	0.42	40	4,000	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Terminal E	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	44	26,352	7200.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0.002526	0.005355	0.000353772	5.1772E-06	0.000373969	0.00036275
Terminal E	Bulldozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.37	40	7,000	0.00	0.1710414	0.475489	0.03011	0.001381	0.040299	0.03909	0	0	0	0	0	0
Terminal E	Grub the site down 2'-0	Other Construction Equipment	Other Construction Equipment40	40	0.42	40	1,600	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Terminal E	Log Chipper	Other Construction Equipment	Other Construction Equipment100	100	0.43	40	4,000	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Terminal E	Tractor	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	80	8,000	0.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0	0	0	0	0	0
Terminal E	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	17	1,663	1663.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0.000637	0.000961	6.19423E-05	1.0616E-06	0.000101245	9.82072E-05
Terminal E	Curb/Gutter Paver	Pavers	Pavers175	175	0.42	4	742	742.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0.000211	0.000548	4.28988E-05	5.44554E-07	3.57149E-05	3.46434E-05
Terminal E	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	33	5,838	5838.00	0.1710414	0.475489	0.03011	0.001381	0.040299	0.03909	0.000473	0.001316	8.33205E-05	3.82126E-06	0.000111515	0.00010817
Terminal E	Grader	Graders	Graders300	300	0.41	5	1,641	1641.00	0.3389044	0.997013	0.080621	0.001392	0.054333	0.052703	0.000251	0.000739	5.97923E-05	1.03262E-06	4.02959E-05	3.9087E-05
Terminal E	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	19	3,315	3315.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0.00103	0.001844	0.000277747	1.84873E-06	0.000183663	0.000178153
Terminal E	Pumps	Other Construction Equipment	Other Construction Equipment11	11	0.43	4	48	48.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	4.02E-05	6.8E-05	1.35456E-05	4.50052E-08	3.9093E-06	3.79202E-06
Terminal E	Roller	Rollers	Rollers100	100	0.38	29	2,920	2920.00	1.2804979	1.945338	0.147754	0.001932	0.201564	0.195517	0.001566	0.002379	0.000180722	2.3632E-06	0.000246539	0.000239143
Terminal E	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	17	2,910	2910.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0.000904	0.001619	0.000243814	1.62286E-06	0.000161225	0.000156388
Terminal E	Scraper	Scrapers	Scrapers600	600	0.42	21	12,472	12472.00	0.3385809	0.807662	0.04762	0.001356	0.052949	0.051361	0.001955	0.004664	0.000274965	7.83065E-06	0.00030574	0.000296568
Terminal E	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	9	707	707.00	0.1537169	2.064778	0.041034	0.001883	0.014872	0.014426	4.43E-05	0.000595	1.18324E-05	5.42972E-07	4.28847E-06	4.15981E-06
Terminal E	Slip Form Paver	Pavers	Pavers175	175	0.42	17	2,910	2910.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0.000826	0.002149	0.000168242	2.13565E-06	0.000140068	0.000135866
Terminal E	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	17	416	416.00	1.2674525	3.167056	0.29969	0.00233	0.14459	0.140252	0.000174	0.000436	4.12282E-05	3.2055E-07	1.98911E-05	1.92944E-05
Terminal E	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	26	2,566	2566.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.000863	0.001317	0.00012837	2.13338E-06	0.000126324	0.000122535
Terminal E	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	600	24,000	12000.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.0022	0.015576	0.00066007	1.20987E-05	0.000231164	0.000224229
Terminal F	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	226	22,563	0.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0	0	0	0	0	0
Terminal F	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	8,183	818,296	218308.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0.073418	0.112049	0.010921362	0.000181502	0.010747328	0.010424908
Terminal F	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	77,622	7,762,232	2318936.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0.573001	0.864838	0.055725268	0.00095505	0.09108284	0.088350284
Terminal F	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	289	50,617	0.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0	0	0	0	0	0
Terminal F	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	592	59,170	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Terminal F	Auger Drill	Other Construction Equipment	Other Construction Equipment175	175	0.42	72	12,600	0.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0	0	0	0	0	0
Terminal F	Curb/Gutter Paver	Pavers	Pavers175	175	0.42	20	3,500	0.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0	0	0	0	0	0
Terminal F	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	72	7,200	0.00	0.8245672	1.258436	0.122659	0.002038	0.120704	0.117083	0	0	0	0	0	0
Terminal F	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	592	103,548	0.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0	0	0	0	0	0
Terminal F	Slip Form Paver	Pavers	Pavers175	175	0.42	592	103,548	0.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0	0	0	0	0	0
Terminal F	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	592	14,793	0.00	1.2674525	3.167056	0.29969	0.00233	0.14459	0.140252	0	0	0	0	0	0
Terminal F	Vibratory Compactor	Plate Compactors	Plate Compactors6	6	0.43	40	240	0.00	2.0295259	3.407196	0.67132	0.002227	0.201787	0.195733	0	0	0	0	0	0
Terminal F	40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	160	48,000	48000.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0.002583	0.010931	0.000735385	2.32415E-05	0.00054031	0.000524101
Terminal F	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	20,025	2,002,496	643508.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0.123693	0.271526	0.010234831	0.000405272	0.019786404	0.019192817
Terminal F	Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	177	106,418	0.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0	0	0	0	0	0
Terminal F	40 Ton Crane	Cranes	Cranes300	300	0.29	2,616	784,800	0.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0	0	0	0	0	0
Terminal F	90 Ton Crane	Cranes	Cranes300	300	0.29	6,911	2,073,288	654925.00	0.1683305	0.712386	0.047926	0.001515	0.035213	0.034156	0.035242	0.149146	0.010033789	0.000317114	0.007372133	0.00715097
Terminal F	Caisson Drilling Rig	Other Construction Equipment	Other Construction Equipment175	175	0.42	495	86,625	0.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0	0	0	0	0	0
Terminal F	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	558	6,139	900.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0.000754	0.001275	0.000253981	8.43848E-07	7.32993E-05	7.11003E-05
Terminal F	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,295	777,240	245520.00	0.1539984	0.394907	0.02304	0.001246	0.026809	0.026005	0.017922	0.045958	0.002681277	0.000144955	0.003119888	0.003026292
Terminal F	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	6,477	259,080	81840.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0.015004	0.106226	0.004501675	8.25129E-05	0.001576537	0.001529242
Terminal F	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	64,770	4,857,750	1534500.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0.262983	1.21072	0.043159409	0.000930426	0.030342674	0.029432387
Terminal F	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	518	38,862	12276.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0.002104	0.009686	0.000345275	7.44341E-06	0.000242741	0.000235459
Terminal F	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	259	155,448	49104.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0.017227	0.036523	0.002412725	3.53085E-05	0.002550467	0.002473953
Terminal F	Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	600	0.42	600	294,000	98000.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0.034381	0.072891	0.004815229	7.04675E-05	0.005090131	0.004937426
Tunnels	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	19	1,850	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Tunnels	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	19	740	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Tunnels	Concrete Truck Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	673	7,405	0.00	1.7668548	2.988957	0.595365	0.001978	0.171823	0.166669	0	0	0	0	0	0
Tunnels	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	1,849	323,588	0.00	0.1710414	0.475489	0.03011	0.001381	0.040299	0.03909	0	0	0	0	0	0
Tunnels	Excavator	Excavators	Excavators175	175	0.38	1,479	258,871	0.00	0.144342	0.421282	0.024134	0.001439	0.035218	0.034162	0	0	0	0	0	0
Tunnels	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	2,551	255,086	0.00	1.1208045	1.691647	0.109	0.001868	0.17816	0.172815	0	0	0	0	0	0
Tunnels	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	142	5,669	0.00	0.3138007	2.221681	0.094151	0.001726	0.032973	0.031984	0	0	0	0	0	0
Tunnels	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	945	566,857	0.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0	0	0	0	0	0
Tunnels	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	1,417	141,714	0.00	0.5625019	1.234777	0.046543	0.001843	0.08998	0.08728	0	0	0	0	0	0
Tunnels	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	3,779	283,429	0.00	0.5015257	2.308919	0.082308	0.001774	0.057865	0.056129	0	0	0	0	0	0
Tunnels	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	37	6,475	0.00	0.4204642	1.123011	0.075557	0.001569	0.099015	0.096044	0	0	0	0	0	0
Tunnels	Roller	Rollers	Rollers100	100	0.38	1,479	147,926	0.00	1.2804979	1.945338	0.147754	0.001932	0.201564	0.195517	0	0	0	0	0	0
Tunnels	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	19	3,238	0.00	0.7615284	1.364117	0.205427	0.001367	0.135841	0.131766	0	0	0	0	0	0
Tunnels	Scraper	Scrapers	Scrapers600	600	0.42	1,849	1,109,445	0.00	0.3385809	0.807662	0.04762	0.001356	0.052949	0.051361	0	0	0	0	0	0
Tunnels	Slip Form Paver	Pavers	Pavers175	175	0.42	19	3,238	0.00	0.6131567	1.594986	0.124878	0.001585	0.103966	0.100847	0	0	0	0	0	0
Tunnels	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	19	463	0.00	1.2674525	3.167056	0.29969	0.00233	0.14459	0.140252	0	0	0	0	0	0
Tunnels	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	449	269,257	0.00	0.757779	1.606538	0.106129	0.001553	0.112188	0.108822	0	0	0	0	0	0
														TOTAL (Tons Per Year)	***2.685875***	***6.723789***	***0.363512732***	***0.007865657***	***0.407233379***	***0.395016236***

2024 NONROAD Construction Emissions

Appendix A. Detailed Construction Phase Nonroad Emissions Data

Table A1. Nonroad Equipment Construction Activity

All equipment is assumed to use NONROAD Diesel Fuel

Equipment Type	Equipment Lookup	MOVES Lookup	Average Horsepower	Load Factor	Total Hours	Total Horsepower -Hours	Horsepower -Hours 2024	MOVES Emissions Rates						Total Emissions (Tons Per Year)					
								3	4	11	7	14	15						
								CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Chain Saw	Other Construction Equipment	Other Construction Equipment11	11	0.42	58	634	634.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0.000528	0.000877	0.00017364	5.80635E-07	5.18708E-05	5.03146E-05
Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	100	0.43	58	5,760	5760.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.003977	0.005499	0.00041395	5.27152E-06	0.000609767	0.000591474
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	197	34,521	10240.00	0.23346946	0.667829	0.041369	0.001408	0.055364	0.053703	0.001133	0.003241	0.000200792	6.83522E-06	0.000268721	0.000260659
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	948	71,100	0.00	1.212120547	2.696035	0.232913	0.002187	0.165968	0.160989	0	0	0	0	0	0
Excavator with Bucket	Excavators	Excavators175	175	0.38	474	82,950	0.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0	0	0	0	0	0
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	474	18,960	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	2,610	195,750	0.00	1.212120547	2.696035	0.232913	0.002187	0.165968	0.160989	0	0	0	0	0	0
Excavator with Bucket	Excavators	Excavators175	175	0.38	1,305	228,375	0.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0	0	0	0	0	0
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,305	52,200	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	16,800	1,260,000	846000.00	1.212120547	2.696035	0.232913	0.002187	0.165968	0.160989	0.418239	0.93026	0.080366026	0.00075453	0.057266868	0.05554886
Excavator with Bucket	Excavators	Excavators175	175	0.38	9,334	1,633,392	1096725.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0.098504	0.277503	0.016579007	0.000675601	0.024088634	0.023365972
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	8,400	336,000	225600.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.030179	0.176919	0.008322172	0.000135803	0.00377301	0.003659818
Excavator with Hoe Ram	Excavators	Excavators175	175	0.38	934	163,392	109725.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0.009855	0.027764	0.001658694	6.75924E-05	0.002410017	0.002337716
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	227	9,089	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Excavator	Excavators	Excavators175	175	0.38	234	41,008	0.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	283	49,491	0.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0	0	0	0	0	0
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	338	25,380	25380.00	1.212120547	2.696035	0.232913	0.002187	0.165968	0.160989	0.012547	0.027908	0.002410981	2.26359E-05	0.001718006	0.001666466
Chain Saws	Other Construction Equipment	Other Construction Equipment11	11	0.53	80	880	880.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0.000925	0.001536	0.000304137	1.017E-06	9.08537E-05	8.81281E-05
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	3,709	148,353	139485.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.035513	0.208187	0.009792992	0.000159804	0.004439834	0.004306637
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	1,098	192,146	167642.00	0.23346946	0.667829	0.041369	0.001408	0.055364	0.053703	0.018552	0.053067	0.003287231	0.000111901	0.00439931	0.00426733
Excavator	Excavators	Excavators175	175	0.38	3,739	654,255	654255.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0.058763	0.165546	0.009890262	0.000403032	0.014370156	0.01393905
Excavator with Bucket	Excavators	Excavators175	175	0.38	169	29,610	29610.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0.002659	0.007492	0.000447609	1.82403E-05	0.000650359	0.000630848
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	169	6,768	6768.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.001548	0.009074	0.000426847	6.96537E-06	0.000193519	0.000187713
Grader	Graders	Graders300	300	0.41	125	37,640	37640.00	0.418102531	1.2373	0.100652	0.001426	0.06812	0.066076	0.007113	0.021048	0.001712226	2.42587E-05	0.001158815	0.001124051
Hydraulic Hammer	Other Construction Equipment	Other Construction Equipment175	175	0.31	3,117	545,496	545496.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0.103603	0.268244	0.019225128	0.000302215	0.023386794	0.022685193
Mulcher	Other Construction Equipment	Other Construction Equipment100	100	0.42	80	8,000	8000.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.005395	0.00746	0.000561561	7.15128E-06	0.000827203	0.000802387
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	4,898	857,192	744943.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0.191687	0.496306	0.035570365	0.000559158	0.043270285	0.041972181
Roller	Rollers	Rollers100	100	0.38	804	80,430	66787.00	1.588210612	2.262463	0.187911	0.001988	0.251619	0.24407	0.044431	0.063294	0.005256947	5.56245E-05	0.007039227	0.00682805
Scraper	Scrapers	Scrapers600	600	0.42	508	305,070	305070.00	0.462842957	1.076289	0.063848	0.001409	0.0716	0.069452	0.065372	0.152014	0.009017848	0.00019898	0.010112762	0.009809378
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	221	16,549	15000.00	0.167677839	2.069096	0.042872	0.001885	0.016141	0.015656	0.001026	0.012658	0.000262283	1.15325E-05	9.8746E-05	9.57836E-05
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,038	623,004	18315.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0.002132	0.005169	0.000298217	1.12534E-05	0.000355972	0.000345293
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	1,558	62,300	1831.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.000419	0.002455	0.000115478	1.8844E-06	5.23542E-05	5.07835E-05
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	1,038	77,876	2289.00	0.167677839	2.069096	0.042872	0.001885	0.016141	0.015656	0.000157	0.001932	4.00244E-05	1.75986E-06	1.50686E-05	1.46166E-05
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes300	300	0.42	1,038	311,502	9157.00	0.438890047	0.804651	0.120011	0.001473	0.082557	0.08008	0.001861	0.003411	0.00050878	6.24562E-06	0.000349994	0.000339494
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	639	383,516	146563.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0.017061	0.041365	0.00238644	9.00534E-05	0.002848613	0.002763156
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	959	38,352	14656.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.003352	0.01965	0.00092433	1.50834E-05	0.000419062	0.00040649
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	639	47,939	18320.00	0.167677839	2.069096	0.042872	0.001885	0.016141	0.015656	0.001253	0.01546	0.000320335	1.4085E-05	0.000120602	0.000116984
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes300	300	0.42	639	191,758	73282.00	0.438890047	0.804651	0.120011	0.001473	0.082557	0.08008	0.01489	0.0273	0.004071686	4.99827E-05	0.002800945	0.002716917
40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	16	4,800	4800.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0.00037	0.001516	0.000104721	2.40747E-06	7.6507E-05	7.42119E-05
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	5	463	463.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.000409	0.000565	4.25599E-05	5.41986E-07	6.26927E-05	6.08119E-05
Auger Drill	Other Construction Equipment	Other Construction Equipment175	175	0.42	24	4,200	4200.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0.001081	0.002798	0.000200546	3.15254E-06	0.000243959	0.00023664
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	800	80,000	48000.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.021713	0.028526	0.003183663	4.06202E-05	0.003205466	0.003109302
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	24	1,800	1800.00	1.212120547	2.696035	0.232913	0.002187	0.165968	0.160989	0.00089	0.001979	0.000170992	1.60538E-06	0.000121844	0.000118189
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	200	120,000	67200.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0.007823	0.018966	0.001094197	4.129E-05	0.001306106	0.001266923
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	5	185	185.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	4.71E-05	0.000276	1.29885E-05	2.11949E-07	5.88858E-06	5.71192E-06
Curb/Gutter Paver	Pavers	Pavers175	175	0.42	20	3,500	3500.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0.001213	0.003118	0.000247965	2.63397E-06	0.000205516	0.00019935
Excavator	Excavators	Excavators175	175	0.38	127	22,281	2856.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0.000257	0.000723	4.31737E-05	1.75934E-06	6.27296E-05	6.08477E-05
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	1,844	184,400	86800.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.027875	0.038542	0.002901397	3.69483E-05	0.004273884	0.004145667
Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	24	2,400	2400.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.001086	0.001426	0.000159183	2.03101E-06	0.000160273	0.000155465
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	616	61,600	25600.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0.00715	0.01303	0.000607966	1.65417E-05	0.001135306	0.001101247
Hydroseeder	Other Construction Equipment	Other Construction Equipment600	600	0.42	2	1,071	1071.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0.000467	0.000976	6.49067E-05	7.90849E-07	6.83475E-05	6.62971E-05
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	39	6,776	6776.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0.002568	0.004568	0.000702155	3.87743E-06	0.000451507	0.000437961
Off-Road Truck	Off-highway Trucks	Off-highway Trucks600	600	0.38	2	1,071	1071.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0.00011	0.000267	1.5411E-05	5.81541E-07	1.83956E-05	1.78437E-05
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	118	20,651	20651.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0.005314	0.013758	0.000986067	1.55008E-05	0.001199521	0.001163535
Paving Machine	Pavers	Pavers175	175	0.42	32	5,600	5600.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0.001941	0.004989	0.000396744	4.21436E-06	0.000328825	0.00031896
Pumps	Other Construction Equipment	Other Construction Equipment11	11	0.43	2	18	18.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	1.53E-05	2.55E-05	5.04721E-06	1.68774E-08	1.50774E-06	1.4625E-06
Roller	Rollers	Rollers100	100	0.38	146	14,617	3517.00	1.588210612	2.262463	0.187911	0.001988	0.251619	0.24407	0.00234	0.003333	0.000276831	2.92918E-06	0.000370685	0.000359565
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	5	809	809.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0.000307	0.000545	8.38317E-05	4.62934E-07	5.39063E-05	5.22891E-05
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	33	2,490	2490.00	0.167677839	2.069096	0.042872	0.001885	0.016141	0.015656	0.00017	0.002101	4.3539E-05	1.91439E-06	1.63918E-05	1.59001E-05
Slip Form Paver	Pavers	Pavers175	175	0.42	5	809	809.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0.00028	0.000721	5.73153E-05	6.08824E-07	4.75035E-05	4.60783E-05

Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	5	116	116.00	1.298284411	3.175819	0.30495	0.00233	0.148382	0.14393	4.98E-05	0.000122	1.16981E-05	8.93814E-08	5.69202E-06	5.52126E-06
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	44	4,387	4387.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.001984	0.002607	0.000290974	3.71251E-06	0.000292966	0.000284177
90 Ton Crane	Cranes	Cranes300	300	0.29	400	120,000	60000.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0.004629	0.018947	0.001309007	3.00934E-05	0.000956338	0.000927648
Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	24	264	132.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0.000113	0.000187	3.70129E-05	1.23768E-07	1.10567E-05	1.0725E-05
Grout Mixer for Mortar	Other Construction Equipment	Other Construction Equipment600	600	0.43	240	144,000	72000.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0.032165	0.067205	0.004467365	5.44322E-05	0.004704191	0.004563065
High Lift Fork Truck	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.20	400	40,000	20000.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0.003604	0.006567	0.000306434	8.33755E-06	0.000572231	0.000555064
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	1,300	97,500	36750.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.008439	0.030263	0.001325858	2.32207E-05	0.001059679	0.001027889
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	240	18,000	9000.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.002067	0.007411	0.0003247	5.68671E-06	0.000259513	0.000251728
Masonry Saw	Other Construction Equipment	Other Construction Equipment40	40	0.53	240	9,600	4800.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.001098	0.006436	0.000302728	4.93998E-06	0.000137247	0.00013313
Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	54	32,400	4800.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0.002094	0.004376	0.000290898	3.54442E-06	0.000306319	0.00029713
Concrete Truck Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	57	627	0.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0	0	0	0	0	0
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	12	480	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	80	48,000	0.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	139	83,250	0.00	0.462842957	1.076289	0.063848	0.001409	0.0716	0.069452	0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	855	149,665	28778.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0.007405	0.019173	0.001374124	2.16009E-05	0.001671581	0.001621433
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	176	13,229	12333.00	0.167677839	2.069096	0.042872	0.001885	0.016141	0.015656	0.000843	0.010408	0.000215649	9.48201E-06	8.11889E-05	7.87533E-05
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	203	20,340	16444.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.007439	0.009772	0.00109067	1.39158E-05	0.001098139	0.001065195
40 Ton Crane	Cranes	Cranes300	300	0.29	6,240	1,872,000	936000.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0.072215	0.295568	0.020420509	0.000469457	0.014918869	0.014471312
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	21,584	2,158,364	554412.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.178043	0.24618	0.018531904	0.000235997	0.027298298	0.026479352
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,408	140,844	38412.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.017376	0.022828	0.002547726	3.25063E-05	0.002565175	0.002488219
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	264	158,400	43200.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0.005029	0.012193	0.000703412	2.65436E-05	0.000839639	0.000814451
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,446	57,856	14400.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.001926	0.011293	0.000531202	8.66826E-06	0.00024083	0.000233605
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	5,312	531,244	110412.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0.03084	0.056196	0.002622136	7.13438E-05	0.004896538	0.004749642
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	20,910	1,568,280	270000.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.062004	0.22234	0.009741	0.000170601	0.007785398	0.00755184
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	106	7,920	2160.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.000496	0.001779	7.7928E-05	1.36481E-06	6.22832E-05	6.04147E-05
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	161	16,092	0.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0	0	0	0	0	0
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	161	6,437	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	300	52,570	0.00	0.23346946	0.667829	0.041369	0.001408	0.055364	0.053703	0	0	0	0	0	0
Excavator	Excavators	Excavators175	175	0.38	210	36,673	0.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0	0	0	0	0	0
Grader	Graders	Graders300	300	0.41	51	15,182	0.00	0.418102531	1.2373	0.100652	0.001426	0.06812	0.066076	0	0	0	0	0	0
Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	664	398,160	0.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0	0	0	0	0	0
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	88	15,330	0.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	260	26,017	0.00	1.588210612	2.262463	0.187911	0.001988	0.251619	0.24407	0	0	0	0	0	0
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	161	28,161	0.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	201	120,692	0.00	0.462842957	1.076289	0.063848	0.001409	0.0716	0.069452	0	0	0	0	0	0
Slip Form Paver	Pavers	Pavers175	175	0.42	161	28,161	0.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0	0	0	0	0	0
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	161	4,023	0.00	1.298284411	3.175819	0.30495	0.00233	0.148382	0.14393	0	0	0	0	0	0
Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	300	0.29	126	37,920	0.00	0.119334625	0.33619	0.024104	0.001506	0.02558	0.024813	0	0	0	0	0	0
Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	32	19,354	0.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0	0	0	0	0	0
Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	***600***	0.42	200	98,000	0.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0	0	0	0	0	0
40 Ton Crane	Cranes	Cranes300	300	0.29	5,520	1,656,000	828000.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0.063883	0.261464	0.018064296	0.000415289	0.013197461	0.012801545
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	25,990	2,599,038	138000.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.044317	0.061277	0.00461282	5.87427E-05	0.006794884	0.006591038
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,216	121,638	0.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0	0	0	0	0	0
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	228	136,800	0.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0	0	0	0	0	0
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,488	59,520	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	1,827	1,096,200	0.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0	0	0	0	0	0
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	7,672	767,238	0.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0	0	0	0	0	0
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	32,802	2,460,150	0.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0	0	0	0	0	0
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	91	6,840	0.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0	0	0	0	0	0
Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	300	0.29	870	261,000	0.00	0.119334625	0.33619	0.024104	0.001506	0.02558	0.024813	0	0	0	0	0	0
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	400	39,960	0.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0	0	0	0	0	0
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	400	15,984	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	781	136,760	0.00	0.23346946	0.667829	0.041369	0.001408	0.055364	0.053703	0	0	0	0	0	0
Excavator	Excavators	Excavators175	175	0.38	464	81,242	0.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0	0	0	0	0	0
Grader	Graders	Graders300	300	0.41	123	36,996	0.00	0.418102531	1.2373	0.100652	0.001426	0.06812	0.066076	0	0	0	0	0	0
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	121	21,190	0.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	2,359	412,800	0.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	588	58,756	0.00	1.588210612	2.262463	0.187911	0.001988	0.251619	0.24407	0	0	0	0	0	0
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	400	69,930	0.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	500	299,700	0.00	0.462842957	1.076289	0.063848	0.001409	0.0716	0.069452	0	0	0	0	0	0
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	65	4,873	0.00	0.167677839	2.069096	0.042872	0.001885	0.016141	0.015656	0	0	0	0	0	0
Slip Form Paver	Pavers	Pavers175	175	0.42	400	69,930	0.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0	0	0	0	0	0
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	400	9,990	0.00	1.298284411	3.175819	0.30495	0.00233	0.148382	0.14393	0	0	0	0	0	0
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	101	10,089	0.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0	0	0	0	0	0
Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	160	95,904	0.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0	0	0	0	0	0
	Other Construction Equipment	Other Construction Equipment600	***600***				0.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0	0	0	0	0	0
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	45	4,514	0.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0	0	0	0	0	0
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	45	1,806	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Curb/Gutter Paver	Pavers	Pavers175	175	0.42	3	560	0.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0	0	0	0	0	0
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	60	10,435	0.00	0.23346946	0.667829	0.041369	0.001408	0.055364	0.053703	0	0	0	0	0	0
Excavator	Excavators	Excavators175	175	0.38	516	90,347	0.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0	0	0	0	0	0
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	5	871	0.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	381	66,653	0.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	48	4,834	0.00	1.588210612	2.262463	0.187911	0.001988	0.251619	0.24407	0	0	0	0	0	0
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	45	7,900	0.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	56	33,856	0.00	0.462842957	1.076289	0.063848	0.001409	0.0716	0.069452	0	0	0	0	0	0

Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	4	267	0.00	0.167677839	2.069096	0.042872	0.001885	0.016141	0.015656	0	0	0	0	0	0
Slip Form Paver	Pavers	Pavers175	175	0.42	45	7,900	0.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0	0	0	0	0	0
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	45	1,129	0.00	1.298284411	3.175819	0.30495	0.00233	0.148382	0.14393	0	0	0	0	0	0
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	5	533	0.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0	0	0	0	0	0
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	2,551	255,082	0.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0	0	0	0	0	0
Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,262	126,158	0.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0	0	0	0	0	0
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	3,451	345,089	0.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0	0	0	0	0	0
Forklift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.20	2,066	206,640	0.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0	0	0	0	0	0
Trencher	Other Construction Equipment	Other Construction Equipment75	75	0.42	1,033	77,490	0.00	1.122233061	2.606298	0.171835	0.001868	0.158754	0.153991	0	0	0	0	0	0
40 Ton Rough Terrain	Cranes	Cranes300	300	0.29	1,384	415,346	0.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0	0	0	0	0	0
40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	349	104,760	0.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0	0	0	0	0	0
90 Ton Crane	Cranes	Cranes300	300	0.29	1,397	419,040	0.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0	0	0	0	0	0
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,166	116,633	0.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0	0	0	0	0	0
Caisson Drilling Rig	Other Construction Equipment	Other Construction Equipment175	175	0.42	349	61,110	0.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0	0	0	0	0	0
Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	262	2,881	0.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0	0	0	0	0	0
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,921	1,152,360	0.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0	0	0	0	0	0
Trencher for U/G Piping	Other Construction Equipment	Other Construction Equipment75	75	0.42	580	43,475	0.00	1.122233061	2.606298	0.171835	0.001868	0.158754	0.153991	0	0	0	0	0	0
Concrete Boom Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	1,048	11,524	0.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0	0	0	0	0	0
Trowel Machines (4) machines	Other Construction Equipment	Other Construction Equipment600	600	0.42	698	419,040	0.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0	0	0	0	0	0
90 Ton Crane	Cranes	Cranes300	300	0.29	1,172	351,470	96030.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0.007409	0.030324	0.002095066	4.81645E-05	0.001530619	0.001484701
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,292	129,157	32010.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.01448	0.019023	0.002123105	2.70886E-05	0.002137645	0.002073516
Chain Saws	Other Construction Equipment	Other Construction Equipment11	11	0.42	40	440	0.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0	0	0	0	0	0
Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	44	483	132.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0.000113	0.000187	3.70129E-05	1.23768E-07	1.10567E-05	1.0725E-05
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	220	131,760	36000.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0.004191	0.010161	0.000586177	2.21196E-05	0.0006997	0.000678709
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	12,505	1,250,473	340020.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.109194	0.150982	0.011365587	0.000144737	0.016742003	0.016239745
Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	40	4,000	0.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0	0	0	0	0	0
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	498	19,920	12000.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.001605	0.009411	0.000442669	7.22355E-06	0.000200692	0.000194671
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	3,368	336,757	92010.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0.0257	0.04683	0.002185114	5.94532E-05	0.004080448	0.003958035
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	10,980	823,500	225000.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.05167	0.185284	0.0081175	0.000142168	0.006487831	0.0062932
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	88	6,588	1800.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.000413	0.001482	6.494E-05	1.13734E-06	5.19027E-05	5.03456E-05
Mulcher	Other Construction Equipment	Other Construction Equipment100	100	0.42	40	4,000	0.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0	0	0	0	0	0
Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	44	26,352	7200.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0.003142	0.006564	0.000436347	5.31663E-06	0.000459479	0.000445695
Bulldozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.37	40	7,000	0.00	0.23346946	0.667829	0.041369	0.001408	0.055364	0.053703	0	0	0	0	0	0
Grub the site down 2'-0	Other Construction Equipment	Other Construction Equipment40	40	0.42	40	1,600	0.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0	0	0	0	0	0
Log Chipper	Other Construction Equipment	Other Construction Equipment100	100	0.43	40	4,000	0.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0	0	0	0	0	0
Tractor	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	80	8,000	0.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0	0	0	0	0	0
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	17	1,663	0.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0	0	0	0	0	0
Curb/Gutter Paver	Pavers	Pavers175	175	0.42	4	742	0.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0	0	0	0	0	0
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	33	5,838	0.00	0.23346946	0.667829	0.041369	0.001408	0.055364	0.053703	0	0	0	0	0	0
Grader	Graders	Graders300	300	0.41	5	1,641	0.00	0.418102531	1.2373	0.100652	0.001426	0.06812	0.066076	0	0	0	0	0	0
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	19	3,315	0.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0	0	0	0	0	0
Pumps	Other Construction Equipment	Other Construction Equipment11	11	0.43	4	48	0.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	29	2,920	0.00	1.588210612	2.262463	0.187911	0.001988	0.251619	0.24407	0	0	0	0	0	0
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	17	2,910	0.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	21	12,472	0.00	0.462842957	1.076289	0.063848	0.001409	0.0716	0.069452	0	0	0	0	0	0
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	9	707	0.00	0.167677839	2.069096	0.042872	0.001885	0.016141	0.015656	0	0	0	0	0	0
Slip Form Paver	Pavers	Pavers175	175	0.42	17	2,910	0.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0	0	0	0	0	0
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	17	416	0.00	1.298284411	3.175819	0.30495	0.00233	0.148382	0.14393	0	0	0	0	0	0
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	26	2,566	0.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0	0	0	0	0	0
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	600	24,000	12000.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.002744	0.016089	0.000756821	1.23499E-05	0.000343119	0.000332825
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	226	22,563	20498.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.009272	0.012182	0.001359557	1.73465E-05	0.001368868	0.001327802
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	8,183	818,296	146086.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.066083	0.086816	0.009689345	0.000123626	0.009755704	0.009463032
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	77,622	7,762,232	534212.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.171556	0.23721	0.017856694	0.000227399	0.026303685	0.025514577
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	289	50,617	47003.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0.017816	0.031684	0.004870634	2.68965E-05	0.003131962	0.003038002
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	592	59,170	37000.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.032676	0.045181	0.003401119	4.33121E-05	0.005009996	0.004859697
Auger Drill	Other Construction Equipment	Other Construction Equipment175	175	0.42	72	12,600	12600.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0.003242	0.008395	0.000601639	9.45763E-06	0.000731876	0.000709919
Curb/Gutter Paver	Pavers	Pavers175	175	0.42	20	3,500	3500.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0.001213	0.003118	0.000247965	2.63397E-06	0.000205516	0.00019935
Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	72	7,200	7200.00	1.109108358	1.457083	0.162621	0.002075	0.163735	0.158823	0.003257	0.004279	0.000477549	6.09303E-06	0.00048082	0.000466395
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	592	103,548	64750.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0.024542	0.043647	0.006709647	3.70519E-05	0.004314501	0.004185065
Slip Form Paver	Pavers	Pavers175	175	0.42	592	103,548	64750.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0.022441	0.05769	0.00458735	4.87285E-05	0.003802038	0.003687976
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	592	14,793	9250.00	1.298284411	3.175819	0.30495	0.00233	0.148382	0.14393	0.003971	0.009715	0.000932822	7.1274E-06	0.00045389	0.000440273
Vibratory Compactor	Plate Compactors	Plate Compactors6	6	0.43	40	240	240.00	2.071115478	3.422724	0.666218	0.002228	0.211224	0.204888	0.000236	0.000389	7.57884E-05	2.53406E-07	2.40287E-05	2.33079E-05
40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	160	48,000	0.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0	0	0	0	0	0
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	20,025	2,002,496	54286.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0.015163	0.02763	0.001289219	3.50774E-05	0.002407469	0.002335245
Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	177	106,418	0.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0	0	0	0	0	0
40 Ton Crane	Cranes	Cranes300	300	0.29	2,616	784,800	259200.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0.019998	0.08185	0.00565491	0.000130004	0.004131379	0.00400744
90 Ton Crane	Cranes	Cranes300	300	0.29	6,911	2,073,288	56658.00	0.24135142	0.987819	0.068247	0.001569	0.04986	0.048365	0.004371	0.017891	0.001236095	2.84172E-05	0.00090307	0.000875978
Caisson Drilling Rig	Other Construction Equipment	Other Construction Equipment175	175	0.42	495	86,625	86625.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0.02229	0.057713	0.004136267	6.50212E-05	0.005031645	0.004880696
Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	558	6,139	3367.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0.00287	0.004768	0.000944109	3.15701E-06	0.00028203	0.000273569
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,295	777,240	21240.00	0.245587704	0.59544	0.034352	0.001296	0.041005	0.039775	0.002472	0.005995	0.000345844	1.30506E-05	0.000412823	0.000400438
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	6,477	259,080	7080.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.001619	0.009493	0.000446524	7.28646E-06	0.00020244	0.000196367
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	64,770	4,857,750	132750.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.030485	0.109317	0.004789325	8.3879E-05	0.00382782	0.003712988
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	518	38,862	1062.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.000244	0.000875	3.83146E-05	6.71032E-07	3.06226E-05	2.97039E-05

Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	259	155,448	4248.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0.001854	0.003873	0.000257445	3.13681E-06	0.000271093	0.00026296
Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	600	0.42	600	294,000	98000.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0.042761	0.089347	0.005939172	7.23652E-05	0.006254022	0.006066401
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	19	1,850	1850.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.001634	0.002259	0.000170056	2.1656E-06	0.0002505	0.000242985
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	19	740	740.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.000188	0.001104	5.19541E-05	8.47796E-07	2.35543E-05	2.28477E-05
Concrete Truck Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	673	7,405	5016.00	1.798399736	2.987533	0.591567	0.001978	0.176717	0.171415	0.004276	0.007103	0.001406489	4.70317E-06	0.000420156	0.000407551
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	1,849	323,588	235366.00	0.23346946	0.667829	0.041369	0.001408	0.055364	0.053703	0.026046	0.074505	0.004615207	0.000157107	0.006176542	0.005991246
Excavator	Excavators	Excavators175	175	0.38	1,479	258,871	188293.00	0.214421433	0.60406	0.036089	0.001471	0.052435	0.050862	0.016912	0.047644	0.002846393	0.000115992	0.004135696	0.004011625
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	2,551	255,086	172800.00	1.456655079	2.014108	0.151618	0.001931	0.22334	0.21664	0.055493	0.07673	0.005776053	7.3556E-05	0.008508376	0.008253126
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	142	5,669	3840.00	0.391468534	2.294915	0.107952	0.001762	0.048942	0.047474	0.000878	0.005148	0.000242183	3.95198E-06	0.000109798	0.000106504
Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	945	566,857	384000.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0.171544	0.358428	0.023825948	0.000290305	0.025089021	0.024336349
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	1,417	141,714	96000.00	0.817385946	1.48944	0.069498	0.001891	0.129779	0.125886	0.026814	0.048861	0.002279871	6.20314E-05	0.004257396	0.004129675
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	3,779	283,429	192000.00	0.672026863	2.40983	0.105578	0.001849	0.084382	0.08185	0.044092	0.158109	0.006926933	0.000121317	0.005536283	0.005370198
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	37	6,475	6475.00	0.555793934	1.439033	0.103136	0.001621	0.125462	0.121698	0.001666	0.004314	0.000309175	4.86017E-06	0.000376103	0.00036482
Roller	Rollers	Rollers100	100	0.38	1,479	147,926	107596.00	1.588210612	2.262463	0.187911	0.001988	0.251619	0.24407	0.07158	0.101969	0.00846911	8.96128E-05	0.01134042	0.011000207
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	19	3,238	3238.00	0.929327765	1.652744	0.254069	0.001403	0.163374	0.158473	0.001227	0.002183	0.000335534	1.85288E-06	0.000215758	0.000209286
Scraper	Scrapers	Scrapers600	600	0.42	1,849	1,109,445	806970.00	0.462842957	1.076289	0.063848	0.001409	0.0716	0.069452	0.172921	0.402107	0.023853977	0.000526341	0.026750238	0.02594773
Slip Form Paver	Pavers	Pavers175	175	0.42	19	3,238	3238.00	0.748580802	1.924446	0.153026	0.001626	0.12683	0.123025	0.001122	0.002885	0.000229403	2.4368E-06	0.000190131	0.000184427
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	19	463	463.00	1.298284411	3.175819	0.30495	0.00233	0.148382	0.14393	0.000199	0.000486	4.66915E-05	3.56755E-07	2.2719E-05	2.20375E-05
Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	449	269,257	182400.00	0.942475168	1.969228	0.130901	0.001595	0.137841	0.133705	0.079589	0.166294	0.011054132	0.000134688	0.011640139	0.011290934
											TOTAL (Tons Per Year)			***3.181436***	***7.435503***	***0.511684019***	***0.00862341***	***0.527484271***	***0.51165978***

CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
3.181436	7.435503	0.5	0.00862341	0.527484271	0.51165978

2025 NONROAD Construction Emissions

Appendix A. Detailed Construction Phase Nonroad Emissions Data

Table B1. Nonroad Equipment Construction Activity

All equipment is assumed to use NONROAD Diesel Fuel

Equipment Type	Equipment Lookup	MOVES Lookup	Average Horsepower	Load Factor	Total Hours	Total Horsepower -Hours	Horsepower -Hours 2025	MOVES Emissions Rates						Total Emissions (Tons Per Year)					
								3	4	11	7	14	15						
								CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Chain Saw	Other Construction Equipment	Other Construction Equipment11	11	0.42	58	634	0.00	1.778	2.988	0.594	0.002	0.174	0.168	0	0	0	0	0	0
Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	100	0.43	58	5,760	0.00	1.271	1.834	0.128	0.002	0.198	0.192	0	0	0	0	0	0
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	197	34,521	24281.00	0.196	0.557	0.035	0.001	0.046	0.045	0.002256	0.006415	0.000398731	1.60196E-05	0.000532906	0.000516919
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	948	71,100	71100.00	1.051	2.608	0.202	0.002	0.141	0.136	0.030466	0.075643	0.005854368	6.24967E-05	0.004079674	0.003957283
Excavator with Bucket	Excavators	Excavators175	175	0.38	474	82,950	82950.00	0.172	0.495	0.029	0.001	0.042	0.041	0.005991	0.017211	0.001003503	5.0446E-05	0.001464923	0.001420976
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	474	18,960	18960.00	0.345	2.252	0.100	0.002	0.039	0.038	0.002237	0.014589	0.00064793	1.12767E-05	0.000255014	0.000247364
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	2,610	195,750	27900.00	1.051	2.608	0.202	0.002	0.141	0.136	0.011955	0.029683	0.002297284	2.4524E-05	0.001600885	0.001552858
Excavator with Bucket	Excavators	Excavators175	175	0.38	1,305	228,375	32550.00	0.172	0.495	0.029	0.001	0.042	0.041	0.002351	0.006754	0.00039378	1.97953E-05	0.000574843	0.000557598
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,305	52,200	7440.00	0.345	2.252	0.100	0.002	0.039	0.038	0.000878	0.005725	0.000254251	4.42505E-06	0.000100069	9.70668E-05
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	16,800	1,260,000	414000.00	1.051	2.608	0.202	0.002	0.141	0.136	0.177396	0.44045	0.034088724	0.000363905	0.023755064	0.023042409
Excavator with Bucket	Excavators	Excavators175	175	0.38	9,334	1,633,392	536667.00	0.172	0.495	0.029	0.001	0.042	0.041	0.038763	0.111352	0.00649243	0.000326374	0.009477709	0.009193381
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	8,400	336,000	110400.00	0.345	2.252	0.100	0.002	0.039	0.038	0.013028	0.084948	0.003772757	6.5662E-05	0.001484893	0.001440346
Excavator with Hoe Ram	Excavators	Excavators175	175	0.38	934	163,392	53667.00	0.172	0.495	0.029	0.001	0.042	0.041	0.003876	0.011135	0.000649247	3.26376E-05	0.000947776	0.000919343
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	227	9,089	8424.00	0.345	2.252	0.100	0.002	0.039	0.038	0.001892	0.012337	0.000547896	9.53572E-06	0.000215643	0.000209173
Excavator	Excavators	Excavators175	175	0.38	234	41,008	36855.00	0.172	0.495	0.029	0.001	0.042	0.041	0.002662	0.007647	0.00044586	2.24133E-05	0.000650871	0.000631345
`			175	0.31	211	36,855	36855.00							0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	283	49,491	36855.00	0.480	1.256	0.087	0.002	0.112	0.108	0.008196	0.02143	0.001480634	2.71706E-05	0.001903983	0.001846864
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	338	25,380	0.00	1.051	2.608	0.202	0.002	0.141	0.136	0	0	0	0	0	0
Chain Saws	Other Construction Equipment	Other Construction Equipment11	11	0.53	80	880	0.00	1.778	2.988	0.594	0.002	0.174	0.168	0	0	0	0	0	0
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	3,709	148,353	8868.00	0.345	2.252	0.100	0.002	0.039	0.038	0.001992	0.012987	0.000576774	1.00383E-05	0.000227008	0.000220198
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	1,098	192,146	24504.00	0.196	0.557	0.035	0.001	0.046	0.045	0.002277	0.006474	0.000402393	1.61668E-05	0.0005378	0.000521666
Excavator	Excavators	Excavators175	175	0.38	3,739	654,255	0.00	0.172	0.495	0.029	0.001	0.042	0.041	0	0	0	0	0	0
Excavator with Bucket	Excavators	Excavators175	175	0.38	169	29,610	0.00	0.172	0.495	0.029	0.001	0.042	0.041	0	0	0	0	0	0
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	169	6,768	0.00	0.345	2.252	0.100	0.002	0.039	0.038	0	0	0	0	0	0
Grader	Graders	Graders300	300	0.41	125	37,640	0.00	0.372	1.099	0.089	0.001	0.060	0.058	0	0	0	0	0	0
Hydraulic Hammer	Other Construction Equipment	Other Construction Equipment175	175	0.31	3,117	545,496	0.00	0.480	1.256	0.087	0.002	0.112	0.108	0	0	0	0	0	0
Mulcher	Other Construction Equipment	Other Construction Equipment100	100	0.42	80	8,000	0.00	1.271	1.834	0.128	0.002	0.198	0.192	0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	4,898	857,192	112249.00	0.480	1.256	0.087	0.002	0.112	0.108	0.024964	0.065269	0.004509556	8.27532E-05	0.005798947	0.005624981
Roller	Rollers	Rollers100	100	0.38	804	80,430	13643.00	1.411	2.078	0.164	0.002	0.223	0.216	0.008062	0.011877	0.000937852	1.11802E-05	0.001271674	0.001233524
Scraper	Scrapers	Scrapers600	600	0.42	508	305,070	0.00	0.390	0.920	0.054	0.001	0.061	0.059	0	0	0	0	0	0
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	221	16,549	1549.00	0.157	2.066	0.042	0.002	0.015	0.015	9.95E-05	0.001305	2.62379E-05	1.18998E-06	9.6114E-06	9.32305E-06
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,038	623,004	64103.00	0.191	0.474	0.028	0.001	0.033	0.032	0.005807	0.01439	0.000838955	3.83559E-05	0.000993741	0.000963929
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	1,558	62,300	6410.00	0.345	2.252	0.100	0.002	0.039	0.038	0.001293	0.008433	0.000374509	6.51804E-06	0.0001474	0.000142978
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	1,038	77,876	8013.00	0.157	2.066	0.042	0.002	0.015	0.015	0.000515	0.006752	0.000135729	6.15577E-06	4.97199E-05	4.82283E-05
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes300	300	0.42	1,038	311,502	32051.00	0.383	0.710	0.105	0.001	0.072	0.070	0.005685	0.010531	0.001559612	2.16713E-05	0.001074122	0.001041899
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	639	383,516	176753.00	0.191	0.474	0.028	0.001	0.033	0.032	0.016012	0.039677	0.002313275	0.00010576	0.002740071	0.002657868
Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	959	38,352	17675.00	0.345	2.252	0.100	0.002	0.039	0.038	0.003566	0.023252	0.001032674	1.79729E-05	0.000406443	0.00039425
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	639	47,939	22094.00	0.157	2.066	0.042	0.002	0.015	0.015	0.001419	0.018616	0.000374242	1.69731E-05	0.000137091	0.000132978
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes300	300	0.42	639	191,758	88376.00	0.383	0.710	0.105	0.001	0.072	0.070	0.015674	0.029037	0.004300405	5.97554E-05	0.002961737	0.002872885
40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	16	4,800	0.00	0.201	0.833	0.057	0.002	0.042	0.040	0	0	0	0	0	0
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	5	463	0.00	1.271	1.834	0.128	0.002	0.198	0.192	0	0	0	0	0	0
Auger Drill	Other Construction Equipment	Other Construction Equipment175	175	0.42	24	4,200	0.00	0.480	1.256	0.087	0.002	0.112	0.108	0	0	0	0	0	0
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	800	80,000	32000.00	0.925	1.330	0.137	0.002	0.136	0.132	0.012069	0.017357	0.001787639	2.67839E-05	0.001769562	0.001716475
Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	24	1,800	0.00	1.051	2.608	0.202	0.002	0.141	0.136	0	0	0	0	0	0
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	200	120,000	52800.00	0.191	0.474	0.028	0.001	0.033	0.032	0.004783	0.011852	0.000691026	3.15928E-05	0.000818519	0.000793964
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	5	185	0.00	0.345	2.252	0.100	0.002	0.039	0.038	0	0	0	0	0	0
Curb/Gutter Paver	Pavers	Pavers175	175	0.42	20	3,500	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Excavator	Excavators	Excavators175	175	0.38	127	22,281	19425.00	0.172	0.495	0.029	0.001	0.042	0.041	0.001403	0.00403	0.000234998	1.18133E-05	0.000343052	0.00033276
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	1,844	184,400	97600.00	1.271	1.834	0.128	0.002	0.198	0.192	0.027358	0.03947	0.002744047	4.08057E-05	0.004264349	0.004136417
Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	24	2,400	0.00	0.925	1.330	0.137	0.002	0.136	0.132	0	0	0	0	0	0
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	616	61,600	36000.00	0.685	1.352	0.057	0.002	0.109	0.106	0.008432	0.016633	0.000701375	2.29568E-05	0.001342442	0.001302168
Hydroseeder	Other Construction Equipment	Other Construction Equipment600	600	0.42	2	1,071	0.00	0.831	1.754	0.116	0.002	0.122	0.118	0	0	0	0	0	0
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	39	6,776	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Off-Road Truck	Off-highway Trucks	Off-highway Trucks600	600	0.38	2	1,071	0.00	0.191	0.474	0.028	0.001	0.033	0.032	0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	118	20,651	0.00	0.480	1.256	0.087	0.002	0.112	0.108	0	0	0	0	0	0
Paving Machine	Pavers	Pavers175	175	0.42	32	5,600	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Pumps	Other Construction Equipment	Other Construction Equipment11	11	0.43	2	18	0.00	1.778	2.988	0.594	0.002	0.174	0.168	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	146	14,617	11100.00	1.411	2.078	0.164	0.002	0.223	0.216	0.006559	0.009663	0.00076304	9.09623E-06	0.001034639	0.0010036
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	5	809	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	33	2,490	0.00	0.157	2.066	0.042	0.002	0.015	0.015	0	0	0	0	0	0
Slip Form Paver	Pavers	Pavers175	175	0.42	5	809	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0

Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	5	116	0.00	1.279	3.170	0.302	0.002	0.146	0.142	0	0	0	0	0	0
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	44	4,387	0.00	0.925	1.330	0.137	0.002	0.136	0.132	0	0	0	0	0	0
90 Ton Crane	Cranes	Cranes300	300	0.29	400	120,000	60000.00	0.201	0.833	0.057	0.002	0.042	0.040	0.003859	0.015971	0.001090346	2.95255E-05	0.00080043	0.000776418
Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	24	264	132.00	1.778	2.988	0.594	0.002	0.174	0.168	0.000111	0.000187	3.71453E-05	1.23766E-07	1.08563E-05	1.05306E-05
Grout Mixer for Mortar	Other Construction Equipment	Other Construction Equipment600	600	0.43	240	144,000	72000.00	0.831	1.754	0.116	0.002	0.122	0.118	0.028353	0.059872	0.003956044	5.3613E-05	0.004168512	0.00404346
High Lift Fork Truck	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.20	400	40,000	20000.00	0.685	1.352	0.057	0.002	0.109	0.106	0.003022	0.005962	0.000251389	8.22826E-06	0.000481162	0.000466727
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	1,300	97,500	60750.00	0.580	2.355	0.093	0.002	0.070	0.068	0.012044	0.048881	0.001928487	3.75454E-05	0.001451581	0.001408033
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	240	18,000	9000.00	0.580	2.355	0.093	0.002	0.070	0.068	0.001784	0.007242	0.000285702	5.56228E-06	0.000215049	0.000208597
Masonry Saw	Other Construction Equipment	Other Construction Equipment40	40	0.53	240	9,600	4800.00	0.345	2.252	0.100	0.002	0.039	0.038	0.000968	0.006315	0.000280443	4.88091E-06	0.000110378	0.000107066
Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	54	32,400	27600.00	0.831	1.754	0.116	0.002	0.122	0.118	0.010616	0.022417	0.001481217	2.00737E-05	0.001560768	0.001513947
Concrete Truck Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	57	627	627.00	1.778	2.988	0.594	0.002	0.174	0.168	0.000528	0.000888	0.00017644	5.87887E-07	5.15672E-05	5.00202E-05
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	12	480	480.00	0.345	2.252	0.100	0.002	0.039	0.038	9.68E-05	0.000631	2.80443E-05	4.88091E-07	1.10378E-05	1.07066E-05
Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	80	48,000	48000.00	0.831	1.754	0.116	0.002	0.122	0.118	0.018902	0.039914	0.002637363	3.5742E-05	0.002779008	0.00269564
Scraper	Scrapers	Scrapers600	600	0.42	139	83,250	83250.00	0.390	0.920	0.054	0.001	0.061	0.059	0.015047	0.035447	0.002094119	5.3045E-05	0.002342688	0.002272407
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	855	149,665	48831.00	0.480	1.256	0.087	0.002	0.112	0.108	0.01086	0.028394	0.001961765	3.59996E-05	0.002522681	0.002447001
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	176	13,229	0.00	0.157	2.066	0.042	0.002	0.015	0.015	0	0	0	0	0	0
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	203	20,340	1351.00	0.925	1.330	0.137	0.002	0.136	0.132	0.00051	0.000733	7.54719E-05	1.13078E-06	7.47087E-05	7.24674E-05
40 Ton Crane	Cranes	Cranes300	300	0.29	6,240	1,872,000	936000.00	0.201	0.833	0.057	0.002	0.042	0.040	0.060196	0.249149	0.017009399	0.000460597	0.012486713	0.012112115
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	21,584	2,158,364	1338344.00	1.271	1.834	0.128	0.002	0.198	0.192	0.375147	0.541228	0.037627851	0.000559549	0.058475055	0.056720789
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,408	140,844	76824.00	0.925	1.330	0.137	0.002	0.136	0.132	0.028974	0.041669	0.004291673	6.43014E-05	0.004248276	0.004120828
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	264	158,400	86400.00	0.191	0.474	0.028	0.001	0.033	0.032	0.007827	0.019395	0.00113077	5.16973E-05	0.001339395	0.001299213
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,446	57,856	33856.00	0.345	2.252	0.100	0.002	0.039	0.038	0.003995	0.026051	0.001156979	2.01363E-05	0.000455367	0.000441706
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	5,312	531,244	347224.00	0.685	1.352	0.057	0.002	0.109	0.106	0.081331	0.160424	0.00676484	0.000221421	0.012948001	0.012559558
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	20,910	1,568,280	1118280.00	0.580	2.355	0.093	0.002	0.070	0.068	0.221698	0.899805	0.03549939	0.000691131	0.026720552	0.025918931
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	106	7,920	4320.00	0.580	2.355	0.093	0.002	0.070	0.068	0.000856	0.003476	0.000137137	2.66989E-06	0.000103224	0.000100127
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	161	16,092	12060.00	1.271	1.834	0.128	0.002	0.198	0.192	0.00524	0.007559	0.000525558	7.81537E-06	0.000816736	0.000792234
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	161	6,437	4824.00	0.345	2.252	0.100	0.002	0.039	0.038	0.001083	0.007065	0.000313753	5.46063E-06	0.000123488	0.000119783
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	300	52,570	37201.00	0.196	0.557	0.035	0.001	0.046	0.045	0.003457	0.009829	0.000610897	2.45438E-05	0.000816467	0.000791973
Excavator	Excavators	Excavators175	175	0.38	210	36,673	25361.00	0.172	0.495	0.029	0.001	0.042	0.041	0.001832	0.005262	0.000306809	1.54233E-05	0.000447883	0.000434447
Grader	Graders	Graders300	300	0.41	51	15,182	11252.00	0.372	1.099	0.089	0.001	0.060	0.058	0.001892	0.00559	0.000452539	7.15383E-06	0.000305977	0.000296797
Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	664	398,160	398160.00	0.831	1.754	0.116	0.002	0.122	0.118	0.156792	0.33109	0.021876925	0.00029648	0.023051869	0.022360334
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	88	15,330	6620.00	0.827	1.482	0.225	0.001	0.147	0.142	0.002234	0.004001	0.000607348	3.73289E-06	0.000396443	0.00038455
Roller	Rollers	Rollers100	100	0.38	260	26,017	18243.00	1.411	2.078	0.164	0.002	0.223	0.216	0.01078	0.015882	0.001254067	1.49498E-05	0.001700443	0.00164943
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	161	28,161	21105.00	0.827	1.482	0.225	0.001	0.147	0.142	0.007122	0.012756	0.001936265	1.19007E-05	0.001263887	0.001225971
Scraper	Scrapers	Scrapers600	600	0.42	201	120,692	90451.00	0.390	0.920	0.054	0.001	0.061	0.059	0.016348	0.038513	0.002275257	5.76334E-05	0.002545327	0.002468967
Slip Form Paver	Pavers	Pavers175	175	0.42	161	28,161	21105.00	0.667	1.731	0.136	0.002	0.113	0.110	0.006516	0.016911	0.001331394	1.56541E-05	0.001105887	0.00107271
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	161	4,023	3015.00	1.279	3.170	0.302	0.002	0.146	0.142	0.001275	0.003161	0.000300952	2.32319E-06	0.000145546	0.00014118
Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	300	0.29	126	37,920	37920.00	0.089	0.263	0.019	0.001	0.020	0.019	0.001074	0.00319	0.000229985	1.80603E-05	0.000238659	0.000231499
Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	32	19,354	0.00	0.191	0.474	0.028	0.001	0.033	0.032	0	0	0	0	0	0
Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	***600***	0.42	200	98,000	49000.00	0.831	1.754	0.116	0.002	0.122	0.118	0.018847	0.039798	0.002629696	3.56381E-05	0.002770929	0.002687804
40 Ton Crane	Cranes	Cranes300	300	0.29	5,520	1,656,000	828000.00	0.201	0.833	0.057	0.002	0.042	0.040	0.05325	0.220401	0.015046776	0.000407451	0.011045938	0.010714564
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	25,990	2,599,038	827379.00	1.271	1.834	0.128	0.002	0.198	0.192	0.23192	0.334593	0.023261952	0.00034592	0.036149923	0.035065416
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,216	121,638	60819.00	0.925	1.330	0.137	0.002	0.136	0.132	0.022938	0.032988	0.003397575	5.09053E-05	0.003363219	0.003262322
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	228	136,800	68400.00	0.191	0.474	0.028	0.001	0.033	0.032	0.006196	0.015354	0.000895193	4.0927E-05	0.001060355	0.001028544
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,488	59,520	23568.00	0.345	2.252	0.100	0.002	0.039	0.038	0.002781	0.018135	0.000805402	1.40174E-05	0.000316992	0.000307483
Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	1,827	1,096,200	60480.00	0.831	1.754	0.116	0.002	0.122	0.118	0.023817	0.050292	0.003323077	4.50349E-05	0.00350155	0.003396506
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	7,672	767,238	197859.00	0.685	1.352	0.057	0.002	0.109	0.106	0.046345	0.091415	0.003854816	0.000126173	0.007378173	0.007156826
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	32,802	2,460,150	516060.00	0.580	2.355	0.093	0.002	0.070	0.068	0.102308	0.415239	0.016382136	0.000318941	0.012330908	0.011960979
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	91	6,840	3420.00	0.580	2.355	0.093	0.002	0.070	0.068	0.000678	0.002752	0.000108567	2.11366E-06	8.17186E-05	7.9267E-05
Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	300	0.29	870	261,000	14400.00	0.089	0.263	0.019	0.001	0.020	0.019	0.000408	0.001211	8.7336E-05	6.85833E-06	9.06299E-05	8.7911E-05
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	400	39,960	0.00	1.271	1.834	0.128	0.002	0.198	0.192	0	0	0	0	0	0
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	400	15,984	0.00	0.345	2.252	0.100	0.002	0.039	0.038	0	0	0	0	0	0
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	781	136,760	0.00	0.196	0.557	0.035	0.001	0.046	0.045	0	0	0	0	0	0
Excavator	Excavators	Excavators175	175	0.38	464	81,242	0.00	0.172	0.495	0.029	0.001	0.042	0.041	0	0	0	0	0	0
Grader	Graders	Graders300	300	0.41	123	36,996	0.00	0.372	1.099	0.089	0.001	0.060	0.058	0	0	0	0	0	0
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	121	21,190	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	2,359	412,800	0.00	0.480	1.256	0.087	0.002	0.112	0.108	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	588	58,756	0.00	1.411	2.078	0.164	0.002	0.223	0.216	0	0	0	0	0	0
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	400	69,930	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	500	299,700	0.00	0.390	0.920	0.054	0.001	0.061	0.059	0	0	0	0	0	0
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	65	4,873	0.00	0.157	2.066	0.042	0.002	0.015	0.015	0	0	0	0	0	0
Slip Form Paver	Pavers	Pavers175	175	0.42	400	69,930	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	400	9,990	0.00	1.279	3.170	0.302	0.002	0.146	0.142	0	0	0	0	0	0
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	101	10,089	0.00	0.925	1.330	0.137	0.002	0.136	0.132	0	0	0	0	0	0
Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	160	95,904	0.00	0.191	0.474	0.028	0.001	0.033	0.032	0	0	0	0	0	0
Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	***600***	0.42	200	98,000	49000.00	0.831	1.754	0.116	0.002	0.122	0.118	0.018847	0.039798	0.002629696	3.56381E-05	0.002770929	0.002687804
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	45	4,514	0.00	1.271	1.834	0.128	0.002	0.198	0.192	0	0	0	0	0	0
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	45	1,806	0.00	0.345	2.252	0.100	0.002	0.039	0.038	0	0	0	0	0	0
Curb/Gutter Paver	Pavers	Pavers175	175	0.42	3	560	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	60	10,435	0.00	0.196	0.557	0.035	0.001	0.046	0.045	0	0	0	0	0	0
Excavator	Excavators	Excavators175	175	0.38	516	90,347	20542.00	0.172	0.495	0.029	0.001	0.042	0.041	0.001484	0.004262	0.000248511	1.24926E-05	0.000362778	0.000351895
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	5	871	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	381	66,653	0.00	0.480	1.256	0.087	0.002	0.112	0.108	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	48	4,834	0.00	1.411	2.078	0.164	0.002	0.223	0.216	0	0	0	0	0	0
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	45	7,900	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	56	33,856	0.00	0.390	0.920	0.054	0.001	0.061	0.059	0	0	0	0	0	0

Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	4	267	0.00	0.157	2.066	0.042	0.002	0.015	0.015	0	0	0	0	0	0
Slip Form Paver	Pavers	Pavers175	175	0.42	45	7,900	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	45	1,129	0.00	1.279	3.170	0.302	0.002	0.146	0.142	0	0	0	0	0	0
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	5	533	0.00	0.925	1.330	0.137	0.002	0.136	0.132	0	0	0	0	0	0
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	2,551	255,082	63509.00	1.271	1.834	0.128	0.002	0.198	0.192	0.017802	0.025683	0.00178557	2.65525E-05	0.002774841	0.002691595
Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,262	126,158	31411.00	0.925	1.330	0.137	0.002	0.136	0.132	0.011846	0.017037	0.001754735	2.62909E-05	0.001736991	0.001684881
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	3,451	345,089	85370.00	0.685	1.352	0.057	0.002	0.109	0.106	0.019996	0.039443	0.001663233	5.44396E-05	0.003183452	0.003087947
Forklift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.20	2,066	206,640	51120.00	0.685	1.352	0.057	0.002	0.109	0.106	0.007725	0.015238	0.00064255	2.10314E-05	0.00122985	0.001192954
Trencher	Other Construction Equipment	Other Construction Equipment75	75	0.42	1,033	77,490	19170.00	0.966	2.509	0.151	0.002	0.137	0.132	0.008572	0.022271	0.001337438	1.62735E-05	0.001212332	0.001175962
40 Ton Rough Terrain	Cranes	Cranes300	300	0.29	1,384	415,346	102751.00	0.201	0.833	0.057	0.002	0.042	0.040	0.006608	0.027351	0.001867236	5.05628E-05	0.00137075	0.001329628
40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	349	104,760	26280.00	0.201	0.833	0.057	0.002	0.042	0.040	0.00169	0.006995	0.000477572	1.29321E-05	0.000350588	0.000340071
90 Ton Crane	Cranes	Cranes300	300	0.29	1,397	419,040	105120.00	0.201	0.833	0.057	0.002	0.042	0.040	0.00676	0.027981	0.001910286	5.17286E-05	0.001402354	0.001360284
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,166	116,633	29258.00	0.925	1.330	0.137	0.002	0.136	0.132	0.011034	0.01587	0.00163446	2.44888E-05	0.001617933	0.001569395
Caisson Drilling Rig	Other Construction Equipment	Other Construction Equipment175	175	0.42	349	61,110	15330.00	0.480	1.256	0.087	0.002	0.112	0.108	0.003409	0.008914	0.000615876	1.13017E-05	0.00079197	0.000768211
Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	262	2,881	723.00	1.778	2.988	0.594	0.002	0.174	0.168	0.000609	0.001024	0.000203455	6.77899E-07	5.94627E-05	5.76788E-05
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,921	1,152,360	289080.00	0.191	0.474	0.028	0.001	0.033	0.032	0.026188	0.064892	0.003783368	0.00017297	0.004481393	0.004346951
Trencher for U/G Piping	Other Construction Equipment	Other Construction Equipment75	75	0.42	580	43,475	10906.00	0.966	2.509	0.151	0.002	0.137	0.132	0.004877	0.01267	0.000760881	9.25817E-06	0.000689707	0.000669016
Concrete Boom Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	1,048	11,524	2891.00	1.778	2.988	0.594	0.002	0.174	0.168	0.002436	0.004095	0.000813539	2.71066E-06	0.000237769	0.000230635
Trowel Machines (4) machines	Other Construction Equipment	Other Construction Equipment600	600	0.42	698	419,040	105120.00	0.831	1.754	0.116	0.002	0.122	0.118	0.040433	0.08538	0.005641503	7.64547E-05	0.005944492	0.005766162
90 Ton Crane	Cranes	Cranes300	300	0.29	1,172	351,470	159410.00	0.201	0.833	0.057	0.002	0.042	0.040	0.010252	0.042433	0.002896868	7.84442E-05	0.00212661	0.002062812
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,292	129,157	65137.00	0.925	1.330	0.137	0.002	0.136	0.132	0.024566	0.03533	0.003638794	5.45194E-05	0.003601999	0.003493939
Chain Saws	Other Construction Equipment	Other Construction Equipment11	11	0.42	40	440	440.00	1.778	2.988	0.594	0.002	0.174	0.168	0.000362	0.000609	0.000120938	4.02958E-07	3.5346E-05	3.42856E-05
Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	44	483	219.00	1.778	2.988	0.594	0.002	0.174	0.168	0.000185	0.00031	6.16275E-05	2.05339E-07	1.80115E-05	1.74712E-05
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	220	131,760	59760.00	0.191	0.474	0.028	0.001	0.033	0.032	0.005414	0.013415	0.000782116	3.57573E-05	0.000926415	0.000898622
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	12,505	1,250,473	570433.00	1.271	1.834	0.128	0.002	0.198	0.192	0.159896	0.230684	0.016037856	0.000238493	0.024923413	0.024175705
Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	40	4,000	4000.00	0.925	1.330	0.137	0.002	0.136	0.132	0.001509	0.00217	0.000223455	3.34798E-06	0.000221195	0.000214559
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	498	19,920	19920.00	0.345	2.252	0.100	0.002	0.039	0.038	0.002351	0.015328	0.000680737	1.18477E-05	0.000267926	0.000259889
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	3,368	336,757	152737.00	0.685	1.352	0.057	0.002	0.109	0.106	0.035776	0.070567	0.00297572	9.73989E-05	0.005695571	0.005524702
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	10,980	823,500	373500.00	0.580	2.355	0.093	0.002	0.070	0.068	0.074046	0.300531	0.011856621	0.000230834	0.008924532	0.008656795
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	88	6,588	2988.00	0.580	2.355	0.093	0.002	0.070	0.068	0.000592	0.002404	9.4853E-05	1.84668E-06	7.13963E-05	6.92544E-05
Mulcher	Other Construction Equipment	Other Construction Equipment100	100	0.42	40	4,000	4000.00	1.271	1.834	0.128	0.002	0.198	0.192	0.002355	0.003397	0.000236168	3.51196E-06	0.000367014	0.000356003
Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	44	26,352	11952.00	0.831	1.754	0.116	0.002	0.122	0.118	0.004597	0.009708	0.000641431	8.69279E-06	0.000675881	0.000655605
Bulldozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.37	40	7,000	7000.00	0.196	0.557	0.035	0.001	0.046	0.045	0.00056	0.001591	9.89111E-05	3.97391E-06	0.000132195	0.000128229
Grub the site down 2'-0	Other Construction Equipment	Other Construction Equipment40	40	0.42	40	1,600	1600.00	0.345	2.252	0.100	0.002	0.039	0.038	0.000256	0.001668	7.40794E-05	1.2893E-06	2.91564E-05	2.82817E-05
Log Chipper	Other Construction Equipment	Other Construction Equipment100	100	0.43	40	4,000	4000.00	1.271	1.834	0.128	0.002	0.198	0.192	0.002411	0.003478	0.000241791	3.59558E-06	0.000375752	0.000364479
Tractor	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	80	8,000	8000.00	0.925	1.330	0.137	0.002	0.136	0.132	0.003017	0.004339	0.00044691	6.69597E-06	0.000442391	0.000429119
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	17	1,663	0.00	1.271	1.834	0.128	0.002	0.198	0.192	0	0	0	0	0	0
Curb/Gutter Paver	Pavers	Pavers175	175	0.42	4	742	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	33	5,838	0.00	0.196	0.557	0.035	0.001	0.046	0.045	0	0	0	0	0	0
Grader	Graders	Graders300	300	0.41	5	1,641	0.00	0.372	1.099	0.089	0.001	0.060	0.058	0	0	0	0	0	0
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	19	3,315	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Pumps	Other Construction Equipment	Other Construction Equipment11	11	0.43	4	48	0.00	1.778	2.988	0.594	0.002	0.174	0.168	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	29	2,920	0.00	1.411	2.078	0.164	0.002	0.223	0.216	0	0	0	0	0	0
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	17	2,910	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	21	12,472	0.00	0.390	0.920	0.054	0.001	0.061	0.059	0	0	0	0	0	0
Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	9	707	0.00	0.157	2.066	0.042	0.002	0.015	0.015	0	0	0	0	0	0
Slip Form Paver	Pavers	Pavers175	175	0.42	17	2,910	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	17	416	0.00	1.279	3.170	0.302	0.002	0.146	0.142	0	0	0	0	0	0
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	26	2,566	0.00	0.925	1.330	0.137	0.002	0.136	0.132	0	0	0	0	0	0
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	600	24,000	19920.00	0.345	2.252	0.100	0.002	0.039	0.038	0.004019	0.026205	0.00116384	2.02558E-05	0.000458067	0.000444326
Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	226	22,563	2065.00	0.925	1.330	0.137	0.002	0.136	0.132	0.000779	0.00112	0.000115359	1.7284E-06	0.000114192	0.000110766
Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	8,183	818,296	453902.00	0.925	1.330	0.137	0.002	0.136	0.132	0.171186	0.246197	0.025356649	0.000379914	0.025100243	0.024347235
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	77,622	7,762,232	4909084.00	1.271	1.834	0.128	0.002	0.198	0.192	1.37605	1.985238	0.138020032	0.002052443	0.21448817	0.208053472
Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	289	50,617	3614.00	0.827	1.482	0.225	0.001	0.147	0.142	0.00122	0.002184	0.000331564	2.03786E-06	0.000216427	0.000209934
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	592	59,170	22170.00	1.271	1.834	0.128	0.002	0.198	0.192	0.01709	0.024655	0.001714115	2.54899E-05	0.002663798	0.002583883
Auger Drill	Other Construction Equipment	Other Construction Equipment175	175	0.42	72	12,600	0.00	0.480	1.256	0.087	0.002	0.112	0.108	0	0	0	0	0	0
Curb/Gutter Paver	Pavers	Pavers175	175	0.42	20	3,500	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	72	7,200	0.00	0.925	1.330	0.137	0.002	0.136	0.132	0	0	0	0	0	0
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	592	103,548	38798.00	0.827	1.482	0.225	0.001	0.147	0.142	0.013093	0.023451	0.003559497	2.18774E-05	0.002323445	0.002253743
Slip Form Paver	Pavers	Pavers175	175	0.42	592	103,548	38798.00	0.667	1.731	0.136	0.002	0.113	0.110	0.011978	0.031089	0.002447544	2.87774E-05	0.002032987	0.001971997
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	592	14,793	5543.00	1.279	3.170	0.302	0.002	0.146	0.142	0.002345	0.005811	0.000553292	4.27113E-06	0.000267583	0.000259555
Vibratory Compactor	Plate Compactors	Plate Compactors6	6	0.43	40	240	0.00	2.048	3.414	0.669	0.002	0.206	0.200	0	0	0	0	0	0
40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	160	48,000	0.00	0.201	0.833	0.057	0.002	0.042	0.040	0	0	0	0	0	0
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	20,025	2,002,496	1304702.00	0.685	1.352	0.057	0.002	0.109	0.106	0.305605	0.602798	0.02541904	0.000831995	0.048652407	0.047192822
Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	177	106,418	106418.00	0.191	0.474	0.028	0.001	0.033	0.032	0.009416	0.023333	0.001360368	6.21942E-05	0.001611354	0.001563013
40 Ton Crane	Cranes	Cranes300	300	0.29	2,616	784,800	525600.00	0.201	0.833	0.057	0.002	0.042	0.040	0.033802	0.139907	0.009551432	0.000258643	0.007011769	0.006801419
90 Ton Crane	Cranes	Cranes300	300	0.29	6,911	2,073,288	1361705.00	0.201	0.833	0.057	0.002	0.042	0.040	0.087574	0.362465	0.024745495	0.000670083	0.018165832	0.017620863
Caisson Drilling Rig	Other Construction Equipment	Other Construction Equipment175	175	0.42	495	86,625	0.00	0.480	1.256	0.087	0.002	0.112	0.108	0	0	0	0	0	0
Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	558	6,139	1872.00	1.778	2.988	0.594	0.002	0.174	0.168	0.001577	0.002651	0.000526788	1.75522E-06	0.000153961	0.000149343
Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,295	777,240	510480.00	0.191	0.474	0.028	0.001	0.033	0.032	0.046244	0.114591	0.006680966	0.000305445	0.007913594	0.007676185
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	6,477	259,080	170160.00	0.345	2.252	0.100	0.002	0.039	0.038	0.034329	0.22385	0.009941717	0.000173028	0.00391289	0.003795504
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	64,770	4,857,750	3190500.00	0.580	2.355	0.093	0.002	0.070	0.068	0.632512	2.567183	0.101281255	0.001971827	0.076234862	0.073947804
Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	518	38,862	25524.00	0.580	2.355	0.093	0.002	0.070	0.068	0.00506	0.020537	0.00081025	1.57746E-05	0.000609879	0.000591582

Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	259	155,448	102096.00	0.831	1.754	0.116	0.002	0.122	0.118	0.03927	0.082923	0.005479213	7.42553E-05	0.005773486	0.005600286
Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	***600***	0.42	600	294,000	98000.00	0.831	1.754	0.116	0.002	0.122	0.118	0.037694	0.079597	0.005259392	7.12762E-05	0.005541859	0.005375608
Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	19	1,850	0.00	1.271	1.834	0.128	0.002	0.198	0.192	0	0	0	0	0	0
Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	19	740	0.00	0.345	2.252	0.100	0.002	0.039	0.038	0	0	0	0	0	0
Concrete Truck Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	673	7,405	2389.00	1.778	2.988	0.594	0.002	0.174	0.168	0.002013	0.003384	0.000672274	2.23997E-06	0.000196482	0.000190587
Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	1,849	323,588	88222.00	0.196	0.557	0.035	0.001	0.046	0.045	0.008197	0.02331	0.00144874	5.82054E-05	0.001936247	0.00187816
Excavator	Excavators	Excavators175	175	0.38	1,479	258,871	70578.00	0.172	0.495	0.029	0.001	0.042	0.041	0.005098	0.014644	0.000853831	4.2922E-05	0.00124643	0.001209037
Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	2,551	255,086	82286.00	1.271	1.834	0.128	0.002	0.198	0.192	0.023065	0.033277	0.00231349	3.4403E-05	0.003595248	0.003487389
Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	142	5,669	1829.00	0.345	2.252	0.100	0.002	0.039	0.038	0.000369	0.002406	0.000106861	1.85983E-06	4.20585E-05	4.07968E-05
Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	945	566,857	182857.00	0.831	1.754	0.116	0.002	0.122	0.118	0.072008	0.152055	0.010047089	0.00013616	0.010586688	0.010269097
High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	1,417	141,714	45714.00	0.685	1.352	0.057	0.002	0.109	0.106	0.010708	0.021121	0.000890629	2.91514E-05	0.001704677	0.001653537
Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	3,779	283,429	91429.00	0.580	2.355	0.093	0.002	0.070	0.068	0.018126	0.073567	0.00290238	5.65059E-05	0.002184635	0.002119095
Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	37	6,475	0.00	0.480	1.256	0.087	0.002	0.112	0.108	0	0	0	0	0	0
Roller	Rollers	Rollers100	100	0.38	1,479	147,926	40330.00	1.411	2.078	0.164	0.002	0.223	0.216	0.023832	0.03511	0.002772379	3.30496E-05	0.003759188	0.003646413
Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	19	3,238	0.00	0.827	1.482	0.225	0.001	0.147	0.142	0	0	0	0	0	0
Scraper	Scrapers	Scrapers600	600	0.42	1,849	1,109,445	302475.00	0.390	0.920	0.054	0.001	0.061	0.059	0.054671	0.128789	0.007608631	0.00019273	0.008511767	0.008256413
Slip Form Paver	Pavers	Pavers175	175	0.42	19	3,238	0.00	0.667	1.731	0.136	0.002	0.113	0.110	0	0	0	0	0	0
Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	19	463	0.00	1.279	3.170	0.302	0.002	0.146	0.142	0	0	0	0	0	0
Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	449	269,257	86857.00	0.831	1.754	0.116	0.002	0.122	0.118	0.033408	0.070546	0.004661378	6.31718E-05	0.004911727	0.004764379
											TOTAL (Tons Per Year)			***5.66***	***13.37***	***0.77***	***0.0148***	***0.8584***	***0.8326***

2027 NONROAD Construction Emissions

Appendix A. Detailed Construction Phase Nonroad Emissions Data

Table A4. Nonroad Equipment Construction Activity

All equipment is assumed to use NONROAD Diesel Fuel

Project	Equipment Type	TEXN2.6 Equipment Lookup	TEXN2.6 Lookup	Average Horsepower	Load Factor	Total Hours	Total Horsepower -Hours	Horsepower -Hours 2027	MOVES Emissions Rates						Total Emissions (Tons Per Year)					
									3	4	11	7	14	15						
									CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Goods/Services Dock	Chain Saw	Other Construction Equipment	Other Construction Equipment11	11	0.42	58	634	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Goods/Services Dock	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	100	0.43	58	5,760	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Goods/Services Dock	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	197	34,521	0.00	0.1481308	0.412914	0.026071	0.001371	0.034607	0.033569	0	0	0	0	0	0
Terminal A	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	948	71,100	0.00	0.8401994	2.50479	0.16484	0.002121	0.112608	0.10923	0	0	0	0	0	0
Terminal A	Excavator with Bucket	Excavators	Excavators175	175	0.38	474	82,950	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Terminal A	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	474	18,960	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal C	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	2,610	195,750	0.00	0.8401994	2.50479	0.16484	0.002121	0.112608	0.10923	0	0	0	0	0	0
Terminal C	Excavator with Bucket	Excavators	Excavators175	175	0.38	1,305	228,375	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Terminal C	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,305	52,200	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal C Garage	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	16,800	1,260,000	0.00	0.8401994	2.50479	0.16484	0.002121	0.112608	0.10923	0	0	0	0	0	0
Terminal C Garage	Excavator with Bucket	Excavators	Excavators175	175	0.38	9,334	1,633,392	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Terminal C Garage	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.31	8,400	336,000	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal C Garage	Excavator with Hoe Ram	Excavators	Excavators175	175	0.38	934	163,392	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Terminal E	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	227	9,089	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal E	Excavator	Excavators	Excavators175	175	0.38	234	41,008	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Terminal E	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	283	49,491	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Terminal F	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	338	25,380	0.00	0.8401994	2.50479	0.16484	0.002121	0.112608	0.10923	0	0	0	0	0	0
Terminal F	Chain Saws	Other Construction Equipment	Other Construction Equipment11	11	0.53	80	880	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Terminal F	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	3,709	148,353	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal F	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	1,098	192,146	0.00	0.1481308	0.412914	0.026071	0.001371	0.034607	0.033569	0	0	0	0	0	0
Terminal F	Excavator	Excavators	Excavators175	175	0.38	3,739	654,255	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Terminal F	Excavator with Bucket	Excavators	Excavators175	175	0.38	169	29,610	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Terminal F	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	169	6,768	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal F	Grader	Graders	Graders300	300	0.41	125	37,640	0.00	0.3151243	0.920446	0.074546	0.001381	0.050019	0.048518	0	0	0	0	0	0
Terminal F	Hydraulic Hammer	Other Construction Equipment	Other Construction Equipment175	175	0.31	3,117	545,496	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Terminal F	Mulcher	Other Construction Equipment	Other Construction Equipment100	100	0.42	80	8,000	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal F	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	4,898	857,192	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Terminal F	Roller	Rollers	Rollers100	100	0.38	804	80,430	0.00	1.1649027	1.832803	0.133911	0.001911	0.183217	0.177721	0	0	0	0	0	0
Terminal F	Scraper	Scrapers	Scrapers600	600	0.42	508	305,070	0.00	0.3009022	0.719062	0.042852	0.001342	0.047486	0.046061	0	0	0	0	0	0
Terminal F	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	221	16,549	0.00	0.1537371	2.064794	0.041035	0.001883	0.014877	0.014431	0	0	0	0	0	0
Batch Plant Terminal A/C	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,038	623,004	249254.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0.015350782	0.040047	0.002386446	0.000146155	0.002731707	0.002649756
Batch Plant Terminal A/C	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	1,558	62,300	24925.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0.004255822	0.032046	0.001307216	2.49761E-05	0.000418882	0.000406316
Batch Plant Terminal A/C	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	1,038	77,876	31157.00	0.1537371	2.064794	0.041035	0.001883	0.014877	0.014431	0.001953631	0.026239	0.00052146	2.39284E-05	0.000189054	0.000183382
Batch Plant Terminal A/C	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes300	300	0.42	1,038	311,502	124627.00	0.3183775	0.589443	0.086812	0.001444	0.060319	0.058509	0.018370049	0.03401	0.005008986	8.33399E-05	0.003480337	0.003375927
Batch Plant Terminal E/F	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	639	383,516	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Batch Plant Terminal E/F	Generator Sets	Other Construction Equipment	Other Construction Equipment40	40	0.53	959	38,352	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Batch Plant Terminal E/F	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	639	47,939	0.00	0.1537371	2.064794	0.041035	0.001883	0.014877	0.014431	0	0	0	0	0	0
Batch Plant Terminal E/F	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes300	300	0.42	639	191,758	0.00	0.3183775	0.589443	0.086812	0.001444	0.060319	0.058509	0	0	0	0	0	0
Goods/Services Dock	40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	16	4,800	0.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0	0	0	0	0	0
Goods/Services Dock	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	5	463	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Goods/Services Dock	Auger Drill	Other Construction Equipment	Other Construction Equipment175	175	0.42	24	4,200	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Goods/Services Dock	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	800	80,000	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Goods/Services Dock	Bob Cat	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes75	75	0.37	24	1,800	0.00	0.8401994	2.50479	0.16484	0.002121	0.112608	0.10923	0	0	0	0	0	0
Goods/Services Dock	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	200	120,000	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Goods/Services Dock	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	5	185	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Goods/Services Dock	Curb/Gutter Paver	Pavers	Pavers175	175	0.42	20	3,500	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Goods/Services Dock	Excavator	Excavators	Excavators175	175	0.38	127	22,281	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Goods/Services Dock	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	1,844	184,400	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Goods/Services Dock	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	24	2,400	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Goods/Services Dock	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	616	61,600	0.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0	0	0	0	0	0
Goods/Services Dock	Hydroseeder	Other Construction Equipment	Other Construction Equipment600	600	0.42	2	1,071	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Goods/Services Dock	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	39	6,776	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Goods/Services Dock	Off-Road Truck	Off-highway Trucks	Off-highway Trucks600	600	0.38	2	1,071	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Goods/Services Dock	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	118	20,651	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Goods/Services Dock	Paving Machine	Pavers	Pavers175	175	0.42	32	5,600	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Goods/Services Dock	Pumps	Other Construction Equipment	Other Construction Equipment11	11	0.43	2	18	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Goods/Services Dock	Roller	Rollers	Rollers100	100	0.38	146	14,617	0.00	1.1649027	1.832803	0.133911	0.001911	0.183217	0.177721	0	0	0	0	0	0
Goods/Services Dock	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	5	809	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Goods/Services Dock	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	33	2,490	0.00	0.1537371	2.064794	0.041035	0.001883	0.014877	0.014431	0	0	0	0	0	0
Goods/Services Dock	Slip Form Paver	Pavers	Pavers175	175	0.42	5	809	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Goods/Services Dock	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	5	116	0.00	1.2597655	3.16474	0.298061	0.00233	0.143726	0.139414	0	0	0	0	0	0
Goods/Services Dock	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	44	4,387	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Goods/Services Dock	90 Ton Crane	Cranes	Cranes300	300	0.29	400	120,000	0.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0	0	0	0	0	0
Goods/Services Dock	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	24	264	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Goods/Services Dock	Grout Mixer for Mortar	Other Construction Equipment	Other Construction Equipment600	600	0.43	240	144,000	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Goods/Services Dock	High Lift Fork Truck	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.20	400	40,000	0.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0	0	0	0	0	0
Goods/Services Dock	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	1,300	97,500	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0

Goods/Services Dock	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	240	18,000	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Goods/Services Dock	Masonry Saw	Other Construction Equipment	Other Construction Equipment40	40	0.53	240	9,600	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Goods/Services Dock	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	54	32,400	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Goods/Services Dock	Concrete Truck Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	57	627	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Goods/Services Dock	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	12	480	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Goods/Services Dock	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	80	48,000	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Goods/Services Dock	Scraper	Scrapers	Scrapers600	600	0.42	139	83,250	0.00	0.3009022	0.719062	0.042852	0.001342	0.047486	0.046061	0	0	0	0	0	0
Terminal A	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	855	149,665	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Terminal A	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	176	13,229	0.00	0.1537371	2.064794	0.041035	0.001883	0.014877	0.014431	0	0	0	0	0	0
Terminal A	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	203	20,340	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal A	40 Ton Crane	Cranes	Cranes300	300	0.29	6,240	1,872,000	0.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0	0	0	0	0	0
Terminal A	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	21,584	2,158,364	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal A	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,408	140,844	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal A	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	264	158,400	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Terminal A	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,446	57,856	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal A	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	5,312	531,244	0.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0	0	0	0	0	0
Terminal A	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	20,910	1,568,280	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Terminal A	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	106	7,920	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Terminal A	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	161	16,092	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal A	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	161	6,437	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal A	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	300	52,570	0.00	0.1481308	0.412914	0.026071	0.001371	0.034607	0.033569	0	0	0	0	0	0
Terminal A	Excavator	Excavators	Excavators175	175	0.38	210	36,673	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Terminal A	Grader	Graders	Graders300	300	0.41	51	15,182	0.00	0.3151243	0.920446	0.074546	0.001381	0.050019	0.048518	0	0	0	0	0	0
Terminal A	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	664	398,160	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Terminal A	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	88	15,330	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Terminal A	Roller	Rollers	Rollers100	100	0.38	260	26,017	0.00	1.1649027	1.832803	0.133911	0.001911	0.183217	0.177721	0	0	0	0	0	0
Terminal A	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	161	28,161	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Terminal A	Scraper	Scrapers	Scrapers600	600	0.42	201	120,692	0.00	0.3009022	0.719062	0.042852	0.001342	0.047486	0.046061	0	0	0	0	0	0
Terminal A	Slip Form Paver	Pavers	Pavers175	175	0.42	161	28,161	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Terminal A	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	161	4,023	0.00	1.2597655	3.16474	0.298061	0.00233	0.143726	0.139414	0	0	0	0	0	0
Terminal A	Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	300	0.29	126	37,920	0.00	0.0522297	0.179096	0.013174	0.001471	0.012532	0.012156	0	0	0	0	0	0
Terminal A	Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	32	19,354	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Terminal A	Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	***600***	0.42	200	98,000	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Terminal C	40 Ton Crane	Cranes	Cranes300	300	0.29	5,520	1,656,000	0.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0	0	0	0	0	0
Terminal C	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	25,990	2,599,038	334280.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0.07267996	0.116546	0.0070369	0.000135823	0.011644684	0.011295342
Terminal C	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,216	121,638	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal C	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	228	136,800	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Terminal C	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	1,488	59,520	4384.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0.000437829	0.003297	0.000134483	2.56948E-06	4.30936E-05	4.18008E-05
Terminal C	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	1,827	1,096,200	345240.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0.115287642	0.244516	0.016182846	0.000251765	0.017194147	0.016678319
Terminal C	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	7,672	767,238	131520.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0.021391972	0.051128	0.001740007	8.21072E-05	0.003426602	0.003323804
Terminal C	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	32,802	2,460,150	505530.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0.070943837	0.390372	0.012420635	0.000302134	0.008115025	0.007871575
Terminal C	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	91	6,840	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Terminal C	Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	300	0.29	870	261,000	82200.00	0.0522297	0.179096	0.013174	0.001471	0.012532	0.012156	0.001372441	0.004706	0.000346186	3.86481E-05	0.000329306	0.000319427
Terminal C	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	400	39,960	19980.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0.006733354	0.010797	0.000651926	1.25832E-05	0.001078809	0.001046444
Terminal C	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	400	15,984	7992.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0.001519077	0.011439	0.000466599	8.91499E-06	0.000149516	0.000145031
Terminal C	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	781	136,760	60153.00	0.1481308	0.412914	0.026071	0.001371	0.034607	0.033569	0.004223551	0.011773	0.000743332	3.90854E-05	0.000986738	0.000957136
Terminal C	Excavator	Excavators	Excavators175	175	0.38	464	81,242	40621.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0.002128546	0.006241	0.000356268	2.43335E-05	0.00051871	0.000503148
Terminal C	Grader	Graders	Graders300	300	0.41	123	36,996	18498.00	0.3151243	0.920446	0.074546	0.001381	0.050019	0.048518	0.002634493	0.007695	0.000623217	1.15441E-05	0.000418167	0.000405622
Terminal C	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	121	21,190	12392.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0.003584958	0.006403	0.000957986	6.84829E-06	0.00064153	0.000622285
Terminal C	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	2,359	412,800	326294.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0.055609297	0.152609	0.009990727	0.000233773	0.013235528	0.012838465
Terminal C	Roller	Rollers	Rollers100	100	0.38	588	58,756	29378.00	1.1649027	1.832803	0.133911	0.001911	0.183217	0.177721	0.014335142	0.022554	0.001647889	2.35163E-05	0.002254646	0.002187006
Terminal C	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	400	69,930	34965.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0.01011524	0.018068	0.002703033	1.9323E-05	0.001810128	0.001755825
Terminal C	Scraper	Scrapers	Scrapers600	600	0.42	500	299,700	149850.00	0.3009022	0.719062	0.042852	0.001342	0.047486	0.046061	0.020875553	0.049886	0.002972891	9.30703E-05	0.003294406	0.003195574
Terminal C	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	65	4,873	1540.00	0.1537371	2.064794	0.041035	0.001883	0.014877	0.014431	9.65623E-05	0.001297	2.57742E-05	1.18271E-06	9.34438E-06	9.06405E-06
Terminal C	Slip Form Paver	Pavers	Pavers175	175	0.42	400	69,930	34965.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0.009271712	0.024072	0.001877767	2.5439E-05	0.001570049	0.001522948
Terminal C	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	400	9,990	4995.00	1.2597655	3.16474	0.298061	0.00233	0.143726	0.139414	0.002080909	0.005228	0.000492345	3.84895E-06	0.00023741	0.000230287
Terminal C	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	101	10,089	3849.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0.001169515	0.001884	0.000174139	3.18349E-06	0.000171394	0.000166253
Terminal C	Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	160	95,904	95904.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0.005769072	0.01505	0.000896865	5.49274E-05	0.00102662	0.000995821
Terminal C	Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	***600***	0.42	200	98,000	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Terminal C Garage	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	45	4,514	2091.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0.000704677	0.00113	6.82271E-05	1.31689E-06	0.000112902	0.000109515
Terminal C Garage	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	45	1,806	837.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0.000159093	0.001198	4.88668E-05	9.33664E-07	1.56588E-05	1.5189E-05
Terminal C Garage	Curb/Gutter Paver	Pavers	Pavers175	175	0.42	3	560	280.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	7.42479E-05	0.000193	1.50372E-05	2.03715E-07	1.2573E-05	1.21958E-05
Terminal C Garage	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	60	10,435	4855.00	0.1481308	0.412914	0.026071	0.001371	0.034607	0.033569	0.000340886	0.00095	5.99949E-05	3.15462E-06	7.96405E-05	7.72512E-05
Terminal C Garage	Excavator	Excavators	Excavators175	175	0.38	516	90,347	24482.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0.00128286	0.003761	0.000214721	1.46657E-05	0.000312623	0.000303244
Terminal C Garage	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	5	871	436.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0.000126133	0.000225	3.37058E-05	2.4095E-07	2.25716E-05	2.18945E-05
Terminal C Garage	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	381	66,653	30954.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0.005275396	0.014477	0.000947774	2.2177E-05	0.001255593	0.001217926
Terminal C Garage	Roller	Rollers	Rollers100	100	0.38	48	4,834	2251.00	1.1649027	1.832803	0.133911	0.001911	0.183217	0.177721	0.001098387	0.001728	0.000126265	1.80187E-06	0.000172755	0.000167573
Terminal C Garage	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	45	7,900	3660.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0.001058824	0.001891	0.000282943	2.02265E-06	0.000189477	0.000183793
Terminal C Garage	Scraper	Scrapers	Scrapers600	600	0.42	56	33,856	15685.00	0.3009022	0.719062	0.042852	0.001342	0.047486	0.046061	0.002185072	0.005222	0.000311176	9.74179E-06	0.00034483	0.000334485
Terminal C Garage	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	4	267	133.00	0.1537371	2.064794	0.041035	0.001883	0.014877	0.014431	8.33947E-06	0.000112	2.22596E-06	1.02143E-07	8.07014E-07	7.82804E-07
Terminal C Garage	Slip Form Paver	Pavers	Pavers175	175	0.42	45	7,900	3660.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0.000970527	0.00252	0.000196557	2.66285E-06	0.000164347	0.000159416
Terminal C Garage	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	45	1,129	523.00	1.2597655	3.16474	0.298061	0.00233	0.143726	0.139414	0.000217881	0.000547	5.15508E-05	4.03003E-07	2.48579E-05	2.41122E-05
Terminal C Garage	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	5	533	267.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	8.11277E-05	0.000131	1.20798E-05	2.20835E-07	1.18894E-05	1.15327E-05
Terminal C Garage	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	2,551	255,082	63509.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0.013808279	0.022142	0.001336923	2.58046E-05	0.002212344	0.002145973
Terminal C Garage	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,262	126,158	31411.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0.009544204	0.015379	0.001421116	2.59799E-05	0.001398718	0.001356757
Terminal C Garage	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	3,451	345,089	85370.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0.013885589	0.033188	0.001129443	5.3296E-05	0.002224217	0.00215749
Terminal C Garage	Forklift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.20	2,066	206,640	51120.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0.005364363	0.012821	0.000436333	2.05896E-05	0.000859273	0.000833495
Terminal C Garage	Trencher	Other Construction Equipment	Other Construction Equipment75	75	0.42	1,033	77,490	19170.00	0.766513	2.38561	0.123061	0.001781	0.107232	0.104015	0.006802953	0.021173	0.001092193	1.5804E-05	0.000951705	0.000923154
Terminal C Garage	40 Ton Rough Terrain	Cranes	Cranes300	300	0.29	1,384	415,346	102751.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0.004619057	0.020065	0.001331898	4.90604E-05	0.000977155	0.00094784
Terminal C Garage	40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	349	104,760	26280.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0.001181388	0.005132	0.000340651	1.25479E-05	0.000249921	0.000242423

Terminal C Garage	90 Ton Crane	Cranes	Cranes300	300	0.29	1,397	419,040	105120.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0.004725553	0.020528	0.001362606	5.01915E-05	0.000999684	0.000969693
Terminal C Garage	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,166	116,633	29258.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0.008890017	0.014325	0.001323709	2.41992E-05	0.001302846	0.001263761
Terminal C Garage	Caisson Drilling Rig	Other Construction Equipment	Other Construction Equipment175	175	0.42	349	61,110	15330.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0.002612645	0.00717	0.000469386	1.09832E-05	0.000621834	0.000603179
Terminal C Garage	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	262	2,881	723.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0.000603634	0.001025	0.000204475	6.77885E-07	5.85809E-05	5.68235E-05
Terminal C Garage	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,921	1,152,360	289080.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0.017803542	0.046446	0.002767754	0.000169508	0.003168182	0.003073136
Terminal C Garage	Trencher for U/G Piping	Other Construction Equipment	Other Construction Equipment75	75	0.42	580	43,475	10906.00	0.766513	2.38561	0.123061	0.001781	0.107232	0.104015	0.003870266	0.012045	0.000621359	8.99106E-06	0.000541434	0.000525191
Terminal C Garage	Concrete Boom Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	1,048	11,524	2891.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0.0024137	0.004097	0.000817619	2.7106E-06	0.000234243	0.000227215
Terminal C Garage	Trowel Machines (4) machines	Other Construction Equipment	Other Construction Equipment600	600	0.42	698	419,040	105120.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0.03428687	0.07272	0.004812824	7.48756E-05	0.005113588	0.004960179
Terminal E	90 Ton Crane	Cranes	Cranes300	300	0.29	1,172	351,470	0.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0	0	0	0	0	0
Terminal E	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	1,292	129,157	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal E	Chain Saws	Other Construction Equipment	Other Construction Equipment11	11	0.42	40	440	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Terminal E	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	44	483	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Terminal E	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	220	131,760	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Terminal E	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	12,505	1,250,473	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal E	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	40	4,000	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal E	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.31	498	19,920	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal E	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	3,368	336,757	0.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0	0	0	0	0	0
Terminal E	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	10,980	823,500	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Terminal E	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	88	6,588	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Terminal E	Mulcher	Other Construction Equipment	Other Construction Equipment100	100	0.42	40	4,000	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal E	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	44	26,352	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Terminal E	Bulldozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.37	40	7,000	0.00	0.1481308	0.412914	0.026071	0.001371	0.034607	0.033569	0	0	0	0	0	0
Terminal E	Grub the site down 2'-0	Other Construction Equipment	Other Construction Equipment40	40	0.42	40	1,600	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal E	Log Chipper	Other Construction Equipment	Other Construction Equipment100	100	0.43	40	4,000	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal E	Tractor	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	80	8,000	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal E	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.31	17	1,663	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal E	Curb/Gutter Paver	Pavers	Pavers175	175	0.42	4	742	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Terminal E	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	33	5,838	0.00	0.1481308	0.412914	0.026071	0.001371	0.034607	0.033569	0	0	0	0	0	0
Terminal E	Grader	Graders	Graders300	300	0.41	5	1,641	0.00	0.3151243	0.920446	0.074546	0.001381	0.050019	0.048518	0	0	0	0	0	0
Terminal E	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	19	3,315	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Terminal E	Pumps	Other Construction Equipment	Other Construction Equipment11	11	0.43	4	48	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Terminal E	Roller	Rollers	Rollers100	100	0.38	29	2,920	0.00	1.1649027	1.832803	0.133911	0.001911	0.183217	0.177721	0	0	0	0	0	0
Terminal E	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	17	2,910	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Terminal E	Scraper	Scrapers	Scrapers600	600	0.42	21	12,472	0.00	0.3009022	0.719062	0.042852	0.001342	0.047486	0.046061	0	0	0	0	0	0
Terminal E	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	75	0.37	9	707	0.00	0.1537371	2.064794	0.041035	0.001883	0.014877	0.014431	0	0	0	0	0	0
Terminal E	Slip Form Paver	Pavers	Pavers175	175	0.42	17	2,910	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Terminal E	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	17	416	0.00	1.2597655	3.16474	0.298061	0.00233	0.143726	0.139414	0	0	0	0	0	0
Terminal E	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	26	2,566	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal E	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	600	24,000	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal F	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	226	22,563	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal F	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	8,183	818,296	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal F	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	77,622	7,762,232	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal F	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	289	50,617	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Terminal F	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	592	59,170	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Terminal F	Auger Drill	Other Construction Equipment	Other Construction Equipment175	175	0.42	72	12,600	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Terminal F	Curb/Gutter Paver	Pavers	Pavers175	175	0.42	20	3,500	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Terminal F	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	100	0.37	72	7,200	0.00	0.7449887	1.20042	0.110928	0.002028	0.109179	0.105904	0	0	0	0	0	0
Terminal F	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	592	103,548	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Terminal F	Slip Form Paver	Pavers	Pavers175	175	0.42	592	103,548	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Terminal F	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	592	14,793	0.00	1.2597655	3.16474	0.298061	0.00233	0.143726	0.139414	0	0	0	0	0	0
Terminal F	Vibratory Compactor	Plate Compactors	Plate Compactors6	6	0.43	40	240	0.00	2.0175968	3.403196	0.673101	0.002227	0.199074	0.193102	0	0	0	0	0	0
Terminal F	40 Ton Rough Terrain Crane	Cranes	Cranes300	300	0.29	160	48,000	0.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0	0	0	0	0	0
Terminal F	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	20,025	2,002,496	0.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0	0	0	0	0	0
Terminal F	Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	600	0.42	177	106,418	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Terminal F	40 Ton Crane	Cranes	Cranes300	300	0.29	2,616	784,800	0.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0	0	0	0	0	0
Terminal F	90 Ton Crane	Cranes	Cranes300	300	0.29	6,911	2,073,288	0.00	0.1406251	0.610879	0.040549	0.001494	0.029749	0.028857	0	0	0	0	0	0
Terminal F	Caisson Drilling Rig	Other Construction Equipment	Other Construction Equipment175	175	0.42	495	86,625	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Terminal F	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	558	6,139	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Terminal F	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	600	0.43	1,295	777,240	0.00	0.1299312	0.338964	0.020199	0.001237	0.023122	0.022428	0	0	0	0	0	0
Terminal F	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	6,477	259,080	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Terminal F	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	64,770	4,857,750	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Terminal F	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	518	38,862	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Terminal F	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	259	155,448	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Terminal F	Self Propelled Modular Transport	Other Construction Equipment	Other Construction Equipment600	***600***	0.42	600	294,000	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Tunnels	Air Compressor	Other Construction Equipment	Other Construction Equipment100	100	0.55	19	1,850	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Tunnels	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	40	0.59	19	740	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Tunnels	Concrete Truck Pump	Other Construction Equipment	Other Construction Equipment11	11	0.43	673	7,405	0.00	1.7614088	2.989686	0.596661	0.001978	0.17094	0.165812	0	0	0	0	0	0
Tunnels	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	175	0.43	1,849	323,588	0.00	0.1481308	0.412914	0.026071	0.001371	0.034607	0.033569	0	0	0	0	0	0
Tunnels	Excavator	Excavators	Excavators175	175	0.38	1,479	258,871	0.00	0.1250957	0.366775	0.020938	0.00143	0.030485	0.02957	0	0	0	0	0	0
Tunnels	Fork Truck	Other Construction Equipment	Other Construction Equipment100	100	0.20	2,551	255,086	0.00	0.9862063	1.581427	0.095485	0.001843	0.158009	0.153268	0	0	0	0	0	0
Tunnels	Generator	Other Construction Equipment	Other Construction Equipment40	40	0.53	142	5,669	0.00	0.2922577	2.200675	0.08977	0.001715	0.028766	0.027903	0	0	0	0	0	0
Tunnels	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	600	0.43	945	566,857	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
Tunnels	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	100	0.31	1,417	141,714	0.00	0.4759823	1.137633	0.038716	0.001827	0.076244	0.073956	0	0	0	0	0	0
Tunnels	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	75	0.31	3,779	283,429	0.00	0.4106762	2.259768	0.0719	0.001749	0.046976	0.045567	0	0	0	0	0	0
Tunnels	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	175	0.42	37	6,475	0.00	0.3681141	1.010217	0.066135	0.001547	0.087615	0.084986	0	0	0	0	0	0
Tunnels	Roller	Rollers	Rollers100	100	0.38	1,479	147,926	0.00	1.1649027	1.832803	0.133911	0.001911	0.183217	0.177721	0	0	0	0	0	0
Tunnels	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	175	0.37	19	3,238	0.00	0.7093073	1.266942	0.189544	0.001355	0.126931	0.123123	0	0	0	0	0	0
Tunnels	Scraper	Scrapers	Scrapers600	600	0.42	1,849	1,109,445	0.00	0.3009022	0.719062	0.042852	0.001342	0.047486	0.046061	0	0	0	0	0	0
Tunnels	Slip Form Paver	Pavers	Pavers175	175	0.42	19	3,238	0.00	0.5727572	1.487033	0.115999	0.001571	0.096989	0.09408	0	0	0	0	0	0
Tunnels	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	25	0.30	19	463	0.00	1.2597655	3.16474	0.298061	0.00233	0.143726	0.139414	0	0	0	0	0	0
Tunnels	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	600	0.42	449	269,257	0.00	0.7045092	1.494208	0.098891	0.001539	0.105071	0.101919	0	0	0	0	0	0
												TOTAL (Tons Per Year)			***0.606186459***	***1.630243***	***0.093505337***	***0.002257887***	***0.098610083***	***0.095651776***

2028 NONROAD Construction Emissions

Appendix A. Detailed Construction Phase Nonroad Emissions Data

Table A5. Nonroad Equipment Construction Activity

All equipment is assumed to use NONROAD Diesel Fuel

Source	Project	Equipment Type	TEXN2.6 Equipment Lookup	Fuel	TEXN2.6 Lookup	Average Horsepower	Load Factor	Total Hours	Total Horsepower -Hours	Horsepower -Hours 2028	MOVES Emissions Rates						Total Emissions (Tons Per Year)					
											3	4	11	7	14	15						
											CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Chain Saw	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.42	58	634	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Goods/Services Dock	Chipper/Stump Grinder	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.43	58	5,760	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Goods/Services Dock	Dozer	Crawler Tractor/Dozers	Nonroad Diesel Fuel	Crawler Tractor/Dozers175	175	0.43	197	34,521	0.00	0.1231144	0.349191	0.021573	0.001361	0.028598	0.02774	0	0	0	0	0	0
	Terminal A	Bob Cat	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes75	75	0.37	948	71,100	0.00	0.7117189	2.441123	0.141558	0.0021	0.094632	0.091793	0	0	0	0	0	0
	Terminal A	Excavator with Bucket	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	474	82,950	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal A	Generator Sets	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.31	474	18,960	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal C	Bob Cat	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes75	75	0.37	2,610	195,750	0.00	0.7117189	2.441123	0.141558	0.0021	0.094632	0.091793	0	0	0	0	0	0
Sheet 1	Terminal C	Excavator with Bucket	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	1,305	228,375	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal C	Generator Sets	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.31	1,305	52,200	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal C Garage	Bob Cat	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes75	75	0.37	16,800	1,260,000	0.00	0.7117189	2.441123	0.141558	0.0021	0.094632	0.091793	0	0	0	0	0	0
	Terminal C Garage	Excavator with Bucket	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	9,334	1,633,392	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal C Garage	Generator Sets	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.31	8,400	336,000	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal C Garage	Excavator with Hoe Ram	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	934	163,392	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal E	Concrete Saws	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.59	227	9,089	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal E	Excavator	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	234	41,008	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal E	Other General Equipment	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	283	49,491	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Terminal F	Bob Cat	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes75	75	0.37	338	25,380	0.00	0.7117189	2.441123	0.141558	0.0021	0.094632	0.091793	0	0	0	0	0	0
	Terminal F	Chain Saws	Other Construction Equipment	Gasoline	Other Construction Equipment11	11	0.53	80	880	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Terminal F	Concrete Saws	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.59	3,709	148,353	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal F	Dozer	Crawler Tractor/Dozers	Nonroad Diesel Fuel	Crawler Tractor/Dozers175	175	0.43	1,098	192,146	0.00	0.1231144	0.349191	0.021573	0.001361	0.028598	0.02774	0	0	0	0	0	0
	Terminal F	Excavator	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	3,739	654,255	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal F	Excavator with Bucket	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	169	29,610	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal F	Generator Sets	Other Construction Equipment	Gasoline	Other Construction Equipment40	40	0.53	169	6,768	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal F	Grader	Graders	Nonroad Diesel Fuel	Graders300	300	0.41	125	37,640	0.00	0.270609	0.791917	0.063466	0.001363	0.042793	0.041509	0	0	0	0	0	0
Sheet 2	Terminal F	Hydraulic Hammer	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.31	3,117	545,496	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Terminal F	Mulcher	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.42	80	8,000	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal F	Other General Equipment	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	4,898	857,192	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Terminal F	Roller	Rollers	Nonroad Diesel Fuel	Rollers100	100	0.38	804	80,430	0.00	1.0054964	1.663162	0.112605	0.001883	0.156941	0.152232	0	0	0	0	0	0
	Terminal F	Scraper	Scrapers	Nonroad Diesel Fuel	Scrapers600	600	0.42	508	305,070	0.00	0.252589	0.605389	0.036752	0.001325	0.040496	0.039281	0	0	0	0	0	0
	Terminal F	Skid Steer Loader	Skid Steer Loaders	Nonroad Diesel Fuel	Skid Steer Loaders75	75	0.37	221	16,549	0.00	0.1536766	2.064747	0.041032	0.001883	0.014862	0.014416	0	0	0	0	0	0
	Batch Plant Terminal A/C	Concrete Ready Mix Trucks	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.43	1,038	623,004	10937.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0.000541112	0.00144	8.92684E-05	6.36359E-06	9.96999E-05	9.67089E-05
	Batch Plant Terminal A/C	Generator Sets	Other Construction Equipment	Gasoline	Other Construction Equipment40	40	0.53	1,558	62,300	1094.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0.000174975	0.001395	5.47135E-05	1.09013E-06	1.61912E-05	1.57055E-05
	Batch Plant Terminal A/C	Skid Steer Loader	Skid Steer Loaders	Nonroad Diesel Fuel	Skid Steer Loaders75	75	0.37	1,038	77,876	1367.00	0.1536766	2.064747	0.041032	0.001883	0.014862	0.014416	8.5681E-05	0.001151	2.28771E-05	1.04985E-06	8.28624E-06	8.03766E-06
	Batch Plant Terminal A/C	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes300	300	0.42	1,038	311,502	5468.00	0.275779	0.518122	0.075043	0.001434	0.052794	0.05121	0.000698145	0.001312	0.000189975	3.63058E-06	0.000133649	0.000129639
	Batch Plant Terminal E/F	Concrete Ready Mix Trucks	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.43	639	383,516	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Batch Plant Terminal E/F	Generator Sets	Other Construction Equipment	Gasoline	Other Construction Equipment40	40	0.53	959	38,352	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Batch Plant Terminal E/F	Skid Steer Loader	Skid Steer Loaders	Nonroad Diesel Fuel	Skid Steer Loaders75	75	0.37	639	47,939	0.00	0.1536766	2.064747	0.041032	0.001883	0.014862	0.014416	0	0	0	0	0	0
	Batch Plant Terminal E/F	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes300	300	0.42	639	191,758	0.00	0.275779	0.518122	0.075043	0.001434	0.052794	0.05121	0	0	0	0	0	0
	Goods/Services Dock	40 Ton Rough Terrain Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	16	4,800	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Goods/Services Dock	Air Compressor	Other Construction Equipment	Gasoline	Other Construction Equipment100	100	0.55	5	463	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Goods/Services Dock	Auger Drill	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	24	4,200	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Goods/Services Dock	Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	800	80,000	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
Sheet 3	Goods/Services Dock	Bob Cat	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes75	75	0.37	24	1,800	0.00	0.7117189	2.441123	0.141558	0.0021	0.094632	0.091793	0	0	0	0	0	0
	Goods/Services Dock	Concrete Ready Mix Trucks	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.43	200	120,000	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Goods/Services Dock	Concrete Saws	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.59	5	185	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Goods/Services Dock	Curb/Gutter Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	20	3,500	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
	Goods/Services Dock	Excavator	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	127	22,281	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Goods/Services Dock	Fork Truck	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.20	1,844	184,400	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Goods/Services Dock	Front Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	24	2,400	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Goods/Services Dock	High Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.31	616	61,600	0.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0	0	0	0	0	0
	Goods/Services Dock	Hydroseeder	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.42	2	1,071	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Goods/Services Dock	Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	39	6,776	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Goods/Services Dock	Off-Road Truck	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.38	2	1,071	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Goods/Services Dock	Other General Equipment	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	118	20,651	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Goods/Services Dock	Paving Machine	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	32	5,600	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
	Goods/Services Dock	Pumps	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	2	18	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Goods/Services Dock	Roller	Rollers	Nonroad Diesel Fuel	Rollers100	100	0.38	146	14,617	0.00	1.0054964	1.663162	0.112605	0.001883	0.156941	0.152232	0	0	0	0	0	0
	Goods/Services Dock	Rubber Tired Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	5	809	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Goods/Services Dock	Skid Steer Loader	Skid Steer Loaders	Nonroad Diesel Fuel	Skid Steer Loaders75	75	0.37	33	2,490	0.00	0.1536766	2.064747	0.041032	0.001883	0.014862	0.014416	0	0	0	0	0	0
	Goods/Services Dock	Slip Form Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	5	809	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
Sheet 4	Goods/Services Dock	Surfacing Equipment (Grooving)	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment25	25	0.30	5	116	0.00	1.2538087	3.162954	0.296687	0.00233	0.142831	0.138546	0	0	0	0	0	0
	Goods/Services Dock	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	44	4,387	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Goods/Services Dock	90 Ton Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	400	120,000	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Goods/Services Dock	Concrete Pump	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	24	264	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Goods/Services Dock	Grout Mixer for Mortar	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.43	240	144,000	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Goods/Services Dock	High Lift Fork Truck	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.20	400	40,000	0.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0	0	0	0	0	0
	Goods/Services Dock	Man Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	1,300	97,500	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Goods/Services Dock	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	240	18,000	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Goods/Services Dock	Masonry Saw	Other Construction Equipment	Gasoline	Other Construction Equipment40	40	0.53	240	9,600	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Goods/Services Dock	Trowel Machine	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.42	54	32,400	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Goods/Services Dock	Concrete Truck Pump	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	57	627	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0

	Goods/Services Dock	Generator	Other Construction Equipment	Gasoline	Other Construction Equipment40	40	0.53	12	480	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Goods/Services Dock	Grout Mixer	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.43	80	48,000	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Goods/Services Dock	Scraper	Scrapers	Nonroad Diesel Fuel	Scrapers600	600	0.42	139	83,250	0.00	0.252589	0.605389	0.036752	0.001325	0.040496	0.039281	0	0	0	0	0	0
	Terminal A	Other General Equipment	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	855	149,665	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Terminal A	Skid Steer Loader	Skid Steer Loaders	Nonroad Diesel Fuel	Skid Steer Loaders75	75	0.37	176	13,229	0.00	0.1536766	2.064747	0.041032	0.001883	0.014862	0.014416	0	0	0	0	0	0
	Terminal A	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	203	20,340	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
Sheet 5	Terminal A	40 Ton Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	6,240	1,872,000	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Terminal A	Fork Truck	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.20	21,584	2,158,364	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal A	Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	1,408	140,844	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal A	Concrete Ready Mix Trucks	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.43	264	158,400	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Terminal A	Generator	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.31	1,446	57,856	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal A	High Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.31	5,312	531,244	0.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0	0	0	0	0	0
	Terminal A	Man Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	20,910	1,568,280	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Terminal A	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	106	7,920	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Terminal A	Air Compressor	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.31	161	16,092	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal A	Concrete Saws	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.59	161	6,437	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal A	Dozer	Crawler Tractor/Dozers	Nonroad Diesel Fuel	Crawler Tractor/Dozers175	175	0.43	300	52,570	0.00	0.1231144	0.349191	0.021573	0.001361	0.028598	0.02774	0	0	0	0	0	0
	Terminal A	Excavator	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	210	36,673	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal A	Grader	Graders	Nonroad Diesel Fuel	Graders300	300	0.41	51	15,182	0.00	0.270609	0.791917	0.063466	0.001363	0.042793	0.041509	0	0	0	0	0	0
	Terminal A	Grout Mixer	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.43	664	398,160	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Terminal A	Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	88	15,330	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Terminal A	Roller	Rollers	Nonroad Diesel Fuel	Rollers100	100	0.38	260	26,017	0.00	1.0054964	1.663162	0.112605	0.001883	0.156941	0.152232	0	0	0	0	0	0
	Terminal A	Rubber Tired Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	161	28,161	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Terminal A	Scraper	Scrapers	Nonroad Diesel Fuel	Scrapers600	600	0.42	201	120,692	0.00	0.252589	0.605389	0.036752	0.001325	0.040496	0.039281	0	0	0	0	0	0
	Terminal A	Slip Form Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	161	28,161	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
Sheet 6	Terminal A	Surfacing Equipment (Grooving)	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment25	25	0.30	161	4,023	0.00	1.2538087	3.162954	0.296687	0.00233	0.142831	0.138546	0	0	0	0	0	0
	Terminal A	Truck Tower (Mantiwoc type)	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks300	300	0.29	126	37,920	0.00	0.0393009	0.149292	0.011178	0.001464	0.009988	0.009688	0	0	0	0	0	0
	Terminal A	Distributing Tanker	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.42	32	19,354	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Terminal A	Self Propelled Modular Transport	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	***600***	0.42	200	98,000	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Terminal C	40 Ton Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	5,520	1,656,000	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Terminal C	Fork Truck	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.20	25,990	2,599,038	334280.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0.059533825	0.105518	0.00570837	0.000133408	0.009602558	0.009314481
	Terminal C	Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	1,216	121,638	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal C	Concrete Ready Mix Trucks	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.43	228	136,800	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Terminal C	Generator	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.31	1,488	59,520	4384.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0.000410125	0.003269	0.000128243	2.55516E-06	3.79506E-05	3.68121E-05
	Terminal C	Grout Mixer	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.43	1,827	1,096,200	345240.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0.098430161	0.211148	0.013862856	0.000247442	0.014813974	0.014369556
	Terminal C	High Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.31	7,672	767,238	131520.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0.017161172	0.046534	0.00137686	8.13187E-05	0.002773822	0.002690607
	Terminal C	Man Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	32,802	2,460,150	505530.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0.058469857	0.383701	0.01097514	0.000298394	0.00653739	0.00634127
	Terminal C	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	91	6,840	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Terminal C	Truck Tower (Mantiwoc type)	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks300	300	0.29	870	261,000	82200.00	0.0393009	0.149292	0.011178	0.001464	0.009988	0.009688	0.00103271	0.003923	0.000293727	3.84719E-05	0.000262454	0.00025458
	Terminal C	Air Compressor	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.31	400	39,960	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal C	Concrete Saws	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.59	400	15,984	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal C	Dozer	Crawler Tractor/Dozers	Nonroad Diesel Fuel	Crawler Tractor/Dozers175	175	0.43	781	136,760	0.00	0.1231144	0.349191	0.021573	0.001361	0.028598	0.02774	0	0	0	0	0	0
Sheet 7	Terminal C	Excavator	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	464	81,242	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Terminal C	Grader	Graders	Nonroad Diesel Fuel	Graders300	300	0.41	123	36,996	0.00	0.270609	0.791917	0.063466	0.001363	0.042793	0.041509	0	0	0	0	0	0
	Terminal C	Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	121	21,190	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Terminal C	Other General Equipment	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	2,359	412,800	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Terminal C	Roller	Rollers	Nonroad Diesel Fuel	Rollers100	100	0.38	588	58,756	0.00	1.0054964	1.663162	0.112605	0.001883	0.156941	0.152232	0	0	0	0	0	0
	Terminal C	Rubber Tired Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	400	69,930	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Terminal C	Scraper	Scrapers	Nonroad Diesel Fuel	Scrapers600	600	0.42	500	299,700	0.00	0.252589	0.605389	0.036752	0.001325	0.040496	0.039281	0	0	0	0	0	0
	Terminal C	Skid Steer Loader	Skid Steer Loaders	Nonroad Diesel Fuel	Skid Steer Loaders75	75	0.37	65	4,873	0.00	0.1536766	2.064747	0.041032	0.001883	0.014862	0.014416	0	0	0	0	0	0
	Terminal C	Slip Form Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	400	69,930	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
	Terminal C	Surfacing Equipment (Grooving)	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment25	25	0.30	400	9,990	0.00	1.2538087	3.162954	0.296687	0.00233	0.142831	0.138546	0	0	0	0	0	0
	Terminal C	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	101	10,089	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal C	Distributing Tanker	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.42	160	95,904	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Terminal C	Self Propelled Modular Transport	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	***600***	0.42	200	98,000	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Terminal C Garage	Air Compressor	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.31	45	4,514	2423.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0.000668865	0.001186	6.41338E-05	1.49884E-06	0.000107885	0.000104649
	Terminal C Garage	Concrete Saws	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.59	45	1,806	969.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0.000172528	0.001375	5.39482E-05	1.07488E-06	1.59648E-05	1.54858E-05
	Terminal C Garage	Curb/Gutter Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	3	560	280.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	6.42011E-05	0.000169	1.29076E-05	2.00598E-07	1.09762E-05	1.06469E-05
	Terminal C Garage	Dozer	Crawler Tractor/Dozers	Nonroad Diesel Fuel	Crawler Tractor/Dozers175	175	0.43	60	10,435	5580.00	0.1231144	0.349191	0.021573	0.001361	0.028598	0.02774	0.000325625	0.000924	5.70584E-05	3.59848E-06	7.56392E-05	7.33701E-05
Sheet 8	Terminal C Garage	Excavator	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	516	90,347	4520.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0.000195978	0.000586	3.28136E-05	2.68954E-06	4.7656E-05	4.62263E-05
	Terminal C Garage	Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	5	871	436.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0.000108689	0.000196	2.86669E-05	2.37203E-07	1.9759E-05	1.91662E-05
	Terminal C Garage	Other General Equipment	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	381	66,653	35698.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0.004971182	0.014212	0.000893312	2.51221E-05	0.001196124	0.00116024
	Terminal C Garage	Roller	Rollers	Nonroad Diesel Fuel	Rollers100	100	0.38	48	4,834	2583.00	1.0054964	1.663162	0.112605	0.001883	0.156941	0.152232	0.001087915	0.001799	0.000121835	2.03725E-06	0.000169805	0.000164711
	Terminal C Garage	Rubber Tired Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	45	7,900	4240.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0.001056979	0.001907	0.000278779	2.30674E-06	0.000192151	0.000186387
	Terminal C Garage	Scraper	Scrapers	Nonroad Diesel Fuel	Scrapers600	600	0.42	56	33,856	18171.00	0.252589	0.605389	0.036752	0.001325	0.040496	0.039281	0.002124952	0.005093	0.000309179	1.11454E-05	0.000340677	0.000330457
	Terminal C Garage	Skid Steer Loader	Skid Steer Loaders	Nonroad Diesel Fuel	Skid Steer Loaders75	75	0.37	4	267	133.00	0.1536766	2.064747	0.041032	0.001883	0.014862	0.014416	8.33619E-06	0.000112	2.22579E-06	1.02143E-07	8.06196E-07	7.8201E-07
	Terminal C Garage	Slip Form Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	45	7,900	4240.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0.000972189	0.002555	0.000195457	3.03763E-06	0.000166211	0.000161224
	Terminal C Garage	Surfacing Equipment (Grooving)	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment25	25	0.30	45	1,129	606.00	1.2538087	3.162954	0.296687	0.00233	0.142831	0.138546	0.000251265	0.000634	5.94565E-05	4.66964E-07	2.86235E-05	2.77648E-05
	Terminal C Garage	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	5	533	267.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	6.94863E-05	0.000122	1.01119E-05	2.19386E-07	1.0196E-05	9.8901E-06
	Terminal C Garage	Fork Truck	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.20	2,551	255,082	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal C Garage	Front Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	1,262	126,158	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal C Garage	High Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.31	3,451	345,089	0.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0	0	0	0	0	0
	Terminal C Garage	Forklift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.20	2,066	206,640	0.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0	0	0	0	0	0
	Terminal C Garage	Trencher	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment75	75	0.42	1,033	77,490	0.00	0.660118	2.31797	0.107451	0.001747	0.089576	0.086889	0	0	0	0	0	0
	Terminal C Garage	40 Ton Rough Terrain	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	1,384	415,346	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Terminal C Garage	40 Ton Rough Terrain Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	349	104,760	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
Sheet 9	Terminal C Garage	90 Ton Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	1,397	419,040	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Terminal C Garage	Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	1,166	116,633	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal C Garage	Caisson Drilling Rig	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	349	61,110	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Terminal C Garage	Concrete Pump	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	262	2,881	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Terminal C Garage	Concrete Ready Mix Trucks	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.43	1,921	1,152,360	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Terminal C Garage	Trencher for U/G Piping	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment75	75	0.42	580	43,475	0.00	0.660118	2.31797	0.107451	0.001747	0.089576	0.086889	0	0	0	0	0	0

	Terminal C Garage	Concrete Boom Pump	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	1,048	11,524	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Terminal C Garage	Trowel Machines (4) machines	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.42	698	419,040	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Terminal E	90 Ton Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	1,172	351,470	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Terminal E	Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	1,292	129,157	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal E	Chain Saws	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.42	40	440	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Terminal E	Concrete Pump	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	44	483	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Terminal E	Concrete Ready Mix Trucks	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.43	220	131,760	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Terminal E	Fork Truck	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.20	12,505	1,250,473	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal E	Front Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	40	4,000	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal E	Generator	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.31	498	19,920	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal E	High Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.31	3,368	336,757	0.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0	0	0	0	0	0
	Terminal E	Man Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	10,980	823,500	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Terminal E	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	88	6,588	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
Sheet 10	Terminal E	Mulcher	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.42	40	4,000	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal E	Trowel Machine	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.42	44	26,352	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Terminal E	Bulldozer	Crawler Tractor/Dozers	Nonroad Diesel Fuel	Crawler Tractor/Dozers175	175	0.37	40	7,000	0.00	0.1231144	0.349191	0.021573	0.001361	0.028598	0.02774	0	0	0	0	0	0
	Terminal E	Grub the site down 2'-0	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.42	40	1,600	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal E	Log Chipper	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.43	40	4,000	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal E	Tractor	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	80	8,000	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal E	Air Compressor	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.31	17	1,663	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal E	Curb/Gutter Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	4	742	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
	Terminal E	Dozer	Crawler Tractor/Dozers	Nonroad Diesel Fuel	Crawler Tractor/Dozers175	175	0.43	33	5,838	0.00	0.1231144	0.349191	0.021573	0.001361	0.028598	0.02774	0	0	0	0	0	0
	Terminal E	Grader	Graders	Nonroad Diesel Fuel	Graders300	300	0.41	5	1,641	0.00	0.270609	0.791917	0.063466	0.001363	0.042793	0.041509	0	0	0	0	0	0
	Terminal E	Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	19	3,315	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Terminal E	Pumps	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	4	48	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Terminal E	Roller	Rollers	Nonroad Diesel Fuel	Rollers100	100	0.38	29	2,920	0.00	1.0054964	1.663162	0.112605	0.001883	0.156941	0.152232	0	0	0	0	0	0
	Terminal E	Rubber Tired Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	17	2,910	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Terminal E	Scraper	Scrapers	Nonroad Diesel Fuel	Scrapers600	600	0.42	21	12,472	0.00	0.252589	0.605389	0.036752	0.001325	0.040496	0.039281	0	0	0	0	0	0
	Terminal E	Skid Steer Loader	Skid Steer Loaders	Nonroad Diesel Fuel	Skid Steer Loaders75	75	0.37	9	707	0.00	0.1536766	2.064747	0.041032	0.001883	0.014862	0.014416	0	0	0	0	0	0
	Terminal E	Slip Form Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	17	2,910	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
	Terminal E	Surfacing Equipment (Grooving)	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment25	25	0.30	17	416	0.00	1.2538087	3.162954	0.296687	0.00233	0.142831	0.138546	0	0	0	0	0	0
Sheet 11	Terminal E	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	26	2,566	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal E	Generator	Other Construction Equipment	Gasoline	Other Construction Equipment40	40	0.53	600	24,000	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal F	Tractors/Loader/ Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	226	22,563	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal F	Backhoe	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	8,183	818,296	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal F	Fork Truck	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.20	77,622	7,762,232	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal F	Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	289	50,617	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Terminal F	Air Compressor	Other Construction Equipment	Gasoline	Other Construction Equipment100	100	0.55	592	59,170	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Terminal F	Auger Drill	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	72	12,600	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Terminal F	Curb/Gutter Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	20	3,500	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
	Terminal F	Front Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes100	100	0.37	72	7,200	0.00	0.6380869	1.120246	0.092857	0.002015	0.093629	0.09082	0	0	0	0	0	0
	Terminal F	Rubber Tired Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	592	103,548	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Terminal F	Slip Form Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	592	103,548	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
	Terminal F	Surfacing Equipment (Grooving)	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment25	25	0.30	592	14,793	0.00	1.2538087	3.162954	0.296687	0.00233	0.142831	0.138546	0	0	0	0	0	0
	Terminal F	Vibratory Compactor	Plate Compactors	Nonroad Diesel Fuel	Plate Compactors6	6	0.43	40	240	0.00	2.0060173	3.400742	0.674988	0.002227	0.196209	0.190323	0	0	0	0	0	0
	Terminal F	40 Ton Rough Terrain Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	160	48,000	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Terminal F	High Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.31	20,025	2,002,496	0.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0	0	0	0	0	0
	Terminal F	Distributing Tanker	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.42	177	106,418	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Terminal F	40 Ton Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	2,616	784,800	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
Sheet 12	Terminal F	90 Ton Crane	Cranes	Nonroad Diesel Fuel	Cranes300	300	0.29	6,911	2,073,288	0.00	0.1152104	0.500068	0.033655	0.001475	0.024735	0.023993	0	0	0	0	0	0
	Terminal F	Caisson Drilling Rig	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	495	86,625	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Terminal F	Concrete Pump	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	558	6,139	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Terminal F	Concrete Ready Mix Trucks	Off-highway Trucks	Nonroad Diesel Fuel	Off-highway Trucks600	600	0.43	1,295	777,240	0.00	0.1043792	0.277866	0.01722	0.001228	0.019232	0.018655	0	0	0	0	0	0
	Terminal F	Generator	Other Construction Equipment	Gasoline	Other Construction Equipment40	40	0.53	6,477	259,080	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Terminal F	Man Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	64,770	4,857,750	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Terminal F	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	518	38,862	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Terminal F	Trowel Machine	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.42	259	155,448	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Terminal F	Self Propelled Modular Transport	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	***600***	0.42	600	294,000	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Tunnels	Air Compressor	Other Construction Equipment	Gasoline	Other Construction Equipment100	100	0.55	19	1,850	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Tunnels	Concrete Saws	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment40	40	0.59	19	740	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Tunnels	Concrete Truck Pump	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment11	11	0.43	673	7,405	0.00	1.7589313	2.990116	0.597587	0.001978	0.170246	0.165139	0	0	0	0	0	0
	Tunnels	Dozer	Crawler Tractor/Dozers	Nonroad Diesel Fuel	Crawler Tractor/Dozers175	175	0.43	1,849	323,588	0.00	0.1231144	0.349191	0.021573	0.001361	0.028598	0.02774	0	0	0	0	0	0
	Tunnels	Excavator	Excavators	Nonroad Diesel Fuel	Excavators175	175	0.38	1,479	258,871	0.00	0.1035093	0.309722	0.017331	0.001421	0.02517	0.024415	0	0	0	0	0	0
	Tunnels	Fork Truck	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment100	100	0.20	2,551	255,086	0.00	0.8078242	1.431794	0.077458	0.00181	0.130299	0.12639	0	0	0	0	0	0
	Tunnels	Generator	Other Construction Equipment	Gasoline	Other Construction Equipment40	40	0.53	142	5,669	0.00	0.2737646	2.182256	0.085604	0.001706	0.025333	0.024573	0	0	0	0	0	0
	Tunnels	Grout Mixer	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.43	945	566,857	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
	Tunnels	High Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts100	100	0.31	1,417	141,714	0.00	0.3818448	1.035408	0.030636	0.001809	0.061719	0.059867	0	0	0	0	0	0
Sheet 13	Tunnels	Man Lift	Rough Terrain Forklifts	Nonroad Diesel Fuel	Rough Terrain Forklifts75	75	0.31	3,779	283,429	0.00	0.3384674	2.221148	0.063532	0.001727	0.037843	0.036708	0	0	0	0	0	0
	Tunnels	Other General Equipment	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment175	175	0.42	37	6,475	0.00	0.3007876	0.859899	0.054051	0.00152	0.072373	0.070202	0	0	0	0	0	0
	Tunnels	Roller	Rollers	Nonroad Diesel Fuel	Rollers100	100	0.38	1,479	147,926	0.00	1.0054964	1.663162	0.112605	0.001883	0.156941	0.152232	0	0	0	0	0	0
	Tunnels	Rubber Tired Loader	Tractors/Loaders/Backhoes	Nonroad Diesel Fuel	Tractors/Loaders/Backhoes175	175	0.37	19	3,238	0.00	0.6112127	1.103022	0.161208	0.001334	0.111114	0.107781	0	0	0	0	0	0
	Tunnels	Scraper	Scrapers	Nonroad Diesel Fuel	Scrapers600	600	0.42	1,849	1,109,445	0.00	0.252589	0.605389	0.036752	0.001325	0.040496	0.039281	0	0	0	0	0	0
	Tunnels	Slip Form Paver	Pavers	Nonroad Diesel Fuel	Pavers175	175	0.42	19	3,238	0.00	0.495255	1.301351	0.09957	0.001547	0.084671	0.082131	0	0	0	0	0	0
	Tunnels	Surfacing Equipment (Grooving)	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment25	25	0.30	19	463	0.00	1.2538087	3.162954	0.296687	0.00233	0.142831	0.138546	0	0	0	0	0	0
	Tunnels	Trowel Machine	Other Construction Equipment	Nonroad Diesel Fuel	Other Construction Equipment600	600	0.42	449	269,257	0.00	0.6014951	1.290298	0.084714	0.001512	0.090526	0.087811	0	0	0	0	0	0
														TOTAL (Tons Per Year)			***0.248615955***	***0.790261***	***0.034821914***	***0.00086746***	***0.036668449***	***0.035568398***

Appendix A. Detailed Construction Phase Onroad Emissions Data

Table A6. Onroad Vehicle Construction Activity

	Project Type	Construction Activity	Vehicle	MOVES Source Type	Fuel	Emission Process	Activity Surrogate	Activity - 2024	MOVES Emissions Rates CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Total Emissions (Tons Per Year) CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Sheet 1	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD	Miles	793,152	2.920051	0.047073	0.019785	0.002602	0.00158	0.001397	2.553015	0.0411564	0.01729836	0.002274703	0.001381086	0.001221731
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD	Miles	999	2.921487	4.597439	0.09291	0.006063	0.042454	0.039058	0.003217	0.0050628	0.000102314	6.67621E-06	4.67514E-05	4.30111E-05
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	116,205	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	0.129244	0.1724009	0.005679867	0.000372921	0.001880801	0.001730329
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD	Miles	5,145,120	2.920051	0.047073	0.019785	0.002602	0.00158	0.001397	16.56123	0.2669789	0.112213215	0.014755833	0.008959002	0.007925284
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	35,486	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	0.039468	0.0526468	0.001734484	0.00011388	0.000574348	0.000528398
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD	Miles	311,040	2.920051	0.047073	0.019785	0.002602	0.00158	0.001397	1.001182	0.0161398	0.00678367	0.00089204	0.000541602	0.00047911
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	4,787	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	0.005324	0.007102	0.000233979	1.53623E-05	7.74785E-05	7.12799E-05
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD	Miles	1,010,880	2.920051	0.047073	0.019785	0.002602	0.00158	0.001397	3.253843	0.0524543	0.022046929	0.002899131	0.001760207	0.001557109
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	2,624,188	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	2.918648	3.8932274	0.128265028	0.008421448	0.042473004	0.039074975
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD	Miles	9,989,568	2.920051	0.047073	0.019785	0.002602	0.00158	0.001397	32.15464	0.518356	0.217868882	0.02864936	0.017394456	0.015387427
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	28,723	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	0.031946	0.0426132	0.001403922	9.21768E-05	0.000464887	0.000427694
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD	Miles	7,957,122	2.920051	0.047073	0.019785	0.002602	0.00158	0.001397	25.61256	0.4128929	0.173541967	0.022820451	0.013855435	0.01225675
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	815,393	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	0.906888	1.2097115	0.039854769	0.002616729	0.013197298	0.012141455
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD	Miles	155,520	2.920051	0.047073	0.019785	0.002602	0.00158	0.001397	0.500591	0.0080699	0.003391835	0.00044602	0.000270801	0.000239555
Sheet 2	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	28,188	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	0.031351	0.0418195	0.001377773	9.04599E-05	0.000456228	0.000419728
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD	Miles	215	2.921487	4.597439	0.09291	0.006063	0.042454	0.039058	0.000692	0.0010896	2.20194E-05	1.43682E-06	1.00616E-05	9.25664E-06
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD	Miles	0	2.921487	4.597439	0.09291	0.006063	0.042454	0.039058	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD	Miles	0	2.921487	4.597439	0.09291	0.006063	0.042454	0.039058	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD	Miles	429	2.921487	4.597439	0.09291	0.006063	0.042454	0.039058	0.001382	0.0021741	4.39365E-05	2.86696E-06	2.00764E-05	1.84702E-05
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD	Miles	1,187	2.921487	4.597439	0.09291	0.006063	0.042454	0.039058	0.003823	0.0060155	0.000121568	7.93259E-06	5.55494E-05	5.11053E-05
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD	Miles	8,087,040	2.920051	0.047073	0.019785	0.002602	0.00158	0.001397	26.03074	0.4196343	0.176375431	0.023193047	0.014081656	0.012456869
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD	Miles	43,200	2.921487	4.597439	0.09291	0.006063	0.042454	0.039058	0.139121	0.2189305	0.004424372	0.000288701	0.002021681	0.00185994
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	478,688	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	0.532401	0.7101783	0.023397306	0.001536188	0.00774766	0.007127813
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	RPD	Miles	29,280	1.008974	1.345886	0.044341	0.002911	0.014683	0.013508	0.032566	0.0434396	0.001431147	9.39643E-05	0.000473903	0.000435988
									TOTAL (Tons Per Year)						***112.4439***	***8.142094***	***0.937612775***	***0.109591328***	***0.127743973***	***0.115463278***
									MOVES Emissions Rates CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Total Emissions (Tons Per Year) CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_WEAR	Miles	793,152	0	0	0	0	0.028871	0.006373	0	0	0	0	0.025241665	0.005572221
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_WEAR	Miles	999	0	0	0	0	0.427625	0.138622	0	0	0	0	0.000470907	0.000152652
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	116,205	0	0	0	0	0.120219	0.036517	0	0	0	0	0.01539939	0.004677573
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_WEAR	Miles	5,145,120	0	0	0	0	0.028871	0.006373	0	0	0	0	0.163740869	0.0361466
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	35,486	0	0	0	0	0.120219	0.036517	0	0	0	0	0.004702575	0.00142841
Sheet 3	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_WEAR	Miles	311,040	0	0	0	0	0.028871	0.006373	0	0	0	0	0.009898692	0.002185185
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	4,787	0	0	0	0	0.120219	0.036517	0	0	0	0	0.000634369	0.00019269
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_WEAR	Miles	1,010,880	0	0	0	0	0.028871	0.006373	0	0	0	0	0.03217075	0.007101851
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	2,624,188	0	0	0	0	0.120219	0.036517	0	0	0	0	0.347755203	0.105630827
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_WEAR	Miles	9,989,568	0	0	0	0	0.028871	0.006373	0	0	0	0	0.317913001	0.070180855
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	28,723	0	0	0	0	0.120219	0.036517	0	0	0	0	0.003806348	0.00115618
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_WEAR	Miles	7,957,122	0	0	0	0	0.028871	0.006373	0	0	0	0	0.253231425	0.055902079
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	815,393	0	0	0	0	0.120219	0.036517	0	0	0	0	0.1080552	0.032821824
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_WEAR	Miles	155,520	0	0	0	0	0.028871	0.006373	0	0	0	0	0.004949346	0.001092592
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	28,188	0	0	0	0	0.120219	0.036517	0	0	0	0	0.00373545	0.001134645
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_WEAR	Miles	215	0	0	0	0	0.427625	0.138622	0	0	0	0	0.000101346	3.28531E-05
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.427625	0.138622	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.427625	0.138622	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_WEAR	Miles	429	0	0	0	0	0.427625	0.138622	0	0	0	0	0.000202221	6.55535E-05
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_WEAR	Miles	1,187	0	0	0	0	0.427625	0.138622	0	0	0	0	0.000559526	0.00018138
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_WEAR	Miles	8,087,040	0	0	0	0	0.028871	0.006373	0	0	0	0	0.257366	0.056814807
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_WEAR	Miles	43,200	0	0	0	0	0.427625	0.138622	0	0	0	0	0.02036354	0.006601188
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	478,688	0	0	0	0	0.120219	0.036517	0	0	0	0	0.063435334	0.019268516
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	RPD_WEAR	Miles	29,280	0	0	0	0	0.120219	0.036517	0	0	0	0	0.003880161	0.001178601
									TOTAL (Tons Per Year)						***0***	***0***	***0***	***1.637613319***	***0.409519084***	
									MOVES Emissions Rates CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Total Emissions (Tons Per Year) CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_EVAP	Miles	793,152	0	0	0.024722	0	0	0	0	0	0.021614169	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_EVAP	Miles	999	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	116,205	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 4	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_EVAP	Miles	5,145,120	0	0	0.024722	0	0	0	0	0	0.140209564	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	35,486	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_EVAP	Miles	311,040	0	0	0.024722	0	0	0	0	0	0.008476145	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	4,787	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_EVAP	Miles	1,010,880	0	0	0.024722	0	0	0	0	0	0.027547471	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	2,624,188	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_EVAP	Miles	9,989,568	0	0	0.024722	0	0	0	0	0	0.27222552	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	28,723	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_EVAP	Miles	7,957,122	0	0	0.024722	0	0	0	0	0	0.216839374	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	815,393	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_EVAP	Miles	155,520	0	0	0.024722	0	0	0	0	0	0.004238072	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	28,188	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_EVAP	Miles	215	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_EVAP	Miles	429	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_EVAP	Miles	1,187	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPD_EVAP	Miles	8,087,040	0	0	0.024722	0	0	0	0	0	0.220379767	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPD_EVAP	Miles	43,200	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	478,688	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	RPD_EVAP	Miles	29,280	0	0	0	0	0	0	0	0	0	0	0	0
									TOTAL (Tons Per Year)						***0***	***0***	***0.911530083***	***0***	***0***	***0***
									MOVES Emissions Rates CO	NOx	VOC	SO2	PM10	PM2.5	Total Emissions (Tons Per Year) CO	NOx	VOC	SO2	PM10	PM2.5
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_START	One-Way Trips	29,376	4.389521	0.212346	0.326022	0.000629	0.009784	0.008655	0.14214	0.0068761	0.010557134	2.03739E-05	0.00031683	0.000280273
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_START	One-Way Trips	37	0.531307	0.657243	0.117903	0.000118	0.001368	0.001259	2.17E-05	2.681E-05	4.80876E-06	4.80989E-09	5.57988E-08	5.13349E-08
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	4,304	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	0.000518	0.0013941	0.000385765	2.749E-07	2.13001E-06	1.9596E-06

	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_START	One-Way Trips	190,560	4.389521	0.212346	0.326022	0.000629	0.009784	0.008655	0.922052	0.0446048	0.068483372	0.000132164	0.002055254	0.001818114
Sheet 6	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	1,314	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	0.000158	0.0004256	0.000117773	8.39262E-08	6.50287E-07	5.98262E-07
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_START	One-Way Trips	11,520	4.389521	0.212346	0.326022	0.000629	0.009784	0.008655	0.055741	0.0026965	0.004140053	7.98976E-06	0.000124247	0.000109911
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	177	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	2.13E-05	5.733E-05	1.58644E-05	1.13051E-08	8.75958E-08	8.05878E-08
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_START	One-Way Trips	37,440	4.389521	0.212346	0.326022	0.000629	0.009784	0.008655	0.181159	0.0087637	0.013455171	2.59667E-05	0.000403803	0.000357211
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	97,192	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	0.011692	0.0314818	0.008711254	6.20773E-06	4.80995E-05	4.42514E-05
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_START	One-Way Trips	369,984	4.389521	0.212346	0.326022	0.000629	0.009784	0.008655	1.790221	0.086603	0.132964693	0.000256604	0.003990403	0.00352998
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	1,064	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	0.000128	0.0003446	9.53656E-05	6.79585E-08	5.26564E-07	4.84437E-07
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_START	One-Way Trips	294,708	4.389521	0.212346	0.326022	0.000629	0.009784	0.008655	1.425987	0.068983	0.105912036	0.000204396	0.003178526	0.002811779
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	30,200	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	0.003633	0.0097822	0.002706806	1.9289E-06	1.49457E-05	1.375E-05
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_START	One-Way Trips	5,760	4.389521	0.212346	0.326022	0.000629	0.009784	0.008655	0.027871	0.0013483	0.002070026	3.99488E-06	6.21236E-05	5.49556E-05
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	1,044	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	0.000126	0.0003382	9.3573E-05	6.66811E-08	5.16667E-07	4.75332E-07
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_START	One-Way Trips	8	0.531307	0.657243	0.117903	0.000118	0.001368	0.001259	4.69E-06	5.796E-06	1.03973E-06	1.03998E-09	1.20646E-08	1.10994E-08
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_START	One-Way Trips	0	0.531307	0.657243	0.117903	0.000118	0.001368	0.001259	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_START	One-Way Trips	0	0.531307	0.657243	0.117903	0.000118	0.001368	0.001259	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_START	One-Way Trips	16	0.531307	0.657243	0.117903	0.000118	0.001368	0.001259	9.37E-06	1.159E-05	2.07946E-06	2.07995E-09	2.41292E-08	2.21989E-08
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_START	One-Way Trips	44	0.531307	0.657243	0.117903	0.000118	0.001368	0.001259	2.58E-05	3.188E-05	5.71853E-06	5.71987E-09	6.63554E-08	6.10468E-08
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_START	One-Way Trips	299,520	4.389521	0.212346	0.326022	0.000629	0.009784	0.008655	1.449271	0.0701093	0.10764137	0.000207734	0.003230425	0.00285769
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_START	One-Way Trips	1,600	0.531307	0.657243	0.117903	0.000118	0.001368	0.001259	0.000937	0.0011592	0.000207946	2.07995E-07	2.41292E-06	2.21989E-06
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	17,729	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	0.002133	0.0057427	0.001589038	1.13236E-06	8.77393E-06	8.07199E-06
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	RPV_START	One-Way Trips	1,084	0.10913	0.293848	0.08131	5.79E-05	0.000449	0.000413	0.00013	0.0003511	9.71582E-05	6.92359E-08	5.36462E-07	4.93543E-07
									TOTAL (Tons Per Year)						***6.013978***	***0.341138***	***0.459258047***	***0.000869288***	***0.013440451***	***0.011892446***
									MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
									CO	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**	**CO**	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	DIURNAL	Vehicle- days	14,688	0	0	1.101229	0	0	0	0	0	0.017829813	0	0	0
Sheet 7	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	DIURNAL	Vehicle- days	19	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	2,152	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	DIURNAL	Vehicle- days	95,280	0	0	1.101229	0	0	0	0	0	0.115660712	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	657	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	DIURNAL	Vehicle- days	5,760	0	0	1.101229	0	0	0	0	0	0.006992083	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	89	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	DIURNAL	Vehicle- days	18,720	0	0	1.101229	0	0	0	0	0	0.022724271	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	48,596	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	DIURNAL	Vehicle- days	184,992	0	0	1.101229	0	0	0	0	0	0.224562411	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	532	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 8	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	DIURNAL	Vehicle- days	147,354	0	0	1.101229	0	0	0	0	0	0.178873516	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	15,100	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	DIURNAL	Vehicle- days	2,880	0	0	1.101229	0	0	0	0	0	0.003496042	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	522	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	DIURNAL	Vehicle- days	4	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	DIURNAL	Vehicle- days	8	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	DIURNAL	Vehicle- days	22	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	DIURNAL	Vehicle- days	149,760	0	0	1.101229	0	0	0	0	0	0.181794167	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	DIURNAL	Vehicle- days	800	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	8,865	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	DIURNAL	Vehicle- days	542	0	0	0	0	0	0	0	0	0	0	0	0
									TOTAL (Tons Per Year)						***0***	***0***	***0.751933014***	***0***	***0***	***0***
									MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
									CO	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**	**CO**	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_EVAP	Vehicle- days	14,688	0	0	1.261929	0	0	0	0	0	0.020431681	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	19	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 9	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	2,152	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_EVAP	Vehicle- days	95,280	0	0	1.261929	0	0	0	0	0	0.132538845	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	657	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_EVAP	Vehicle- days	5,760	0	0	1.261929	0	0	0	0	0	0.008012424	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	89	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_EVAP	Vehicle- days	18,720	0	0	1.261929	0	0	0	0	0	0.026040378	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	48,596	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_EVAP	Vehicle- days	184,992	0	0	1.261929	0	0	0	0	0	0.257332347	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	532	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_EVAP	Vehicle- days	147,354	0	0	1.261929	0	0	0	0	0	0.204976165	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	15,100	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_EVAP	Vehicle- days	2,880	0	0	1.261929	0	0	0	0	0	0.004006212	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	522	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	4	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 10	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	8	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	22	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	RPV_EVAP	Vehicle- days	149,760	0	0	1.261929	0	0	0	0	0	0.208323021	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	800	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	8,865	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	RPV_EVAP	Vehicle- days	542	0	0	0	0	0	0	0	0	0	0	0	0
									TOTAL (Tons Per Year)						***0***	***0***	***0.861661073***	***0***	***0***	***0***

OVERALL TOTAL Emissions	**118.4579**	**8.483232**	**3.921994993**	**0.110460616**	**1.778797743**	**0.536874808**

Appendix A. Detailed Construction Phase Onroad Emissions Data

Table A7. Onroad Vehicle Construction Activity

	Project Type	Construction Activity	Vehicle	MOVES Source Type	Fuel	MOVES Lookup	Emission Process	Activity Surrogate	Activity - 2025	MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Sheet 1	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	497,664	2.915843	0.043211	0.019111	0.002556	0.001585	0.001402	1.599584	0.02370494	0.010483713	0.001402209	0.000869679	0.000769334
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	432	2.924698	4.550606	0.085911	0.00599	0.037305	0.034321	0.001393	0.002167	4.09107E-05	2.85243E-06	1.77647E-05	1.63435E-05
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	4,787	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	0.005243	0.00681042	0.000214774	1.49907E-05	6.94837E-05	6.39246E-05
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	18,864,576	2.915843	0.043211	0.019111	0.002556	0.001585	0.001402	60.63422	0.8985655	0.397398233	0.053152477	0.032966261	0.029162552
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	1,403,259	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	1.536999	1.99640353	0.062958899	0.004394368	0.020368409	0.018738841
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	11,285,568	2.915843	0.043211	0.019111	0.002556	0.001585	0.001402	36.27389	0.53755897	0.237740026	0.031798006	0.019721778	0.017446242
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	609,517	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	0.667608	0.86715417	0.027346712	0.00190873	0.008847185	0.008139368
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	1,415,232	2.915843	0.043211	0.019111	0.002556	0.001585	0.001402	4.548816	0.06741093	0.029813058	0.003987531	0.002473149	0.002187792
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	938,937	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	1.028424	1.33581694	0.042126535	0.002940323	0.013628741	0.012538377
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	894,240	2.915843	0.043211	0.019111	0.002556	0.001585	0.001402	2.874252	0.04259482	0.018837921	0.002519594	0.001562704	0.001382396
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	29,013	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	0.031778	0.04127653	0.001301703	9.08555E-05	0.000421126	0.000387434
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	55,116,288	2.915843	0.043211	0.019111	0.002556	0.001585	0.001402	177.1539	2.62532246	1.161071178	0.155294625	0.096316924	0.085203696
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	325,126	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	0.356113	0.46255374	0.014587168	0.001018147	0.004719228	0.004341668
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	155,520	2.915843	0.043211	0.019111	0.002556	0.001585	0.001402	0.49987	0.00740779	0.00327616	0.00043819	0.000271775	0.000240417
Sheet 2	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	28,188	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	0.030875	0.04010281	0.001264688	8.8272E-05	0.000409151	0.000376417
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	11,555	2.924698	4.550606	0.085911	0.00599	0.037305	0.034321	0.037253	0.05796232	0.001094266	7.62958E-05	0.000475164	0.00043715
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	11,555	2.924698	4.550606	0.085911	0.00599	0.037305	0.034321	0.037253	0.05796232	0.001094266	7.62958E-05	0.000475164	0.00043715
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	5,929	2.924698	4.550606	0.085911	0.00599	0.037305	0.034321	0.019115	0.02974111	0.00056148	3.91482E-05	0.000243812	0.000224306
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	620	2.924698	4.550606	0.085911	0.00599	0.037305	0.034321	0.001999	0.00311005	5.87144E-05	4.09376E-06	2.54956E-05	2.34559E-05
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	429	2.924698	4.550606	0.085911	0.00599	0.037305	0.034321	0.001383	0.00215195	4.06266E-05	2.83262E-06	1.76413E-05	1.623E-05
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	2,918,592	2.915843	0.043211	0.019111	0.002556	0.001585	0.001402	9.380892	0.13901962	0.061482607	0.00822337	0.005100304	0.004511821
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	21,600	2.924698	4.550606	0.085911	0.00599	0.037305	0.034321	0.069637	0.10835015	0.002045534	0.000142621	0.000888234	0.000817173
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	263,280	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	0.288372	0.37456601	0.011812373	0.000824473	0.003821529	0.003515789
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	29,200	0.99364	1.290637	0.040702	0.002841	0.013168	0.012114	0.031983	0.04154257	0.001310093	9.14411E-05	0.00042384	0.000389931
										TOTAL (Tons Per Year)						*297.1108*	*9.76925664*	*2.087961639*	*0.268531742*	*0.214134542*	*0.191367807*
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Sheet 3	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	497,664	0	0	0	0	0.028029	0.006335	0	0	0	0	0.015376107	0.003475007
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	432	0	0	0	0	0.430857	0.140454	0	0	0	0	0.000205175	6.68845E-05
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	4,787	0	0	0	0	0.117301	0.035802	0	0	0	0	0.000618972	0.000188918
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	18,864,576	0	0	0	0	0.028029	0.006335	0	0	0	0	0.582850569	0.131724473
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	1,403,259	0	0	0	0	0.117301	0.035802	0	0	0	0	0.181445099	0.055379297
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	11,285,568	0	0	0	0	0.028029	0.006335	0	0	0	0	0.348685268	0.078803017
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	609,517	0	0	0	0	0.117301	0.035802	0	0	0	0	0.07881216	0.024054449
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	1,415,232	0	0	0	0	0.028029	0.006335	0	0	0	0	0.043725805	0.00988205
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	938,937	0	0	0	0	0.117301	0.035802	0	0	0	0	0.121407036	0.037054935
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	894,240	0	0	0	0	0.028029	0.006335	0	0	0	0	0.027628943	0.006244153
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	29,013	0	0	0	0	0.117301	0.035802	0	0	0	0	0.003751458	0.001144991
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	55,116,288	0	0	0	0	0.028029	0.006335	0	0	0	0	1.702903888	0.384856994
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	325,126	0	0	0	0	0.117301	0.035802	0	0	0	0	0.042039651	0.012831023
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	155,520	0	0	0	0	0.028029	0.006335	0	0	0	0	0.004805034	0.00108594
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	28,188	0	0	0	0	0.117301	0.035802	0	0	0	0	0.003644783	0.001112433
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	11,555	0	0	0	0	0.430857	0.140454	0	0	0	0	0.005487944	0.001789005
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	11,555	0	0	0	0	0.430857	0.140454	0	0	0	0	0.005487944	0.001789005
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	5,929	0	0	0	0	0.430857	0.140454	0	0	0	0	0.002815925	0.000917959
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	620	0	0	0	0	0.430857	0.140454	0	0	0	0	0.000294463	9.59916E-05
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	429	0	0	0	0	0.430857	0.140454	0	0	0	0	0.00020375	6.642E-05
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	2,918,592	0	0	0	0	0.028029	0.006335	0	0	0	0	0.090174463	0.020379466
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	21,600	0	0	0	0	0.430857	0.140454	0	0	0	0	0.010258726	0.003344225
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	263,280	0	0	0	0	0.117301	0.035802	0	0	0	0	0.0340428	0.010390285
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	29,200	0	0	0	0	0.117301	0.035802	0	0	0	0	0.003775637	0.001152371
										TOTAL (Tons Per Year)						*0*	*0*	*0*	*0*	*3.310441598*	*0.787829294*
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Sheet 4	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	497,664	0	0	0.025904	0	0	0	0	0	0.014210446	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	432	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	4,787	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	18,864,576	0	0	0.025904	0	0	0	0	0	0.538664732	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	1,403,259	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	11,285,568	0	0	0.025904	0	0	0	0	0	0.322251476	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	609,517	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	1,415,232	0	0	0.025904	0	0	0	0	0	0.040410957	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	938,937	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	894,240	0	0	0.025904	0	0	0	0	0	0.025534396	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	29,013	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	55,116,288	0	0	0.025904	0	0	0	0	0	1.573806933	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	325,126	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	155,520	0	0	0.025904	0	0	0	0	0	0.004440764	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	28,188	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	11,555	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	11,555	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	5,929	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	620	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	429	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	2,918,592	0	0	0.025904	0	0	0	0	0	0.083338347	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	21,600	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	263,280	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	29,200	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						*0*	*0*	*2.602658052*	*0*	*0*	*0*
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Sheet 5	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	18,432	4.302308	0.206531	0.318227	0.000616	0.010276	0.00909	0.087414	0.00419628	0.0064657	1.25159E-05	0.00020879	0.000184699
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	16	0.514542	0.663597	0.117539	0.000118	0.001345	0.001238	9.08E-06	1.1704E-05	2.07304E-06	2.0762E-09	2.37267E-08	2.18284E-08
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	177	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	2.04E-05	5.6928E-05	1.58314E-05	1.11844E-08	8.62949E-08	7.93911E-08
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	698,688	4.302308	0.206531	0.318227	0.000616	0.010276	0.00909	3.313533	0.15906523	0.245090445	0.000474429	0.00791443	0.007001258
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	51,973	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	0.005997	0.01671589	0.00464862	3.28409E-06	2.5339E-05	2.33118E-05
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	417,984	4.302308	0.206531	0.318227	0.000616	0.010276	0.00909	1.982292	0.09515938	0.14662322	0.000283823	0.004734739	0.004188441
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	22,575	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	0.002605	0.00726072	0.002019175	1.42648E-06	1.10063E-05	1.01257E-05

Sheet 6	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	52,416	4.302308	0.206531	0.318227	0.000616	0.010276	0.00909	0.248583	0.01193317	0.018386835	3.5592E-05	0.000593745	0.000525239
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	34,775	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	0.004013	0.01118456	0.00311038	2.19738E-06	1.69543E-05	1.55979E-05
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	33,120	4.302308	0.206531	0.318227	0.000616	0.010276	0.00909	0.157072	0.00754019	0.011618055	2.24894E-05	0.000375169	0.000331882
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,075	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	0.000124	0.00034575	9.61512E-05	6.79276E-08	5.24108E-07	4.82177E-07
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	2,041,344	4.302308	0.206531	0.318227	0.000616	0.010276	0.00909	9.681089	0.46473798	0.716076287	0.001386131	0.023123447	0.020455447
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	12,042	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	0.001389	0.00387303	0.001077072	7.60915E-07	5.87098E-06	5.40128E-06
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	5,760	4.302308	0.206531	0.318227	0.000616	0.010276	0.00909	0.027317	0.00131134	0.002020531	3.91121E-06	6.52467E-05	5.77185E-05
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,044	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	0.00012	0.00033578	9.33785E-05	6.59687E-08	5.08994E-07	4.68273E-07
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	428	0.514542	0.663597	0.117539	0.000118	0.001345	0.001238	0.000243	0.00031308	5.54538E-05	5.55384E-08	6.34688E-07	5.83911E-07
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	428	0.514542	0.663597	0.117539	0.000118	0.001345	0.001238	0.000243	0.00031308	5.54538E-05	5.55384E-08	6.34688E-07	5.83911E-07
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	220	0.514542	0.663597	0.117539	0.000118	0.001345	0.001238	0.000125	0.00016093	2.85043E-05	2.85478E-08	3.26242E-07	3.00141E-07
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	23	0.514542	0.663597	0.117539	0.000118	0.001345	0.001238	1.3E-05	1.6824E-05	2.98E-06	2.98454E-09	3.41071E-08	3.13784E-08
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	16	0.514542	0.663597	0.117539	0.000118	0.001345	0.001238	9.08E-06	1.1704E-05	2.07304E-06	2.0762E-09	2.37267E-08	2.18284E-08
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	108,096	4.302308	0.206531	0.318227	0.000616	0.010276	0.00909	0.512646	0.02460943	0.037918637	7.34003E-05	0.001224464	0.001083184
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	800	0.514542	0.663597	0.117539	0.000118	0.001345	0.001238	0.000454	0.0005852	0.000103652	1.0381E-07	1.18633E-06	1.09142E-06
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	9,751	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	0.001125	0.00313618	0.000872158	6.16151E-07	4.75402E-06	4.37369E-06
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,081	0.104676	0.291773	0.081141	5.73E-05	0.000442	0.000407	0.000125	0.00034768	9.66879E-05	6.83067E-08	5.27033E-07	4.84869E-07
										TOTAL (Tons Per Year)						***16.02656***	***0.81322202***	***1.196479355***	***0.002301041***	***0.038308465***	***0.033890827***
										MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
										CO	**NOx**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**NOx**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Sheet 7	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	9,216	0	0	1.112606	0	0	0	0	0	0.01130291	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	8	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	89	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	349,344	0	0	1.112606	0	0	0	0	0	0.428450933	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	25,986	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	208,992	0	0	1.112606	0	0	0	0	0	0.256317032	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	11,287	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	26,208	0	0	1.112606	0	0	0	0	0	0.03214265	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	17,388	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	16,560	0	0	1.112606	0	0	0	0	0	0.020309916	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	537	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 8	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	1,020,672	0	0	1.112606	0	0	0	0	0	1.251797285	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	6,021	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	2,880	0	0	1.112606	0	0	0	0	0	0.003532159	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	522	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	214	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	214	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	110	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	11	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	8	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	54,048	0	0	1.112606	0	0	0	0	0	0.066286858	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	400	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	4,876	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	541	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***2.070139744***	***0***	***0***	***0***
										MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
										CO	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**	**CO**	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**
Sheet 9	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	9,216	0	0	1.292728	0	0	0	0	0	0.013132769	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	8	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	89	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	349,344	0	0	1.292728	0	0	0	0	0	0.497814009	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	25,986	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	208,992	0	0	1.292728	0	0	0	0	0	0.297812888	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	11,287	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	26,208	0	0	1.292728	0	0	0	0	0	0.037346311	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	17,388	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	16,560	0	0	1.292728	0	0	0	0	0	0.023597944	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	537	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	1,020,672	0	0	1.292728	0	0	0	0	0	1.454454122	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	6,021	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	2,880	0	0	1.292728	0	0	0	0	0	0.00410399	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	522	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	214	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	214	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	110	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 10	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	11	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	8	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	54,048	0	0	1.292728	0	0	0	0	0	0.077018216	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	400	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	4,876	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	541	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***2.405280248***	***0***	***0***	***0***

TOTAL Emissions	***313.1374***	***10.5824787***	***10.36251904***	***0.270832783***	***3.562884605***	***1.013087928***

Appendix A. Detailed Construction Phase Onroad Emissions Data

Table A8. Onroad Vehicle Construction Activity

	Project Type	Construction Activity	Vehicle	MOVES Source Type	Fuel	MOVES Lookup	Emission Process	Activity Surrogate	Activity - 2026	MOVES Emissions Rates CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Total Emissions (Tons Per Year) CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Sheet 1	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	384,912	2.211314	0.030841	0.014108	0.002468	0.001478	0.001308	0.9382497	0.0130858	0.005985936	0.001047118	0.000627275	0.0005549
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	21,600	2.907216	4.409467	0.078094	0.005859	0.030714	0.028257	0.069221	0.1049896	0.001859433	0.0001395	0.000731309	0.000672801
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	244,027	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	0.2549862	0.3098247	0.008868072	0.000723682	0.002647652	0.002435841
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	1,785,888	2.211314	0.030841	0.014108	0.002468	0.001478	0.001308	4.3532258	0.0607147	0.02777313	0.004858345	0.002910389	0.002574584
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	66,525	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	0.0695126	0.0844623	0.002417554	0.000197285	0.000721785	0.000664043
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	12,200,544	2.211314	0.030841	0.014108	0.002468	0.001478	0.001308	29.739672	0.4147807	0.189736026	0.033190463	0.01988273	0.017588633
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	3,570,110	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	3.7304436	4.532729	0.129739704	0.010587451	0.038735089	0.035636301
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	4,665,600	2.211314	0.030841	0.014108	0.002468	0.001478	0.001308	11.372724	0.1586159	0.072556798	0.012692338	0.007603338	0.006726055
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	229,770	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	0.240089	0.2917235	0.008349965	0.000681402	0.002492966	0.00229353
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	1,832,544	2.211314	0.030841	0.014108	0.002468	0.001478	0.001308	4.4669531	0.0623008	0.028498698	0.004985268	0.002986422	0.002641845
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	28,723	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	0.0300129	0.0364677	0.001043809	8.51804E-05	0.00031164	0.000286709
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	13,538,016	2.211314	0.030841	0.014108	0.002468	0.001478	0.001308	32.999853	0.4602506	0.210535641	0.036828933	0.022062353	0.019516768
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	28,515	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	0.0297956	0.0362036	0.00103625	8.45635E-05	0.000309383	0.000284632
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	155,520	2.211314	0.030841	0.014108	0.002468	0.001478	0.001308	0.3790908	0.0052872	0.00241856	0.000423078	0.000253445	0.000224202
Sheet 2	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	28,188	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	0.0294539	0.0357884	0.001024367	8.35938E-05	0.000305835	0.000281368
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	215	2.907216	4.409467	0.078094	0.005859	0.030714	0.028257	0.000689	0.001045	1.85082E-05	1.38854E-06	7.27924E-06	6.69687E-06
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	11,340	2.907216	4.409467	0.078094	0.005859	0.030714	0.028257	0.036341	0.0551196	0.000976202	7.32377E-05	0.000383937	0.000353221
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	5,929	2.907216	4.409467	0.078094	0.005859	0.030714	0.028257	0.0190005	0.0288187	0.000510397	3.82915E-05	0.000200738	0.000184678
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	215	2.907216	4.409467	0.078094	0.005859	0.030714	0.028257	0.000689	0.001045	1.85082E-05	1.38854E-06	7.27924E-06	6.69687E-06
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	5,640	2.907216	4.409467	0.078094	0.005859	0.030714	0.028257	0.0180744	0.027414	0.000485519	3.64251E-05	0.000190953	0.000175676
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.211314	0.030841	0.014108	0.002468	0.001478	0.001308	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.907216	4.409467	0.078094	0.005859	0.030714	0.028257	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	29,200	0.947921	1.151786	0.032967	0.00269	0.009843	0.009055	0.0305114	0.0370733	0.001061144	8.6595E-05	0.000316815	0.00029147
										TOTAL (Tons Per Year)						***88.80859***	***6.75774***	***0.694914219***	***0.106845527***	***0.103688612***	***0.093400649***
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	384,912	0	0	0	0	0.026626	0.00627	0	0	0	0	0.011297157	0.002660255
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	21,600	0	0	0	0	0.435114	0.142812	0	0	0	0	0.010360097	0.003400364
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	244,027	0	0	0	0	0.111162	0.034169	0	0	0	0	0.029901914	0.009191381
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	1,785,888	0	0	0	0	0.026626	0.00627	0	0	0	0	0.052415764	0.012342869
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	66,525	0	0	0	0	0.111162	0.034169	0	0	0	0	0.008151659	0.002505693
Sheet 3	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	12,200,544	0	0	0	0	0.026626	0.00627	0	0	0	0	0.358085634	0.084322037
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	3,570,110	0	0	0	0	0.111162	0.034169	0	0	0	0	0.437464381	0.134469723
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	4,665,600	0	0	0	0	0.026626	0.00627	0	0	0	0	0.136935233	0.032245521
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	229,770	0	0	0	0	0.111162	0.034169	0	0	0	0	0.028154928	0.008654385
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	1,832,544	0	0	0	0	0.026626	0.00627	0	0	0	0	0.053785116	0.012665324
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	28,723	0	0	0	0	0.111162	0.034169	0	0	0	0	0.00351958	0.001081864
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	13,538,016	0	0	0	0	0.026626	0.00627	0	0	0	0	0.3973404	0.093565753
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	28,515	0	0	0	0	0.111162	0.034169	0	0	0	0	0.003494093	0.00107403
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	155,520	0	0	0	0	0.026626	0.00627	0	0	0	0	0.004564508	0.001074851
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	28,188	0	0	0	0	0.111162	0.034169	0	0	0	0	0.003454024	0.001061713
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	215	0	0	0	0	0.435114	0.142812	0	0	0	0	0.000103121	3.38462E-05
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	11,340	0	0	0	0	0.435114	0.142812	0	0	0	0	0.005439051	0.001785191
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	5,929	0	0	0	0	0.435114	0.142812	0	0	0	0	0.002843751	0.000933368
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	215	0	0	0	0	0.435114	0.142812	0	0	0	0	0.000103121	3.38462E-05
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	5,640	0	0	0	0	0.435114	0.142812	0	0	0	0	0.002705137	0.000887873
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.026626	0.00627	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.435114	0.142812	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.111162	0.034169	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	29,200	0	0	0	0	0.111162	0.034169	0	0	0	0	0.00357803	0.001099831
										TOTAL (Tons Per Year)						***0***	***0***	***0***	***0***	***1.553696699***	***0.405089718***
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	384,912	0	0	0.022253	0	0	0	0	0	0.0094417	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	21,600	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	244,027	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 4	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	1,785,888	0	0	0.022253	0	0	0	0	0	0.043806945	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	66,525	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	12,200,544	0	0	0.022253	0	0	0	0	0	0.299273281	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	3,570,110	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	4,665,600	0	0	0.022253	0	0	0	0	0	0.11444485	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	229,770	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	1,832,544	0	0	0.022253	0	0	0	0	0	0.044951394	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	28,723	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	13,538,016	0	0	0.022253	0	0	0	0	0	0.332080805	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	28,515	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	155,520	0	0	0.022253	0	0	0	0	0	0.003814828	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	28,188	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	215	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	11,340	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	5,929	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	215	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	5,640	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.022253	0	0	0	0	0	0	0	0	0
Sheet 5	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	29,200	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.847813803***	***0***	***0***	***0***
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	14,256	3.470944	0.169252	0.250175	0.000588	0.010441	0.009236	0.0545446	0.0026597	0.003931407	9.23318E-06	0.000164072	0.000145142
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	800	0.493729	0.671403	0.117085	0.000118	0.001318	0.001212	0.0004354	0.0005921	0.000103252	1.03651E-07	1.16218E-06	1.0692E-06
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	9,038	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0.0009589	0.0028611	0.000804359	5.57381E-07	4.2512E-06	3.91109E-06
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	66,144	3.470944	0.169252	0.250175	0.000588	0.010441	0.009236	0.2530723	0.0123404	0.01824067	4.28395E-05	0.000761251	0.000673418
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	2,464	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0.0002614	0.00078	0.00021929	1.51957E-07	1.15899E-06	1.06627E-06
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	451,872	3.470944	0.169252	0.250175	0.000588	0.010441	0.009236	1.728899	0.0843053	0.124613689	0.000292664	0.005200593	0.004600548
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	132,226	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0.0140291	0.0418585	0.011767784	8.15449E-06	6.21951E-05	5.72193E-05

Sheet 6	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	172,800	3.470944	0.169252	0.250175	0.000588	0.010441	0.009236	0.6611468	0.0322391	0.047653418	0.000111917	0.001988754	0.001759292
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	8,510	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0.0009029	0.002694	0.000757369	5.24819E-07	4.00285E-06	3.68261E-06
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	67,872	3.470944	0.169252	0.250175	0.000588	0.010441	0.009236	0.2596838	0.0126628	0.018717204	4.39586E-05	0.000781139	0.000691011
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,064	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0.0001129	0.0003368	9.46933E-05	6.56178E-08	5.00473E-07	4.60434E-07
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	501,408	3.470944	0.169252	0.250175	0.000588	0.010441	0.009236	1.9184278	0.0935471	0.138274335	0.000324747	0.005770702	0.005104878
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,056	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0.000112	0.0003343	9.39814E-05	6.51244E-08	4.9671E-07	4.56972E-07
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	5,760	3.470944	0.169252	0.250175	0.000588	0.010441	0.009236	0.0220382	0.0010746	0.001588447	3.73058E-06	6.62918E-05	5.86431E-05
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,044	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0.0001108	0.0003305	9.29134E-05	6.43844E-08	4.91066E-07	4.51779E-07
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	8	0.493729	0.671403	0.117085	0.000118	0.001318	0.001212	4.354E-06	5.921E-06	1.03252E-06	1.03651E-09	1.16218E-08	1.0692E-08
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	420	0.493729	0.671403	0.117085	0.000118	0.001318	0.001212	0.0002286	0.0003108	5.42072E-05	5.44166E-08	6.10144E-07	5.61333E-07
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	220	0.493729	0.671403	0.117085	0.000118	0.001318	0.001212	0.0001197	0.0001628	2.83942E-05	2.85039E-08	3.19599E-07	2.94031E-07
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	8	0.493729	0.671403	0.117085	0.000118	0.001318	0.001212	4.354E-06	5.921E-06	1.03252E-06	1.03651E-09	1.16218E-08	1.0692E-08
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	209	0.493729	0.671403	0.117085	0.000118	0.001318	0.001212	0.0001137	0.0001547	2.69745E-05	2.70787E-08	3.03619E-07	2.7933E-07
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.470944	0.169252	0.250175	0.000588	0.010441	0.009236	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.493729	0.671403	0.117085	0.000118	0.001318	0.001212	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,081	0.096251	0.287184	0.080737	5.59E-05	0.000427	0.000393	0.0001147	0.0003422	9.62063E-05	6.66662E-08	5.0847E-07	4.67791E-07
										TOTAL (Tons Per Year)						***4.915321***	***0.289599***	***0.367160659***	***0.000838956***	***0.014808827***	***0.013102872***
										MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
										CO	**NOx**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**NOx**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Sheet 7	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	7,128	0	0	0.67806	0	0	0	0	0	0.005327728	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	400	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	4,519	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	33,072	0	0	0.67806	0	0	0	0	0	0.024719222	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	1,232	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	225,936	0	0	0.67806	0	0	0	0	0	0.168872827	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	66,113	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	86,400	0	0	0.67806	0	0	0	0	0	0.064578519	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	4,255	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	33,936	0	0	0.67806	0	0	0	0	0	0.025365007	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	532	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 8	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	250,704	0	0	0.67806	0	0	0	0	0	0.187385336	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	528	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	2,880	0	0	0.67806	0	0	0	0	0	0.002152617	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	522	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	4	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	210	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	110	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	4	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	104	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	0.67806	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	541	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.478401257***	***0***	***0***	***0***
										MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
										CO	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**	**CO**	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	7,128	0	0	1.203138	0	0	0	0	0	0.009453437	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	400	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 9	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	4,519	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	33,072	0	0	1.203138	0	0	0	0	0	0.0438614	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	1,232	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	225,936	0	0	1.203138	0	0	0	0	0	0.299645299	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	66,113	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	86,400	0	0	1.203138	0	0	0	0	0	0.114587112	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	4,255	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	33,936	0	0	1.203138	0	0	0	0	0	0.045007271	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	532	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	250,704	0	0	1.203138	0	0	0	0	0	0.332493604	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	528	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	2,880	0	0	1.203138	0	0	0	0	0	0.00381957	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	522	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	4	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	210	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	110	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 10	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	4	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	104	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.203138	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	541	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.848867694***	***0***	***0***	***0***

TOTAL Emissions	***93.72391***	***7.047339***	***3.237157632***	***0.107684483***	***1.672194138***	***0.51159324***

Appendix A. Detailed Construction Phase Onroad Emissions Data

Table A9. Onroad Vehicle Construction Activity

	Project Type	Construction Activity	Vehicle	MOVES Source Type	Fuel	MOVES Lookup	Emission Process	Activity Surrogate	Activity - 2027	MOVES Emissions Rates CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Total Emissions (Tons Per Year) CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Sheet 1	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.644265	0.032927	0.016905	0.002425	0.001492	0.00132	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.893071	4.167715	0.072197	0.005784	0.026627	0.024497	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	38,880	2.644265	0.032927	0.016905	0.002425	0.001492	0.00132	0.113328	0.0014112	0.00072452	0.000103937	6.393E-05	5.655E-05
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	5,222,880	2.644265	0.032927	0.016905	0.002425	0.001492	0.00132	15.22375	0.1895682	0.0973274	0.013962143	0.0085878	0.0075969
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	306,360	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0.317131	0.3687226	0.01043109	0.000886674	0.0030346	0.0027918
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	1,516,320	2.644265	0.032927	0.016905	0.002425	0.001492	0.00132	4.419798	0.0550359	0.02825634	0.004053525	0.0024932	0.0022056
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	344,655	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0.356772	0.4148129	0.01173497	0.000997508	0.0034139	0.0031408
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.644265	0.032927	0.016905	0.002425	0.001492	0.00132	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.644265	0.032927	0.016905	0.002425	0.001492	0.00132	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	155,520	2.644265	0.032927	0.016905	0.002425	0.001492	0.00132	0.453313	0.0056447	0.00289809	0.000415746	0.0002557	0.0002262
Sheet 2	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	28,188	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0.029179	0.0339259	0.00095976	8.15823E-05	0.0002792	0.0002569
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.893071	4.167715	0.072197	0.005784	0.026627	0.024497	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	11,340	2.893071	4.167715	0.072197	0.005784	0.026627	0.024497	0.036164	0.0520976	0.00090248	7.22989E-05	0.0003328	0.0003062
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	5,929	2.893071	4.167715	0.072197	0.005784	0.026627	0.024497	0.018908	0.0272387	0.00047185	3.78007E-05	0.000174	0.0001601
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.893071	4.167715	0.072197	0.005784	0.026627	0.024497	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.893071	4.167715	0.072197	0.005784	0.026627	0.024497	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.644265	0.032927	0.016905	0.002425	0.001492	0.00132	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.893071	4.167715	0.072197	0.005784	0.026627	0.024497	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	29,200	0.939074	1.091845	0.030888	0.002626	0.008986	0.008267	0.030227	0.0351439	0.00099421	8.45113E-05	0.0002892	0.0002661
										TOTAL (Tons Per Year)						***20.99857***	***1.183602***	***0.15470071***	***0.020695726***	***0.018925***	***0.017007***
										MOVES Emissions Rates CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Total Emissions (Tons Per Year) CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.026056	0.006244	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.437067	0.14367	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.109154	0.033594	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	38,880	0	0	0	0	0.026056	0.006244	0	0	0	0	0.0011167	0.0002676
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.109154	0.033594	0	0	0	0	0	0
Sheet 3	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	5,222,880	0	0	0	0	0.026056	0.006244	0	0	0	0	0.1500134	0.0359458
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	306,360	0	0	0	0	0.109154	0.033594	0	0	0	0	0.0368619	0.0113449
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	1,516,320	0	0	0	0	0.026056	0.006244	0	0	0	0	0.0435523	0.0104359
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	344,655	0	0	0	0	0.109154	0.033594	0	0	0	0	0.0414697	0.012763
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.026056	0.006244	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.109154	0.033594	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.026056	0.006244	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.109154	0.033594	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	155,520	0	0	0	0	0.026056	0.006244	0	0	0	0	0.0044669	0.0010703
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	28,188	0	0	0	0	0.109154	0.033594	0	0	0	0	0.0033916	0.0010438
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.437067	0.14367	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	11,340	0	0	0	0	0.437067	0.14367	0	0	0	0	0.0054635	0.0017959
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	5,929	0	0	0	0	0.437067	0.14367	0	0	0	0	0.0028565	0.000939
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.437067	0.14367	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.437067	0.14367	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.026056	0.006244	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.437067	0.14367	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.109154	0.033594	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	29,200	0	0	0	0	0.109154	0.033594	0	0	0	0	0.0035134	0.0010813
										TOTAL (Tons Per Year)						***0***	***0***	***0***	***0***	***0.292706***	***0.076688***
										MOVES Emissions Rates CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Total Emissions (Tons Per Year) CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.025337	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	38,880	0	0	0.025337	0	0	0	0	0	0.00108591	0	0	0
Sheet 4	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	5,222,880	0	0	0.025337	0	0	0	0	0	0.14587331	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	306,360	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	1,516,320	0	0	0.025337	0	0	0	0	0	0.04235032	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	344,655	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.025337	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.025337	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	155,520	0	0	0.025337	0	0	0	0	0	0.00434362	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	28,188	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	11,340	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	5,929	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.025337	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	29,200	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.19365315***	***0***	***0***	***0***
										MOVES Emissions Rates CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	Total Emissions (Tons Per Year) CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.89679	0.187454	0.287118	0.000573	0.010894	0.009637	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.482608	0.647588	0.116752	0.000117	0.001298	0.001194	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	1,440	3.89679	0.187454	0.287118	0.000573	0.010894	0.009637	0.006186	0.0002976	0.00045575	9.09732E-07	1.729E-05	1.53E-05
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	193,440	3.89679	0.187454	0.287118	0.000573	0.010894	0.009637	0.830921	0.0399713	0.06122289	0.000122207	0.0023229	0.0020549
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	11,347	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0.001176	0.003523	0.00100858	6.93294E-07	5.288E-06	4.865E-06

Sheet 6	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	56,160	3.89679	0.187454	0.287118	0.000573	0.010894	0.009637	0.241235	0.0116046	0.01777439	3.54795E-05	0.0006744	0.0005966
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	12,765	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0.001323	0.0039632	0.00113462	7.79932E-07	5.949E-06	5.473E-06
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.89679	0.187454	0.287118	0.000573	0.010894	0.009637	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.89679	0.187454	0.287118	0.000573	0.010894	0.009637	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	5,760	3.89679	0.187454	0.287118	0.000573	0.010894	0.009637	0.024742	0.0011902	0.00182301	3.63893E-06	6.917E-05	6.119E-05
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,044	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0.000108	0.0003241	9.2796E-05	6.37877E-08	4.865E-07	4.476E-07
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.482608	0.647588	0.116752	0.000117	0.001298	0.001194	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	420	0.482608	0.647588	0.116752	0.000117	0.001298	0.001194	0.000223	0.0002998	5.4053E-05	5.43439E-08	6.009E-07	5.529E-07
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	220	0.482608	0.647588	0.116752	0.000117	0.001298	0.001194	0.000117	0.000157	2.8313E-05	2.84659E-08	3.148E-07	2.896E-07
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.482608	0.647588	0.116752	0.000117	0.001298	0.001194	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.482608	0.647588	0.116752	0.000117	0.001298	0.001194	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.89679	0.187454	0.287118	0.000573	0.010894	0.009637	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.482608	0.647588	0.116752	0.000117	0.001298	0.001194	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,081	0.094053	0.281656	0.080635	5.54E-05	0.000423	0.000389	0.000112	0.0003356	9.6085E-05	6.60483E-08	5.038E-07	4.635E-07
										TOTAL (Tons Per Year)						***1.106144***	***0.061666***	***0.08369049***	***0.000163921***	***0.003097***	***0.00274***
										MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
										CO	**NOx**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**NOx**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Sheet 7	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.043882	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	720	0	0	1.043882	0	0	0	0	0	0.0008285	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	96,720	0	0	1.043882	0	0	0	0	0	0.11129461	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	5,673	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	28,080	0	0	1.043882	0	0	0	0	0	0.03231134	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	6,383	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.043882	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 8	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.043882	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	2,880	0	0	1.043882	0	0	0	0	0	0.00331398	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	522	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	210	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	110	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.043882	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	541	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.14774843***	***0***	***0***	***0***
										MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
										CO	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**	**CO**	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**
Sheet 9	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.23739	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	720	0	0	1.23739	0	0	0	0	0	0.00098208	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	96,720	0	0	1.23739	0	0	0	0	0	0.13192574	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	5,673	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	28,080	0	0	1.23739	0	0	0	0	0	0.03830102	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	6,383	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.23739	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.23739	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	2,880	0	0	1.23739	0	0	0	0	0	0.00392831	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	522	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	210	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	110	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 10	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.23739	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	541	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.17513715***	***0***	***0***	***0***

TOTAL Emissions	***22.10471***	***1.245268***	***0.75492993***	***0.020859647***	***0.314727***	***0.096435***

Appendix A. Detailed Construction Phase Onroad Emissions Data

Table A10. Onroad Vehicle Construction Activity

	Project Type	Construction Activity	Vehicle	MOVES Source Type	Fuel	MOVES Lookup	Emission Process	Activity Surrogate	Activity - 2028	MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
Sheet 1	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.622414	0.030576	0.016549	0.002378	0.001504	0.001331	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.89395	3.974223	0.067425	0.005701	0.02323	0.021372	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.622414	0.030576	0.016549	0.002378	0.001504	0.001331	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	3,732,480	2.622414	0.030576	0.016549	0.002378	0.001504	0.001331	10.789599	0.1258005	0.0680884	0.009784349	0.0061895	0.0054753
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	47,868	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0.0494456	0.0553458	0.001542	0.000135806	0.0004381	0.000403
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	498,960	2.622414	0.030576	0.016549	0.002378	0.001504	0.001331	1.4423596	0.0168171	0.0091021	0.001307977	0.0008274	0.0007319
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	114,885	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0.1186712	0.132832	0.0037009	0.00032594	0.0010514	0.0009672
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.622414	0.030576	0.016549	0.002378	0.001504	0.001331	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.622414	0.030576	0.016549	0.002378	0.001504	0.001331	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	103,680	2.622414	0.030576	0.016549	0.002378	0.001504	0.001331	0.2997111	0.0034945	0.0018913	0.000271787	0.0001719	0.0001521
Sheet 2	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	18,603	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0.0192161	0.0215091	0.0005993	5.27785E-05	0.0001702	0.0001566
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.89395	3.974223	0.067425	0.005701	0.02323	0.021372	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	11,340	2.89395	3.974223	0.067425	0.005701	0.02323	0.021372	0.0361752	0.0496789	0.0008428	7.12675E-05	0.0002904	0.0002672
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.89395	3.974223	0.067425	0.005701	0.02323	0.021372	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.89395	3.974223	0.067425	0.005701	0.02323	0.021372	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.89395	3.974223	0.067425	0.005701	0.02323	0.021372	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD	Miles	0	2.622414	0.030576	0.016549	0.002378	0.001504	0.001331	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD	Miles	0	2.89395	3.974223	0.067425	0.005701	0.02323	0.021372	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	0	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD	Miles	29,280	0.937078	1.048897	0.029224	0.002574	0.008302	0.007638	0.030245	0.033854	0.0009432	8.30701E-05	0.000268	0.0002465
										TOTAL (Tons Per Year)						***12.78542***	***0.439332***	***0.08671***	***0.012032976***	***0.009407***	***0.0084***
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.025562	0.006221	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.438727	0.144404	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.10732	0.033066	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.025562	0.006221	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.10732	0.033066	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	3,732,480	0	0	0	0	0.025562	0.006221	0	0	0	0	0.1051705	0.0255944
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	47,868	0	0	0	0	0.10732	0.033066	0	0	0	0	0.0056628	0.0017448
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	498,960	0	0	0	0	0.025562	0.006221	0	0	0	0	0.0140592	0.0034215
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	114,885	0	0	0	0	0.10732	0.033066	0	0	0	0	0.013591	0.0041875
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.025562	0.006221	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.10732	0.033066	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.025562	0.006221	0	0	0	0	0	0
Sheet 3	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.10732	0.033066	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	103,680	0	0	0	0	0.025562	0.006221	0	0	0	0	0.0029214	0.000711
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	18,603	0	0	0	0	0.10732	0.033066	0	0	0	0	0.0022007	0.0006781
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.438727	0.144404	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	11,340	0	0	0	0	0.438727	0.144404	0	0	0	0	0.0054842	0.0018051
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.438727	0.144404	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.438727	0.144404	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.438727	0.144404	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_WEAR	Miles	0	0	0	0	0	0.025562	0.006221	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.438727	0.144404	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	0	0	0	0	0	0.10732	0.033066	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_WEAR	Miles	29,280	0	0	0	0	0.10732	0.033066	0	0	0	0	0.0034638	0.0010672
										TOTAL (Tons Per Year)						***0***	***0***	***0***	***0***	***0.152554***	***0.039209***
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.02653	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.02653	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	3,732,480	0	0	0.02653	0	0	0	0	0	0.1091535	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	47,868	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	498,960	0	0	0.02653	0	0	0	0	0	0.0145917	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	114,885	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.02653	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.02653	0	0	0	0	0	0	0	0	0
Sheet 4	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	103,680	0	0	0.02653	0	0	0	0	0	0.003032	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	18,603	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	11,340	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPD_EVAP	Miles	0	0	0	0.02653	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPD_EVAP	Miles	29,280	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.126777***	***0***	***0***	***0***
										MOVES Emissions Rates						Total Emissions (Tons Per Year)					
										CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$	CO	NOx	VOC	SO_2	PM_{10}	$PM_{2.5}$
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.821815	0.18299	0.27994	0.000557	0.011313	0.010008	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.472592	0.623381	0.11647	0.000117	0.001281	0.001179	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.821815	0.18299	0.27994	0.000557	0.011313	0.010008	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	138,240	3.821815	0.18299	0.27994	0.000557	0.011313	0.010008	0.5823847	0.0278848	0.0426584	8.49165E-05	0.0017239	0.001525
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,773	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	0.00018	0.0005404	0.0001574	1.07333E-07	8.194E-07	7.538E-07

Sheet 6	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	18,480	3.821815	0.18299	0.27994	0.000557	0.011313	0.010008	0.0778535	0.0037277	0.0057026	1.13517E-05	0.0002305	0.0002039
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	4,255	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	0.0004319	0.0012968	0.0003778	2.57587E-07	1.966E-06	1.809E-06
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.821815	0.18299	0.27994	0.000557	0.011313	0.010008	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.821815	0.18299	0.27994	0.000557	0.011313	0.010008	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	3,840	3.821815	0.18299	0.27994	0.000557	0.011313	0.010008	0.0161774	0.0007746	0.001185	2.35879E-06	4.789E-05	4.236E-05
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	689	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	6.993E-05	0.00021	6.117E-05	4.17104E-08	3.184E-07	2.929E-07
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.472592	0.623381	0.11647	0.000117	0.001281	0.001179	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	420	0.472592	0.623381	0.11647	0.000117	0.001281	0.001179	0.0002188	0.0002886	5.392E-05	5.42878E-08	5.931E-07	5.457E-07
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.472592	0.623381	0.11647	0.000117	0.001281	0.001179	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.472592	0.623381	0.11647	0.000117	0.001281	0.001179	0	0	0	0	0	0
Sheet 7	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.472592	0.623381	0.11647	0.000117	0.001281	0.001179	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_START	One-Way Trips	0	3.821815	0.18299	0.27994	0.000557	0.011313	0.010008	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.472592	0.623381	0.11647	0.000117	0.001281	0.001179	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	0	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_START	One-Way Trips	1,084	0.092077	0.27649	0.080544	5.49E-05	0.000419	0.000386	0.00011	0.0003304	9.624E-05	6.56227E-08	5.01E-07	4.609E-07
										TOTAL (Tons Per Year)						***0.677426***	***0.035053***	***0.050293***	***9.91535E-05***	***0.002006***	***0.001775***
										MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
										CO	**NOx**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**NOx**	**VOC**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.049079	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.049079	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	69,120	0	0	1.049079	0	0	0	0	0	0.0799316	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	886	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	9,240	0	0	1.049079	0	0	0	0	0	0.0106853	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	2,128	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.049079	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 8	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.049079	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	1,920	0	0	1.049079	0	0	0	0	0	0.0022203	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	345	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	210	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	DIURNAL	Vehicle- days	0	0	0	1.049079	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	DIURNAL	Vehicle- days	542	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.092837***	***0***	***0***	***0***
										MOVES Emissions Rates						**Total Emissions (Tons Per Year)**					
										CO	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**	**CO**	**NOx**	**VOC**	**SO2**	**PM10**	**PM2.5**
	Goods/Services Dock	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.272371	0	0	0	0	0	0	0	0	0
	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 9	Goods/Services Dock	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.272371	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	69,120	0	0	1.272371	0	0	0	0	0	0.0969447	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	886	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	9,240	0	0	1.272371	0	0	0	0	0	0.0129596	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	2,128	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal E	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.272371	0	0	0	0	0	0	0	0	0
	Terminal E	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.272371	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Batch Plant	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	1,920	0	0	1.272371	0	0	0	0	0	0.0026929	0	0	0
	Batch Plant	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	345	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal A	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	210	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal C Garage	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheet 10	Terminal E	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Terminal F	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Employee Commute	Passenger Car	Passenger Car	Gasoline	Passenger Car Gasoline	RPV_EVAP	Vehicle- days	0	0	0	1.272371	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Combination Short-haul Truck	Diesel	Combination Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tunnels	Material Delivery	Heavy-Duty Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fugitive Dust Control	Fugitive Dust Control	Water Truck	Single Unit Short-haul Truck	Diesel	Single Unit Short-haul Truck Diesel	RPV_EVAP	Vehicle- days	542	0	0	0	0	0	0	0	0	0	0	0	0
										TOTAL (Tons Per Year)						***0***	***0***	***0.112597***	***0***	***0***	***0***

TOTAL Emissions	***13.46285***	***0.474385***	***0.469214***	***0.012132129***	***0.163967***	***0.049384***

Appendix A. Detailed Construction Phase Fugitive Emissions Data

Table A11. Onroad Vehicle Construction Activity

Project Type	Construction Activity	NOx	CO	VOC	SO_{2}	PM_{10}	PM_{2.5}	HMMH VOC	HMMH PM10	HMMH PM25	VOC Comparison	PM10 Comparison	PM25 Comparison
Building - 100000 sqft- 10 stories	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	6.80E-03	0	6.80E-02	6.80E-03	GOOD	GOOD	GOOD
Building - 100000 sqft- 10 stories	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-02	5.76E-03	0	2.30E-02	5.76E-03	GOOD	GOOD	GOOD
Fencing	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02	1.81E-03	0	1.81E-02	1.81E-03	GOOD	GOOD	GOOD
Fencing	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-03	1.53E-03	0	6.13E-03	1.53E-03	GOOD	GOOD	GOOD
Parking Lot	Soil Handling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-01	5.52E-02	0	3.68E-01	5.52E-02	GOOD	GOOD	GOOD
Parking Lot	Unstabilized Land and Wind Erosion	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-01	1.01E-01	0	6.61E-01	9.91E-02	GOOD	BAD	BAD
Parking Lot	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-01	5.10E-02	0	5.10E-01	5.10E-02	GOOD	GOOD	GOOD
Parking Lot	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-01	4.13E-02	0	1.65E-01	4.13E-02	GOOD	GOOD	GOOD
Site Work - 10000 sqft	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-03	1.88E-03	0	7.52E-03	1.88E-03	GOOD	GOOD	GOOD
Access Road	Concrete Mixing/Batching	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	1.60E-03	0	1.07E-02	1.60E-03	GOOD	GOOD	GOOD
Access Road	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-02	1.26E-03	0	1.26E-02	1.26E-03	GOOD	GOOD	GOOD
Access Road	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	9.98E-04	0	3.99E-03	9.98E-04	GOOD	GOOD	GOOD
Access Road	Unstabilized Land and Wind Erosion	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-03	1.01E-03	0	6.73E-03	1.01E-03	GOOD	GOOD	GOOD
Access Road	Soil Handling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-03	5.31E-04	0	3.54E-03	5.31E-04	GOOD	GOOD	GOOD
Open Parking Lot @Grade - 10000 sqft	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03	1.75E-03	0	7.01E-03	1.75E-03	GOOD	GOOD	GOOD
Open Parking Lot @Grade - 10000 sqft	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02	1.19E-03	0	1.19E-02	1.19E-03	GOOD	GOOD	GOOD
Open Parking Lot @Grade - 10000 sqft	Asphalt Drying	0.00E+00	0.00E+00	2.43E-02	0.00E+00	0.00E+00	0.00E+00	0.0121663	0.00E+00	#N/A	BAD	GOOD	#N/A
Hangar Building - 10000 sqft- 1 story	Concrete Mixing/Batching	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-03	1.28E-03	0	8.57E-03	1.28E-03	GOOD	GOOD	GOOD
Hangar Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03	1.25E-03	0	5.01E-03	1.25E-03	GOOD	GOOD	GOOD
Building - 500000 sqft- 20 stories	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	2.83E-02	0	1.62E-01	4.04E-02	GOOD	BAD	BAD
Detention Basin	Unstabilized Land and Wind Erosion	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01	1.76E-02	0	1.17E-01	1.75E-02	GOOD	GOOD	GOOD
Detention Basin	Soil Handling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-02	3.09E-03	0	2.06E-02	3.09E-03	GOOD	GOOD	GOOD
Detention Basin	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-02	4.14E-03	0	4.14E-02	4.14E-03	GOOD	GOOD	GOOD
Detention Basin	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	#VALUE!	0.00E+00	GOOD	#VALUE!	GOOD
Parking Lot	Concrete Mixing/Batching	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-01	1.28E-01	0	8.56E-01	1.28E-01	GOOD	GOOD	GOOD
Drainage System	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03	4.68E-04	0	4.68E-03	4.68E-04	GOOD	GOOD	GOOD
Drainage System	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	#VALUE!	0.00E+00	GOOD	#VALUE!	GOOD
Terminal Apron	Concrete Mixing/Batching	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Terminal Apron	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Terminal Apron	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Terminal Apron	Unstabilized Land and Wind Erosion	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Rehabilitate Runway	Soil Handling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-01	6.62E-02	0	4.41E-01	6.62E-02	GOOD	GOOD	GOOD
Rehabilitate Runway	Unstabilized Land and Wind Erosion	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-01	1.33E-01	0	8.93E-01	1.34E-01	GOOD	GOOD	GOOD
Rehabilitate Runway	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-01	1.98E-02	0	1.98E-01	1.98E-02	GOOD	GOOD	GOOD
Rehabilitate Runway	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	1.45E-02	0	5.80E-02	1.45E-02	GOOD	GOOD	GOOD
Cargo Apron	Unstabilized Land and Wind Erosion	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-01	8.85E-02	0	5.80E-01	8.70E-02	GOOD	GOOD	GOOD
Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-02	8.98E-03	0	3.59E-02	8.98E-03	GOOD	GOOD	GOOD
Building - 30000 sqft- 3 stories	Concrete Mixing/Batching	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-02	1.07E-02	0	7.70E-02	1.16E-02	GOOD	BAD	GOOD
Building - 30000 sqft- 3 stories	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-02	5.99E-03	0	2.39E-02	5.99E-03	GOOD	GOOD	GOOD
Building - 500000 sqft- 20 stories	Concrete Mixing/Batching	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-02	6.42E-03	0	4.28E-01	6.42E-02	GOOD	BAD	BAD
Building - 30000 sqft- 3 stories	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	1.77E-03	0	1.77E-02	1.77E-03	GOOD	GOOD	GOOD
Site Work - 10000 sqft	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Service Road	Concrete Mixing/Batching	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-02	6.42E-03	0	4.28E-02	6.42E-03	GOOD	GOOD	GOOD
Service Road	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-02	3.53E-03	0	3.53E-02	3.53E-03	GOOD	GOOD	GOOD
Service Road	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	2.99E-03	0	1.20E-02	2.99E-03	GOOD	GOOD	GOOD
Terminal Apron	Soil Handling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Parking Structure - 240000 sqft- G+2 stories	Concrete Mixing/Batching	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Parking Structure - 240000 sqft- G+2 stories	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Parking Structure - 240000 sqft- G+2 stories	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	GOOD	GOOD	GOOD
Demolition - Concrete	Soil Handling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-01	2.00E-02	0	1.33E-01	2.00E-02	GOOD	GOOD	GOOD
Demolition - Concrete	Unstabilized Land and Wind Erosion	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-01	1.14E-01	0	7.73E-01	1.16E-01	GOOD	BAD	BAD
Demolition - Concrete	Material Movement (Unpaved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-02	4.61E-03	0	4.61E-02	4.61E-03	GOOD	GOOD	GOOD
Demolition - Concrete	Material Movement (Paved Roads)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	2.99E-03	0	1.20E-02	2.99E-03	GOOD	GOOD	GOOD

Project Type	Construction Activity	2024 Emissions (tons/yr)						2025 Emissions (tons/yr)					
		NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$
Building - 100000 sqft- 10 stories	Material Movement (Unpaved Roads)	0	0	0	0	6.80E-02	6.80E-03	0	0	0	0	0.00E+00	0.00E+00
Building - 100000 sqft- 10 stories	Material Movement (Paved Roads)	0	0	0	0	2.30E-02	5.76E-03	0	0	0	0	2.89E-02	7.23E-03
Fencing	Material Movement (Unpaved Roads)	0	0	0	0	1.81E-02	1.81E-03	0	0	0	0	0.00E+00	0.00E+00
Fencing	Material Movement (Paved Roads)	0	0	0	0	6.13E-03	1.53E-03	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Soil Handling	0	0	0	0	3.68E-01	5.52E-02	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Unstabilized Land and Wind Erosion	0	0	0	0	6.61E-01	9.91E-02	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Material Movement (Unpaved Roads)	0	0	0	0	5.10E-01	5.10E-02	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Material Movement (Paved Roads)	0	0	0	0	1.65E-01	4.13E-02	0	0	0	0	0.00E+00	0.00E+00
Site Work - 10000 sqft	Material Movement (Paved Roads)	0	0	0	0	7.52E-03	1.88E-03	0	0	0	0	2.00E-03	4.99E-04
Access Road	Concrete Mixing/Batching	0	0	0	0	1.07E-02	1.60E-03	0	0	0	0	0.00E+00	0.00E+00
Access Road	Material Movement (Unpaved Roads)	0	0	0	0	1.26E-02	1.26E-03	0	0	0	0	0.00E+00	0.00E+00
Access Road	Material Movement (Paved Roads)	0	0	0	0	3.99E-03	9.98E-04	0	0	0	0	0.00E+00	0.00E+00
Access Road	Unstabilized Land and Wind Erosion	0	0	0	0	6.73E-03	1.01E-03	0	0	0	0	0.00E+00	0.00E+00
Access Road	Soil Handling	0	0	0	0	3.54E-03	5.31E-04	0	0	0	0	0.00E+00	0.00E+00
Open Parking Lot @Grade - 10000 sqft	Material Movement (Paved Roads)	0	0	0	0	7.01E-03	1.75E-03	0	0	0	0	0.00E+00	0.00E+00
Open Parking Lot @Grade - 10000 sqft	Material Movement (Unpaved Roads)	0	0	0	0	1.19E-02	1.19E-03	0	0	0	0	0.00E+00	0.00E+00
Open Parking Lot @Grade - 10000 sqft	Asphalt Drying	0	0	1.22E-02	0	#######	#N/A	0	0	0	0	0.00E+00	0.00E+00
Hangar Building - 10000 sqft- 1 story	Concrete Mixing/Batching	0	0	0	0	8.57E-03	1.28E-03	0	0	0	0	8.57E-03	1.28E-03
Hangar Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	0	0	0	0	5.01E-03	1.25E-03	0	0	0	0	1.20E-02	2.99E-03
Building - 500000 sqft- 20 stories	Material Movement (Paved Roads)	0	0	0	0	1.62E-01	4.04E-02	0	0	0	0	1.61E-01	4.03E-02
Detention Basin	Unstabilized Land and Wind Erosion	0	0	0	0	1.17E-01	1.75E-02	0	0	0	0	5.11E-02	7.67E-03
Detention Basin	Soil Handling	0	0	0	0	2.06E-02	3.09E-03	0	0	0	0	1.20E-02	1.79E-03
Detention Basin	Material Movement (Unpaved Roads)	0	0	0	0	4.14E-02	4.14E-03	0	0	0	0	1.98E-02	1.98E-03
Detention Basin	Material Movement (Paved Roads)	0	0	0	0	#VALUE!	#######	0	0	0	0	#VALUE!	0.00E+00
Parking Lot	Concrete Mixing/Batching	0	0	0	0	8.56E-01	1.28E-01	0	0	0	0	0.00E+00	0.00E+00
Drainage System	Material Movement (Unpaved Roads)	0	0	0	0	4.68E-03	4.68E-04	0	0	0	0	0.00E+00	0.00E+00
Drainage System	Material Movement (Paved Roads)	0	0	0	0	#VALUE!	#######	0	0	0	0	0.00E+00	0.00E+00
Terminal Apron	Concrete Mixing/Batching	0	0	0	0	#######	#######	0	0	0	0	7.92E-01	1.19E-01
Terminal Apron	Material Movement (Unpaved Roads)	0	0	0	0	#######	#######	0	0	0	0	3.04E-01	3.04E-02
Terminal Apron	Material Movement (Paved Roads)	0	0	0	0	#######	#######	0	0	0	0	9.98E-02	2.49E-02
Terminal Apron	Unstabilized Land and Wind Erosion	0	0	0	0	#######	#######	0	0	0	0	8.52E-01	1.28E-01
Rehabilitate Runway	Soil Handling	0	0	0	0	4.41E-01	6.62E-02	0	0	0	0	2.98E-02	4.47E-03
Rehabilitate Runway	Unstabilized Land and Wind Erosion	0	0	0	0	8.93E-01	1.34E-01	0	0	0	0	2.87E-02	4.30E-03
Rehabilitate Runway	Material Movement (Unpaved Roads)	0	0	0	0	1.98E-01	1.98E-02	0	0	0	0	1.36E-02	1.36E-03
Rehabilitate Runway	Material Movement (Paved Roads)	0	0	0	0	5.80E-02	1.45E-02	0	0	0	0	3.99E-03	9.98E-04
Cargo Apron	Unstabilized Land and Wind Erosion	0	0	0	0	5.80E-01	8.70E-02	0	0	0	0	0.00E+00	0.00E+00
Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	0	0	0	0	3.59E-02	8.98E-03	0	0	0	0	4.79E-02	1.20E-02
Building - 30000 sqft- 3 stories	Concrete Mixing/Batching	0	0	0	0	7.70E-02	1.16E-02	0	0	0	0	1.54E-01	2.31E-02
Building - 30000 sqft- 3 stories	Material Movement (Paved Roads)	0	0	0	0	2.39E-02	5.99E-03	0	0	0	0	6.28E-02	1.57E-02
Building - 500000 sqft- 20 stories	Concrete Mixing/Batching	0	0	0	0	4.28E-01	6.42E-02	0	0	0	0	4.28E-01	6.42E-02
Building - 30000 sqft- 3 stories	Material Movement (Unpaved Roads)	0	0	0	0	1.77E-02	1.77E-03	0	0	0	0	5.30E-02	5.30E-03
Site Work - 10000 sqft	Material Movement (Unpaved Roads)	0	0	0	0	#######	#######	0	0	0	0	5.89E-03	5.89E-04
Service Road	Concrete Mixing/Batching	0	0	0	0	4.28E-02	6.42E-03	0	0	0	0	0.00E+00	0.00E+00
Service Road	Material Movement (Unpaved Roads)	0	0	0	0	3.53E-02	3.53E-03	0	0	0	0	0.00E+00	0.00E+00
Service Road	Material Movement (Paved Roads)	0	0	0	0	1.20E-02	2.99E-03	0	0	0	0	0.00E+00	0.00E+00
Terminal Apron	Soil Handling	0	0	0	0	#######	#######	0	0	0	0	9.23E-02	1.38E-02
Parking Structure - 240000 sqft- G+2 stories	Concrete Mixing/Batching	0	0	0	0	#######	#######	0	0	0	0	2.05E-01	3.08E-02
Parking Structure - 240000 sqft- G+2 stories	Material Movement (Paved Roads)	0	0	0	0	#######	#######	0	0	0	0	5.39E-02	1.35E-02
Parking Structure - 240000 sqft- G+2 stories	Material Movement (Unpaved Roads)	0	0	0	0	#######	#######	0	0	0	0	1.60E-01	1.60E-02
Demolition - Concrete	Soil Handling	0	0	0	0	1.33E-01	2.00E-02	0	0	0	0	6.51E-02	9.76E-03
Demolition - Concrete	Unstabilized Land and Wind Erosion	0	0	0	0	7.73E-01	1.16E-01	0	0	0	0	1.86E-01	2.79E-02
Demolition - Concrete	Material Movement (Unpaved Roads)	0	0	0	0	4.61E-02	4.61E-03	0	0	0	0	2.29E-02	2.29E-03
Demolition - Concrete	Material Movement (Paved Roads)	0	0	0	0	1.20E-02	2.99E-03	0	0	0	0	5.99E-03	1.50E-03
	TOTAL (Tons Per Year)	*0.00000*	*0.00000*	*0.01217*	*0.00000*	*6.90357*	*1.03950*	*0.00000*	*0.00000*	*0.00000*	*0.00000*	*3.96229*	*0.61324*

Project Type	Construction Activity	2026 Emissions (tons/yr)						2027 Emissions (tons/yr)						2028 Emissions (tons/yr)					
		NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$	NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$
Building - 100000 sqft- 10 stories	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Building - 100000 sqft- 10 stories	Material Movement (Paved Roads)	0	0	0	0	1.80E-02	4.49E-03	0	0	0	0	1.80E-02	4.49E-03	0	0	0	0	1.80E-02	4.49E-03
Fencing	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Fencing	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Soil Handling	0	0	0	0	1.27E-02	1.91E-03	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Unstabilized Land and Wind Erosion	0	0	0	0	2.32E-02	3.48E-03	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Material Movement (Unpaved Roads)	0	0	0	0	1.88E-02	1.88E-03	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Material Movement (Paved Roads)	0	0	0	0	5.99E-03	1.50E-03	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Site Work - 10000 sqft	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Access Road	Concrete Mixing/Batching	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	4.84E-02	7.25E-03	0	0	0	0	5.60E-02	8.41E-03
Access Road	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	2.74E-02	2.74E-03	0	0	0	0	3.18E-02	3.18E-03
Access Road	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	8.98E-03	2.25E-03	0	0	0	0	1.04E-02	2.61E-03
Access Road	Unstabilized Land and Wind Erosion	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	4.57E-02	6.85E-03	0	0	0	0	6.12E-02	9.17E-03
Access Road	Soil Handling	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	1.60E-02	2.40E-03	0	0	0	0	1.85E-02	2.78E-03
Open Parking Lot @Grade - 10000 sqft	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Open Parking Lot @Grade - 10000 sqft	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Open Parking Lot @Grade - 10000 sqft	Asphalt Drying	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Hangar Building - 10000 sqft- 1 story	Concrete Mixing/Batching	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Hangar Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Building - 500000 sqft- 20 stories	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Detention Basin	Unstabilized Land and Wind Erosion	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Detention Basin	Soil Handling	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Detention Basin	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Detention Basin	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Parking Lot	Concrete Mixing/Batching	0	0	0	0	3.85E-02	5.77E-03	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Drainage System	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Drainage System	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Terminal Apron	Concrete Mixing/Batching	0	0	0	0	5.55E-01	8.33E-02	0	0	0	0	4.62E-01	6.93E-02	0	0	0	0	0.00E+00	0.00E+00
Terminal Apron	Material Movement (Unpaved Roads)	0	0	0	0	2.44E-01	2.44E-02	0	0	0	0	1.81E-01	1.81E-02	0	0	0	0	0.00E+00	0.00E+00
Terminal Apron	Material Movement (Paved Roads)	0	0	0	0	7.78E-02	1.95E-02	0	0	0	0	5.79E-02	1.45E-02	0	0	0	0	0.00E+00	0.00E+00
Terminal Apron	Unstabilized Land and Wind Erosion	0	0	0	0	9.02E-01	1.35E-01	0	0	0	0	2.78E-01	4.18E-02	0	0	0	0	0.00E+00	0.00E+00
Rehabilitate Runway	Soil Handling	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Rehabilitate Runway	Unstabilized Land and Wind Erosion	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Rehabilitate Runway	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Rehabilitate Runway	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Cargo Apron	Unstabilized Land and Wind Erosion	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Building - 30000 sqft- 3 stories	Concrete Mixing/Batching	0	0	0	0	1.28E-01	1.93E-02	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Building - 30000 sqft- 3 stories	Material Movement (Paved Roads)	0	0	0	0	3.35E-02	8.37E-03	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Building - 500000 sqft- 20 stories	Concrete Mixing/Batching	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Building - 30000 sqft- 3 stories	Material Movement (Unpaved Roads)	0	0	0	0	1.77E-02	1.77E-03	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Site Work - 10000 sqft	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Service Road	Concrete Mixing/Batching	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Service Road	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Service Road	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Terminal Apron	Soil Handling	0	0	0	0	1.84E-01	2.76E-02	0	0	0	0	1.53E-01	2.29E-02	0	0	0	0	0.00E+00	0.00E+00
Parking Structure - 240000 sqft- G+2 stories	Concrete Mixing/Batching	0	0	0	0	2.05E-01	3.08E-02	0	0	0	0	2.05E-01	3.08E-02	0	0	0	0	0.00E+00	0.00E+00
Parking Structure - 240000 sqft- G+2 stories	Material Movement (Paved Roads)	0	0	0	0	5.99E-02	1.50E-02	0	0	0	0	5.39E-02	1.35E-02	0	0	0	0	0.00E+00	0.00E+00
Parking Structure - 240000 sqft- G+2 stories	Material Movement (Unpaved Roads)	0	0	0	0	1.78E-01	1.78E-02	0	0	0	0	1.60E-01	1.60E-02	0	0	0	0	0.00E+00	0.00E+00
Demolition - Concrete	Soil Handling	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Demolition - Concrete	Unstabilized Land and Wind Erosion	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Demolition - Concrete	Material Movement (Unpaved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
Demolition - Concrete	Material Movement (Paved Roads)	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00	0	0	0	0	0.00E+00	0.00E+00
	TOTAL (Tons Per Year)	*0.00000*	*0.00000*	*0.00000*	*0.00000*	*2.70225*	*0.40193*	*0.00000*	*0.00000*	*0.00000*	*0.00000*	*1.71658*	*0.25290*	*0.00000*	*0.00000*	*0.00000*	*0.00000*	*0.19595*	*0.03064*

Fugitive Emissions (tons/yr)							
Process	Year	NOx	CO	VOC	SO_2	PM_{10}	$PM_{2.5}$
FUGITIVE	**2024**	0.0000	0.0000	0.01	0.00	6.90	1.04
	2025	0.0000	0.0000	0.00	0.00	3.96	0.61
	2026	0.0000	0.0000	0.00	0.00	2.70	0.40
	2027	0.0000	0.0000	0.00	0.00	1.72	0.25
	2028	0.0000	0.0000	0.00	0.00	0.20	0.03

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/16/2026 8:45:58 AM

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STUDY

Study Name

DFW CTA SEA

Study Description

Construction 2025

2025 DFW CTA Supplemental EA Construction Emissions

Non-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO_2, CH_4, and N_2O) Emission: Metric Ton

Scenario ID	Year	Project	Construction Activity	Equipment	TEXN2.6 Equipment	TEXN2.6 Lookup	Fuel	HP Average	Load Factor	Hours of Activity	TEXN2.6 NONROAD Emission Factors (g/hp-hr) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	TEXN2.6 Nonroad Emissions (Tons Per Year) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2025	Terminal Apron	Asphalt Placement	Asphalt Paver	Pavers	Pavers175	Diesel	175	0.59	14.221875	0.66686	1.73077	0.00160	0.11318	0.10978	0.13626	0.00108	0.00280	0.00000	0.00018	0.00018	0.00022
1	2025	Terminal Apron	Asphalt Placement	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	51.22115926	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00382	0.00947	0.00003	0.00065	0.00063	0.00055
1	2025	Terminal Apron	Asphalt Placement	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	28.44375	0.48037	1.25595	0.00159	0.11159	0.10824	0.08678	0.00113	0.00296	0.00000	0.00026	0.00026	0.00020
1	2025	Terminal Apron	Asphalt Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	14.221875	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00106	0.00263	0.00001	0.00018	0.00018	0.00015
1	2025	Terminal Apron	Asphalt Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	14.221875	1.41073	2.07830	0.00196	0.22252	0.21585	0.16411	0.00130	0.00192	0.00000	0.00021	0.00020	0.00015
1	2025	Terminal Apron	Asphalt Placement	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	14.221875	0.15750	2.06592	0.00188	0.01521	0.01476	0.04153	0.00004	0.00051	0.00000	0.00000	0.00000	0.00001
1	2025	Terminal Apron	Asphalt Placement	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	Diesel	25	0.59	18.204	1.27919	3.17038	0.00233	0.14598	0.14160	0.30184	0.00038	0.00094	0.00000	0.00004	0.00004	0.00009
1	2025	Terminal Apron	Clearing and Grubbing	Chain Saw	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.7	31.2	1.77770	2.98805	0.00198	0.17351	0.16831	0.59368	0.00047	0.00079	0.00000	0.00005	0.00004	0.00016
1	2025	Terminal Apron	Clearing and Grubbing	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	31.2	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.00188	0.00271	0.00000	0.00029	0.00028	0.00019
1	2025	Terminal Apron	Clearing and Grubbing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	41.6	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00310	0.00769	0.00002	0.00053	0.00051	0.00045
1	2025	Terminal Apron	Drainage - 24 inch SICPP	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	33.12	0.19603	0.55742	0.00139	0.04630	0.04491	0.03464	0.00074	0.00210	0.00001	0.00017	0.00017	0.00013
1	2025	Terminal Apron	Drainage - 24 inch SICPP	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	33.12	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00247	0.00612	0.00002	0.00042	0.00041	0.00036
1	2025	Terminal Apron	Drainage - 24 inch SICPP	Excavator	Excavators	Excavators175	Diesel	175	0.59	33.12	0.17243	0.49534	0.00145	0.04216	0.04090	0.02888	0.00065	0.00187	0.00001	0.00016	0.00015	0.00011
1	2025	Terminal Apron	Drainage - 24 inch SICPP	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	33.12	0.82743	1.48196	0.00138	0.14683	0.14243	0.22494	0.00312	0.00559	0.00001	0.00055	0.00054	0.00085
1	2025	Terminal Apron	Drainage - 24 inch SICPP	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	33.12	0.48037	1.25595	0.00159	0.11159	0.10824	0.08678	0.00132	0.00345	0.00000	0.00031	0.00030	0.00024
1	2025	Terminal Apron	Drainage - 24 inch SICPP	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	33.12	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00247	0.00612	0.00002	0.00042	0.00041	0.00036
1	2025	Terminal Apron	Drainage - 24 inch SICPP	Roller	Rollers	Rollers100	Diesel	100	0.59	33.12	1.41073	2.07830	0.00196	0.22252	0.21585	0.16411	0.00304	0.00448	0.00000	0.00048	0.00046	0.00035
1	2025	Terminal Apron	Drainage - 6 inch Perforated Underdrai	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	18.4	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00137	0.00340	0.00001	0.00023	0.00023	0.00020
1	2025	Terminal Apron	Drainage - 6 inch Perforated Underdrai	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	18.4	0.82743	1.48196	0.00138	0.14683	0.14243	0.22494	0.00173	0.00310	0.00000	0.00031	0.00030	0.00047
1	2025	Terminal Apron	Drainage - 6 inch Perforated Underdrai	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	18.4	0.48037	1.25595	0.00159	0.11159	0.10824	0.08678	0.00073	0.00192	0.00000	0.00017	0.00017	0.00013
1	2025	Terminal Apron	Drainage - 6 inch Perforated Underdrai	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	18.4	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00137	0.00340	0.00001	0.00023	0.00023	0.00020
1	2025	Terminal Apron	Drainage - 6 inch Perforated Underdrai	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	18.4	0.92470	1.32988	0.00205	0.13558	0.13152	0.13697	0.00039	0.00057	0.00000	0.00006	0.00006	0.00006
1	2025	Terminal Apron	Dust Control	Water Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	720	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.05370	0.13306	0.00035	0.00919	0.00891	0.00776
1	2025	Terminal Apron	Excavation (Borrow)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	63.208	0.19603	0.55742	0.00139	0.04630	0.04491	0.03464	0.00141	0.00401	0.00001	0.00033	0.00032	0.00025
1	2025	Terminal Apron	Excavation (Borrow)	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	63.208	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00471	0.01168	0.00003	0.00081	0.00078	0.00068
1	2025	Terminal Apron	Excavation (Borrow)	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	63.208	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00471	0.01168	0.00003	0.00081	0.00078	0.00068
1	2025	Terminal Apron	Excavation (Borrow)	Roller	Rollers	Rollers100	Diesel	100	0.59	29.17292308	1.41073	2.07830	0.00196	0.22252	0.21585	0.16411	0.00268	0.00394	0.00000	0.00042	0.00041	0.00031
1	2025	Terminal Apron	Excavation (Cut to Fill)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	47.406	0.19603	0.55742	0.00139	0.04630	0.04491	0.03464	0.00106	0.00301	0.00001	0.00025	0.00024	0.00019
1	2025	Terminal Apron	Excavation (Cut to Fill)	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	126.416	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00943	0.02336	0.00006	0.00161	0.00156	0.00136
1	2025	Terminal Apron	Excavation (Cut to Fill)	Excavator	Excavators	Excavators175	Diesel	175	0.59	37.9248	0.17243	0.49534	0.00145	0.04216	0.04090	0.02888	0.00074	0.00214	0.00001	0.00018	0.00018	0.00012
1	2025	Terminal Apron	Excavation (Cut to Fill)	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	37.9248	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00283	0.00701	0.00002	0.00048	0.00047	0.00041
1	2025	Terminal Apron	Excavation (Cut to Fill)	Roller	Rollers	Rollers100	Diesel	100	0.59	37.9248	1.41073	2.07830	0.00196	0.22252	0.21585	0.16411	0.00348	0.00513	0.00000	0.00055	0.00053	0.00040
1	2025	Terminal Apron	Excavation (Cut to Fill)	Scraper	Scrapers	Scrapers600	Diesel	600	0.59	47.406	0.39040	0.91968	0.00138	0.06078	0.05896	0.05433	0.00722	0.01701	0.00003	0.00112	0.00109	0.00101
1	2025	Terminal Apron	Excavation (Topsoil Stripping)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	17.84705882	0.19603	0.55742	0.00139	0.04630	0.04491	0.03464	0.00040	0.00113	0.00000	0.00009	0.00009	0.00007
1	2025	Terminal Apron	Fencing	Concrete Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	11.38888889	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00085	0.00210	0.00001	0.00015	0.00014	0.00012
1	2025	Terminal Apron	Fencing	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	45.55555556	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00340	0.00842	0.00002	0.00058	0.00056	0.00049
1	2025	Terminal Apron	Fencing	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	45.55555556	0.48037	1.25595	0.00159	0.11159	0.10824	0.08678	0.00182	0.00475	0.00001	0.00042	0.00041	0.00033
1	2025	Terminal Apron	Fencing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	45.55555556	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00340	0.00842	0.00002	0.00058	0.00056	0.00049
1	2025	Terminal Apron	Fencing	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	45.55555556	0.15750	2.06592	0.00188	0.01521	0.01476	0.04153	0.00012	0.00163	0.00000	0.00001	0.00001	0.00003
1	2025	Terminal Apron	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	45.55555556	0.92470	1.32988	0.00205	0.13558	0.13152	0.13697	0.00098	0.00140	0.00000	0.00014	0.00014	0.00014
1	2025	Terminal Apron	Grading	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	12.6374	0.19603	0.55742	0.00139	0.04630	0.04491	0.03464	0.00028	0.00080	0.00000	0.00007	0.00006	0.00005
1	2025	Terminal Apron	Grading	Grader	Graders	Graders300	Diesel	300	0.59	12.6374	0.37207	1.09927	0.00141	0.06017	0.05836	0.08899	0.00092	0.00271	0.00000	0.00015	0.00014	0.00022
1	2025	Terminal Apron	Grading	Roller	Rollers	Rollers100	Diesel	100	0.59	12.6374	1.41073	2.07830	0.00196	0.22252	0.21585	0.16411	0.00116	0.00171	0.00000	0.00018	0.00018	0.00013
1	2025	Terminal Apron	Hydroseeding	Hydroseeder	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	11.385	0.83079	1.75434	0.00157	0.12214	0.11848	0.11592	0.00369	0.00779	0.00001	0.00054	0.00053	0.00051
1	2025	Terminal Apron	Hydroseeding	Off-Road Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	11.385	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00085	0.00210	0.00001	0.00015	0.00014	0.00012
1	2025	Terminal Apron	Lighting	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	15	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00112	0.00277	0.00001	0.00019	0.00019	0.00016
1	2025	Terminal Apron	Lighting	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	15	0.82743	1.48196	0.00138	0.14683	0.14243	0.22494	0.00141	0.00253	0.00000	0.00025	0.00024	0.00038
1	2025	Terminal Apron	Lighting	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	15	0.48037	1.25595	0.00159	0.11159	0.10824	0.08678	0.00060	0.00156	0.00000	0.00014	0.00013	0.00011
1	2025	Terminal Apron	Lighting	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	15	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00112	0.00277	0.00001	0.00019	0.00019	0.00016
1	2025	Terminal Apron	Lighting	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	15	0.15750	2.06592	0.00188	0.01521	0.01476	0.04153	0.00004	0.00054	0.00000	0.00000	0.00000	0.00001
1	2025	Terminal Apron	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	15	0.92470	1.32988	0.00205	0.13558	0.13152	0.13697	0.00032	0.00046	0.00000	0.00005	0.00005	0.00005
1	2025	Terminal Apron	Markings	Flatbed Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	234.2857143	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.01747	0.04330	0.00012	0.00299	0.00290	0.00252
1	2025	Terminal Apron	Markings	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	234.2857143	0.48037	1.25595	0.00159	0.11159	0.10824	0.08678	0.00934	0.02441	0.00003	0.00217	0.00210	0.00169
1	2025	Terminal Apron	Markings	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	234.2857143	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.01747	0.04330	0.00012	0.00299	0.00290	0.00252
1	2025	Terminal Apron	Sealing/Fuel Resistant	Distributing Tanker	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	30.34	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00226	0.00561	0.00001	0.00039	0.00038	0.00033
1	2025	Terminal Apron	Sealing/Fuel Resistant	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	30.34	0.48037	1.25595	0.00159	0.11159	0.10824	0.08678	0.00121	0.00316	0.00000	0.00028	0.00027	0.00022
1	2025	Terminal Apron	Sealing/Fuel Resistant	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	30.34	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00226	0.00561	0.00001	0.00039	0.00038	0.00033
1	2025	Terminal Apron	Soil Erosion/Sediment Control	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	10.4	0.48037	1.25595	0.00159	0.11159	0.10824	0.08678	0.00041	0.00108	0.00000	0.00010	0.00009	0.00007
1	2025	Terminal Apron	Soil Erosion/Sediment Control	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	20.8	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00155	0.00384	0.00001	0.00027	0.00026	0.00022
1	2025	Terminal Apron	Soil Erosion/Sediment Control	Pumps	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	10.4	1.77770	2.98805	0.00198	0.17351	0.16831	0.59368	0.00010	0.00016	0.00000	0.00001	0.00001	0.00003
1	2025	Terminal Apron	Soil Erosion/Sediment Control	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	10.4	0.92470	1.32988	0.00205	0.13558	0.13152	0.13697	0.00022	0.00032	0.00000	0.00003	0.00003	0.00003
1	2025	Terminal Apron	Subbase Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	23.95263158	0.19603	0.55742	0.00139	0.04630	0.04491	0.03464	0.00053	0.00152	0.00000	0.00013	0.00012	0.00009
1	2025	Terminal Apron	Subbase Placement	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	168.5555556	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.01257	0.03115	0.00008	0.00215	0.00209	0.00182
1	2025	Terminal Apron	Subbase Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	23.95263158	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00179	0.00443	0.00001	0.00031	0.00030	0.00026
1	2025	Terminal Apron	Subbase Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	23.33846154	1.41073	2.07830	0.00196	0.22252	0.21585	0.16411	0.00214	0.00315	0.00000	0.00034	0.00033	0.00025
1	2025	Terminal Apron	Topsoil Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	28.08266667	0.19603	0.55742	0.00139	0.04630	0.04491	0.03464	0.00063	0.00178	0.00000	0.00015	0.00014	0.00011
1	2025	Terminal Apron	Topsoil Placement	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	28.08266667	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00209	0.00519	0.00001	0.00036	0.00035	0.00030
1	2025	Terminal Apron	Topsoil Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	28.08266667	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00209	0.00519	0.00001	0.00036	0.00035	0.00030
2	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	0.92470	1.32988	0.00205	0.13558	0.13152	0.13697	0.00685	0.00985	0.00002	0.00100	0.00097	0.00101
2	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00447	0.01109	0.00003	0.00077	0.00074	0.00065
2	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	320	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.02646	0.03818	0.00004	0.00412	0.00400	0.00265
2	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00597	0.01478	0.00004	0.00102	0.00099	0.00086
2	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00119	0.00296	0.00001	0.00020	0.00020	0.00017
2	2025	Building - 10000 sqft- 1 story	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00075	0.00185	0.00000	0.00013	0.00012	0.00011
2	2025	Building - 10000 sqft- 1 story	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00030	0.00074	0.00000	0.00005	0.00005	0.00004
2	2025	Building - 10000 sqft- 1 story	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	240	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.01985	0.02863	0.00003	0.00309	0.00300	0.00199
2	2025	Building - 10000 sqft- 1 story	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.58015	2.35467	0.00181	0.06992	0.06783	0.09290	0.00242	0.00981	0.00001	0.00029	0.00028	0.00039
2	2025	Building - 10000 sqft- 1 story	Exterior Wall Framing	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00447	0.01109	0.00003	0.00077	0.00074	0.00065
2	2025	Building - 10000 sqft- 1 story	Exterior Wall Framing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00179	0.00444	0.00001	0.00031	0.00030	0.00026
2	2025	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	960	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.07938	0.11453	0.00012	0.01237	0.01200	0.00796
2	2025	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.58015	2.35467	0.00181	0.06992	0.06783	0.09290	0.00967	0.03925	0.00003	0.00117	0.00113	0.00155
2	2025	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00895	0.02218	0.00006	0.00153	0.00149	0.00129
2	2025	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00895	0.02218	0.00006	0.00153	0.00149	0.00129
2	2025	Building - 10000 sqft- 1 story	Roofing	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.68546	1.35205	0.00187	0.10913	0.10585	0.05701	0.00535	0.01055	0.00001	0.00085	0.00083	0.00044
2	2025	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.58015	2.35467	0.00181	0.06992	0.06783	0.09290	0.00121	0.00491	0.00000	0.00015	0.00014	0.00019
2	2025	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	8	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00060	0.00148	0.00000	0.00010	0.00010	0.00009
2	2025	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	12	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00089	0.00222	0.00001	0.00015	0.00015	0.00013
2	2025	Building - 10000 sqft- 1 story	Security & Safety Systems	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.68546	1.35205	0.00187	0.10913	0.10585	0.05701	0.01427	0.02814	0.00004	0.00227	0.00220	0.00119
2	2025	Building - 10000 sqft- 1 story	Security & Safety Systems	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00597	0.01478	0.00004	0.00102	0.00099	0.00086
2	2025	Building - 10000 sqft- 1 story	Structural Steel Erection	40 Ton Crane	Cranes	Cranes300	Diesel	300	0.43	240	0.20118	0.83268	0.00154	0.04173	0.04048	0.05685	0.00687	0.02842	0.00005	0.00142	0.00138	0.00194
2	2025	Building - 10000 sqft- 1 story	Structural Steel Erection	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	120	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.00992	0.01432	0.00001	0.00155	0.00150	0.00100
2	2025	Building - 10000 sqft- 1 story	Structural Steel Erection	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00447	0.01109	0.00003	0.00077	0.00074	0.00065
2	2025	Building - 10000 sqft- 1 story	Structural Steel Erection	Tractor Trailer- Steel Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00119	0.00296	0.00001	0.00020	0.00020	0.00017
3	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	0.92470	1.32988	0.00205	0.13558	0.13152	0.13697	0.00685	0.00985	0.00002	0.00100	0.00097	0.00101
3	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00447	0.01109	0.00003	0.00077	0.00074	0.00065
3	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	320	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.02646	0.03818	0.00004	0.00412	0.00400	0.00265
3	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00597	0.01478	0.00004	0.00102	0.00099	0.00086
3	2025	Building - 10000 sqft- 1 story	Concrete Foundations	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00119	0.00296	0.00001	0.00020	0.00020	0.00017
3	2025	Building - 10000 sqft- 1 story	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00075	0.00185	0.00000	0.00013	0.00012	0.00011
3	2025	Building - 10000 sqft- 1 story	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00030	0.00074	0.00000	0.00005	0.00005	0.00004
3	2025	Building - 10000 sqft- 1 story	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	240	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.01985	0.02863	0.00003	0.00309	0.00300	0.00199
3	2025	Building - 10000 sqft- 1 story	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.58015	2.35467	0.00181	0.06992	0.06783	0.09290	0.00242	0.00981	0.00001	0.00029	0.00028	0.00039
3	2025	Building - 10000 sqft- 1 story	Exterior Wall Framing	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00447	0.01109	0.00003	0.00077	0.00074	0.00065
3	2025	Building - 10000 sqft- 1 story	Exterior Wall Framing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00179	0.00444	0.00001	0.00031	0.00030	0.00026
3	2025	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	960	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.07938	0.11453	0.00012	0.01237	0.01200	0.00796
3	2025	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.58015	2.35467	0.00181	0.06992	0.06783	0.09290	0.00967	0.03925	0.00003	0.00117	0.00113	0.00155
3	2025	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00895	0.02218	0.00006	0.00153	0.00149	0.00129
3	2025	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00895	0.02218	0.00006	0.00153	0.00149	0.00129
3	2025	Building - 10000 sqft- 1 story	Roofing	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.68546	1.35205	0.00187	0.10913	0.10585	0.05701	0.00535	0.01055	0.00001	0.00085	0.00083	0.00044
3	2025	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.58015	2.35467	0.00181	0.06992	0.06783	0.09290	0.00121	0.00491	0.00000	0.00015	0.00014	0.00019
3	2025	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	8	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00060	0.00148	0.00000	0.00010	0.00010	0.00009
3	2025	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	12	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00089	0.00222	0.00001	0.00015	0.00015	0.00013
3	2025	Building - 10000 sqft- 1 story	Security & Safety Systems	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.68546	1.35205	0.00187	0.10913	0.10585	0.05701	0.01427	0.02814	0.00004	0.00227	0.00220	0.00119
3	2025	Building - 10000 sqft- 1 story	Security & Safety Systems	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00597	0.01478	0.00004	0.00102	0.00099	0.00086
3	2025	Building - 10000 sqft- 1 story	Structural Steel Erection	40 Ton Crane	Cranes	Cranes300	Diesel	300	0.43	240	0.20118	0.83268	0.00154	0.04173	0.04048	0.05685	0.00687	0.02842	0.00005	0.00142	0.00138	0.00194
3	2025	Building - 10000 sqft- 1 story	Structural Steel Erection	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	120	1.27144	1.83432	0.00190	0.19818	0.19224	0.12753	0.00992	0.01432	0.00001	0.00155	0.00150	0.00100
3	2025	Building - 10000 sqft- 1 story	Structural Steel Erection	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00447	0.01109	0.00003	0.00077	0.00074	0.00065
3	2025	Building - 10000 sqft- 1 story	Structural Steel Erection	Tractor Trailer- Steel Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.19112	0.47358	0.00126	0.03271	0.03172	0.02761	0.00119	0.00296	0.00001	0.00020	0.00020	0.00017
																TOTAL (Tons Per Year)	**0.687**	**1.434**	**0.003**	**0.113**	**0.109**	**0.089**

On-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO_2, CH_4, and N_2O) Emission: Metric Ton

Scenario ID	Year	Project	Equipment	Equipment Category	MOVES5 Onroad Lookup	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Distance for fugitive PM	Number of Vehicles	Number of Employees Or $M*11	Number of Project Days	Project Length	Project Width	Project Area	Building Height (Building	Open Space Height (Building	Number of Trees	Activity Rate	VMT	MOVES5 Onroad Emission Factor (g/mile) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	MOVES Onroad Emissions (Tons Per Year) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2025	Terminal Apron	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	1	--	65	1025	100	--	--	--	--	--	1,487	2.92470	4.55061	0.00599	0.46816	0.17478	0.08591	0.00479	0.00746	0.00001	0.00077	0.00029	0.00014
1	2025	Terminal Apron	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	1	--	65	1025	100	--	--	--	--	--	2,107	0.99364	1.29064	0.00284	0.13047	0.04792	0.04070	0.00231	0.00300	0.00001	0.00030	0.00011	0.00009
1	2025	Terminal Apron	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	3	--	65	1025	100	--	--	--	--	--	12,642	0.99364	1.29064	0.00284	0.13047	0.04792	0.04070	0.01385	0.01799	0.00004	0.00182	0.00067	0.00057
1	2025	Terminal Apron	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrestricted	30	--	114.543	114.543	65	--	--	--	--	--	--	--	223,359	2.91584	0.04321	0.00256	0.02961	0.00774	0.04501	0.71792	0.01064	0.00063	0.00729	0.00190	0.01108
2	2025	Building - 10000 sqft- 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	1	--	43	--	--	10000	--	--	--	--	2,313	0.99364	1.29064	0.00284	0.13047	0.04792	0.04070	0.00253	0.00329	0.00001	0.00033	0.00012	0.00010
2	2025	Building - 10000 sqft- 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	1	--	43	--	--	10000	--	--	--	--	1,233	0.99364	1.29064	0.00284	0.13047	0.04792	0.04070	0.00135	0.00175	0.00000	0.00018	0.00007	0.00006
2	2025	Building - 10000 sqft- 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrestricted	30	--	0.0836	0.0836	43	--	--	--	--	--	--	--	108	2.91584	0.04321	0.00256	0.02961	0.00774	0.04501	0.00035	0.00001	0.00000	0.00000	0.00000	0.00001
2	2025	Building - 10000 sqft- 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	1	--	43	--	--	10000	--	--	--	0.0016	160	2.92470	4.55061	0.00599	0.46816	0.17478	0.08591	0.00052	0.00080	0.00000	0.00008	0.00003	0.00002
3	2025	Building - 10000 sqft- 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	1	--	43	--	--	10000	--	--	--	--	2,313	0.99364	1.29064	0.00284	0.13047	0.04792	0.04070	0.00253	0.00329	0.00001	0.00033	0.00012	0.00010
3	2025	Building - 10000 sqft- 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	1	--	43	--	--	10000	--	--	--	--	1,233	0.99364	1.29064	0.00284	0.13047	0.04792	0.04070	0.00135	0.00175	0.00000	0.00018	0.00007	0.00006
3	2025	Building - 10000 sqft- 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrestricted	30	--	455.917	455.917	43	--	--	--	--	--	--	--	588,133	2.91584	0.04321	0.00256	0.02961	0.00774	0.04501	1.89037	0.02801	0.00166	0.01920	0.00502	0.02918
3	2025	Building - 10000 sqft- 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrestricted	40	5	1	--	43	--	--	10000	--	--	--	0.0016	160	2.92470	4.55061	0.00599	0.46816	0.17478	0.08591	0.00052	0.00080	0.00000	0.00008	0.00003	0.00002
																											TOTAL (Tons Per Year)	**2.63838**	**0.07879581**	**0.00236707**	**0.03056759**	**0.008423501**	**0.041422771**

Fugitive Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive Source Type	Number of Months	CO	NOx	SO_2	PM_{10}	VOC
1	2025	Terminal Apron	Asphalt Drying	3	0.00000	0.00000	0.00000	0.00000	0.12455
1	2025	Terminal Apron	Asphalt Storage and Batching	3	0.24800	0.01550	0.00285	0.01700	0.00770
1	2025	Terminal Apron	Material Movement (Paved Roads)	3	0.00000	0.00000	0.00000	0.00755	0.00000
1	2025	Terminal Apron	Material Movement (Unpaved Roads)	3	0.00000	0.00000	0.00000	0.02715	0.00000
1	2025	Terminal Apron	Soil Handling	3	0.00000	0.00000	0.00000	0.02900	0.00000
1	2025	Terminal Apron	Unstabilized Land and Wind Erosion	3	0.00000	0.00000	0.00000	0.00000	0.00000
2	2025	Building - 10000 sqft- 1 story	Concrete Mixing/Batching	2	0.00000	0.00000	0.00000	0.00855	0.00000
2	2025	Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	2	0.00000	0.00000	0.00000	0.00200	0.00000
2	2025	Building - 10000 sqft- 1 story	Material Movement (Unpaved Roads)	2	0.00000	0.00000	0.00000	0.00590	0.00000
3	2025	Building - 10000 sqft- 1 story	Concrete Mixing/Batching	2	0.00000	0.00000	0.00000	0.00855	0.00000
3	2025	Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	2	0.00000	0.00000	0.00000	0.00200	0.00000
3	2025	Building - 10000 sqft- 1 story	Material Movement (Unpaved Roads)	2	0.00000	0.00000	0.00000	0.00590	0.00000
				TOTAL (Tons Per Year)	**0.24800**	**0.01550**	**0.00285**	**0.11359**	**0.13225**

Total Construction Emissions By Source

Emission Source	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
NonRoad	0.69	1.43	0.00	0.11	0.11	0.09
OnRoad	2.64	0.08	0.00	0.03	0.01	0.04
Fugitive	0.25	0.02	0.00	0.11	--	0.13
TOTAL (Tons Per Year)	**3.573**	**1.528**	**0.008**	**0.257**	**0.118**	**0.262**

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INPUT DATA AND SPECIFICATIONS

State/County
Texas
Dallas County

Scenarios

Scei	Year	Number o	Season	Average Daily Temp (degF)	Max Daily Temp Change (degF)	Min Daily Temp Change (degF)
1	2025	3	Summer	T <= 10	20 <= Change in T	20 <= Change in T
2	2025	2	Summer	T <= 10	20 <= Change in T	20 <= Change in T
3	2025	2	Summer	T <= 10	20 <= Change in T	20 <= Change in T
4						

Project Final Selections

Scei	Project	Constructi	Equipment	Fuel Type
1	Terminal Apron	Asphalt Pl	Asphalt Paver	Diesel

1	Terminal Apron	Soil Erosic	Pumps	Diesel	2.60 Acre	4 Hours per 1.00 Acre	10.4	hours
1	Terminal Apron	Soil Erosic	Tractors/Loader/Backhoe	Diesel	2.60 Acre	4 Hours per 1.00 Acre	10.4	hours
1	Terminal Apron	Subbase F	Dozer	Diesel	11377.50 SY	8 Hours per 3800.00 SY	23.95	hours
1	Terminal Apron	Subbase F	Dump Truck (12 cy)	Diesel	3792.50 CY	8 Hours per 180.00 CY	168.56	hours
1	Terminal Apron	Subbase F	Pickup Truck	Diesel	11377.50 SY	8 Hours per 3800.00 SY	23.95	hours
1	Terminal Apron	Subbase F	Roller	Diesel	3792.50 CY	8 Hours per 1300.00 CY	23.34	hours
1	Terminal Apron	Topsoil Pl	Dozer	Diesel	2106.20 CY	8 Hours per 600.00 CY	28.08	hours
1	Terminal Apron	Topsoil Pl	Dump Truck	Diesel	2106.20 CY	8 Hours per 600.00 CY	28.08	hours
1	Terminal Apron	Topsoil Pl	Pickup Truck	Diesel	2106.20 CY	8 Hours per 600.00 CY	28.08	hours
2	Building - 10000 sqft- 1 stor	Concrete I	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours
2	Building - 10000 sqft- 1 stor	Concrete I	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours
2	Building - 10000 sqft- 1 stor	Concrete I	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours
2	Building - 10000 sqft- 1 stor	Concrete I	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours
2	Building - 10000 sqft- 1 stor	Concrete I	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours
2	Building - 10000 sqft- 1 stor	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours
2	Building - 10000 sqft- 1 stor	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours
2	Building - 10000 sqft- 1 stor	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours
2	Building - 10000 sqft- 1 stor	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours
2	Building - 10000 sqft- 1 stor	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours
2	Building - 10000 sqft- 1 stor	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours
2	Building - 10000 sqft- 1 stor	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours
2	Building - 10000 sqft- 1 stor	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours
2	Building - 10000 sqft- 1 stor	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
2	Building - 10000 sqft- 1 stor	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
2	Building - 10000 sqft- 1 stor	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
2	Building - 10000 sqft- 1 stor	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
2	Building - 10000 sqft- 1 stor	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours
2	Building - 10000 sqft- 1 stor	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours
2	Building - 10000 sqft- 1 stor	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours
2	Building - 10000 sqft- 1 stor	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours
2	Building - 10000 sqft- 1 stor	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours
2	Building - 10000 sqft- 1 stor	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
2	Building - 10000 sqft- 1 stor	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours
2	Building - 10000 sqft- 1 stor	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours
3	Building - 10000 sqft- 1 stor	Concrete I	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours
3	Building - 10000 sqft- 1 stor	Concrete I	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours
3	Building - 10000 sqft- 1 stor	Concrete I	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours
3	Building - 10000 sqft- 1 stor	Concrete I	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours
3	Building - 10000 sqft- 1 stor	Concrete I	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours
3	Building - 10000 sqft- 1 stor	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours
3	Building - 10000 sqft- 1 stor	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours
3	Building - 10000 sqft- 1 stor	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours
3	Building - 10000 sqft- 1 stor	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours
3	Building - 10000 sqft- 1 stor	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours
3	Building - 10000 sqft- 1 stor	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours
3	Building - 10000 sqft- 1 stor	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours
3	Building - 10000 sqft- 1 stor	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours
3	Building - 10000 sqft- 1 stor	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
3	Building - 10000 sqft- 1 stor	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
3	Building - 10000 sqft- 1 stor	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
3	Building - 10000 sqft- 1 stor	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
3	Building - 10000 sqft- 1 stor	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours
3	Building - 10000 sqft- 1 stor	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours
3	Building - 10000 sqft- 1 stor	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours
3	Building - 10000 sqft- 1 stor	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours
3	Building - 10000 sqft- 1 stor	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours
3	Building - 10000 sqft- 1 stor	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours
3	Building - 10000 sqft- 1 stor	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours
3	Building - 10000 sqft- 1 stor	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours

Activity: On-Road (Estimated based on engineering experience)

Scen	Project	Equipmen	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Number of Employees Or $M*11 (Whichever la	Number of Pr	Project Length	Project Width	Project Area	Building Heigh	Open Space	Number of Tr	Activity Size	Activity Rate	Default VMT	User VMT
1	Terminal Apron	Asphalt 18	Material Delivery	Diesel	Urban Unrestricted Access	40	--	65	1025	100	--	--	--	--	--	--	1487	
1	Terminal Apron	Dump Tru	Material Delivery	Diesel	Urban Unrestricted Access	40	--	65	1025	100	--	--	--	--	--	--	2107	
1	Terminal Apron	Dump Tru	Material Delivery	Diesel	Urban Unrestricted Access	40	--	65	1025	100	--	--	--	--	--	--	12642	
1	Terminal Apron	Passenge	Employee Commute	Gasoline	Urban Unrestricted Access	30	114.543	65	--	--	--	--	--	--	--	--	223359	
2	Building - 10000 sqft- 1 stor	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	43	--	--	10000	--	--	--	--	--	2313	
2	Building - 10000 sqft- 1 stor	Dump Tru	Material Delivery	Diesel	Urban Unrestricted Access	40	--	43	--	--	10000	--	--	--	--	--	1233	
2	Building - 10000 sqft- 1 stor	Passenge	Employee Commute	Gasoline	Urban Unrestricted Access	30	0.0836	43	--	--	--	--	--	--	--	--	108	
2	Building - 10000 sqft- 1 stor	Tractor Tr	Material Delivery	Diesel	Urban Unrestricted Access	40	--	43	--	--	10000	--	--	--	--	0.0016	160	
3	Building - 10000 sqft- 1 stor	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	43	--	--	10000	--	--	--	--	--	2313	
3	Building - 10000 sqft- 1 stor	Dump Tru	Material Delivery	Diesel	Urban Unrestricted Access	40	--	43	--	--	10000	--	--	--	--	--	1233	
3	Building - 10000 sqft- 1 stor	Passenge	Employee Commute	Gasoline	Urban Unrestricted Access	30	455.917	43	--	--	--	--	--	--	--	--	588133	
3	Building - 10000 sqft- 1 stor	Tractor Tr	Material Delivery	Diesel	Urban Unrestricted Access	40	--	43	--	--	10000	--	--	--	--	0.0016	160	

Emission Factor: Non-Road (from NONROAD)

Scen	Project	Constructi	Equipment	Fuel Type	Avg Rated HP	Load Factor	CO (g/hp-hr)	NOx (g/hp-hr)	CO2 (g/hp-hr)	SO2 (g/hp-hr)	PM10 (g/hp-hr)	PM2.5 (g/hp-	VOC Exhaust	VOC Evaporative (g/equipment-day)	
1	Terminal Apron	Asphalt Pl	Asphalt Paver	Diesel	175	0.59	0.192222747	0.41596964	536.399787	0.002626696	0.025032722	0.0230301	0.14217508	0.03477158	
1	Terminal Apron	Asphalt Pl	Dump Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Asphalt Pl	Other General Equipment	Diesel	175	0.43	0.186099139	0.64289491	530.5925645	0.002661896	0.036382906	0.03347227	0.14854068	0.06313579	
1	Terminal Apron	Asphalt Pl	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Asphalt Pl	Roller	Diesel	100	0.59	0.576380092	0.52257071	595.7156085	0.002932009	0.039645797	0.03647413	0.14561666	0.03306208	
1	Terminal Apron	Asphalt Pl	Skid Steer Loader	Diesel	75	0.21	2.975276639	3.99989969	694.3577606	0.00395038	0.398422558	0.36654875	0.54163604	0.27493297	
1	Terminal Apron	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355066798	4.46123898	594.7305565	0.004009206	0.353690726	0.32539547	0.47080119	0	
1	Terminal Apron	Clearing a	Chain Saw	Diesel	11	0.7	293.5350143	1.3229929	685.9963734	0.140191576	9.748189262	8.96833412	61.8883592	25.002038	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Terminal Apron	Clearing a	Chipper/Stump Grinder	Diesel	100	0.43	1.178990687	1.9915581	589.5998744	0.003256552	0.187086348	0.17211944	0.25383819	0.2436062	
1	Terminal Apron	Clearing a	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Drainage	Dozer	Diesel	175	0.59	0.169730465	0.35877009	536.4049983	0.002609627	0.018645853	0.01715418	0.14045454	0.02039903	
1	Terminal Apron	Drainage	Dump Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Drainage	Excavator	Diesel	175	0.59	0.153131107	0.31874802	536.4074308	0.002597047	0.013731856	0.01263331	0.13965534	0.00946411	
1	Terminal Apron	Drainage	Loader	Diesel	175	0.59	0.209444933	0.47498165	536.3950309	0.002639742	0.02982934	0.02744299	0.14374596	0.04580763	
1	Terminal Apron	Drainage	Other General Equipment	Diesel	175	0.43	0.186099139	0.64289491	530.5925645	0.002661896	0.036382906	0.03347227	0.14854068	0.06313579	
1	Terminal Apron	Drainage	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Drainage	Roller	Diesel	100	0.59	0.576380092	0.52257071	595.7156085	0.002932009	0.039645797	0.03647413	0.14561666	0.03306208	
1	Terminal Apron	Drainage	Dump Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Drainage	Loader	Diesel	175	0.59	0.209444933	0.47498165	536.3950309	0.002639742	0.02982934	0.02744299	0.14374596	0.04580763	
1	Terminal Apron	Drainage	Other General Equipment	Diesel	175	0.43	0.186099139	0.64289491	530.5925645	0.002661896	0.036382906	0.03347227	0.14854068	0.06313579	
1	Terminal Apron	Drainage	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Drainage	Tractors/Loader/Backhoe	Diesel	100	0.21	2.605918751	1.84283179	694.8451113	0.003759492	0.322274533	0.29649257	0.38072006	0.37738447	
1	Terminal Apron	Dust Cont	Water Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Excavatio	Dozer	Diesel	175	0.59	0.169730465	0.35877009	536.4049983	0.002609627	0.018645853	0.01715418	0.14045454	0.02039903	
1	Terminal Apron	Excavatio	Dump Truck (12 cy)	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Excavatio	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Excavatio	Roller	Diesel	100	0.59	0.576380092	0.52257071	595.7156085	0.002932009	0.039645797	0.03647413	0.14561666	0.03306208	
1	Terminal Apron	Excavatio	Dozer	Diesel	175	0.59	0.169730465	0.35877009	536.4049983	0.002609627	0.018645853	0.01715418	0.14045454	0.02039903	
1	Terminal Apron	Excavatio	Dump Truck (12 cy)	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Excavatio	Excavator	Diesel	175	0.59	0.153131107	0.31874802	536.4074308	0.002597047	0.013731856	0.01263331	0.13965534	0.00946411	
1	Terminal Apron	Excavatio	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Excavatio	Roller	Diesel	100	0.59	0.576380092	0.52257071	595.7156085	0.002932009	0.039645797	0.03647413	0.14561666	0.03306208	
1	Terminal Apron	Excavatio	Scraper	Diesel	600	0.59	0.257415267	0.64839732	536.397567	0.002675807	0.031525385	0.02900335	0.14290506	0.23094798	
1	Terminal Apron	Excavatio	Dozer	Diesel	175	0.59	0.169730465	0.35877009	536.4049983	0.002609627	0.018645853	0.01715418	0.14045454	0.02039903	
1	Terminal Apron	Fencing	Concrete Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Fencing	Dump Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Fencing	Other General Equipment	Diesel	175	0.43	0.186099139	0.64289491	530.5925645	0.002661896	0.036382906	0.03347227	0.14854068	0.06313579	
1	Terminal Apron	Fencing	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Fencing	Skid Steer Loader	Diesel	75	0.21	2.975276639	3.99989969	694.3577606	0.00395038	0.398422558	0.36654875	0.54163604	0.27493297	
1	Terminal Apron	Fencing	Tractors/Loader/Backhoe	Diesel	100	0.21	2.605918751	1.84283179	694.8451113	0.003759492	0.322274533	0.29649257	0.38072006	0.37738447	
1	Terminal Apron	Grading	Dozer	Diesel	175	0.59	0.169730465	0.35877009	536.4049983	0.002609627	0.018645853	0.01715418	0.14045454	0.02039903	
1	Terminal Apron	Grading	Grader	Diesel	300	0.59	0.132690296	0.34122323	536.4068713	0.0025998	0.013203475	0.0121472	0.13982398	0.01892163	
1	Terminal Apron	Grading	Roller	Diesel	100	0.59	0.576380092	0.52257071	595.7156085	0.002932009	0.039645797	0.03647413	0.14561666	0.03306208	
1	Terminal Apron	Hydrosee	Hydroseeder	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Hydrosee	Off-Road Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Lighting	Dump Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Lighting	Loader	Diesel	175	0.59	0.209444933	0.47498165	536.3950309	0.002639742	0.02982934	0.02744299	0.14374596	0.04580763	
1	Terminal Apron	Lighting	Other General Equipment	Diesel	175	0.43	0.186099139	0.64289491	530.5925645	0.002661896	0.036382906	0.03347227	0.14854068	0.06313579	
1	Terminal Apron	Lighting	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Lighting	Skid Steer Loader	Diesel	75	0.21	2.975276639	3.99989969	694.3577606	0.00395038	0.398422558	0.36654875	0.54163604	0.27493297	
1	Terminal Apron	Lighting	Tractors/Loader/Backhoe	Diesel	100	0.21	2.605918751	1.84283179	694.8451113	0.003759492	0.322274533	0.29649257	0.38072006	0.37738447	
1	Terminal Apron	Markings	Flatbed Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Markings	Other General Equipment	Diesel	175	0.43	0.186099139	0.64289491	530.5925645	0.002661896	0.036382906	0.03347227	0.14854068	0.06313579	
1	Terminal Apron	Markings	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Sealing/F	Distributing Tanker	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Sealing/F	Other General Equipment	Diesel	175	0.43	0.186099139	0.64289491	530.5925645	0.002661896	0.036382906	0.03347227	0.14854068	0.06313579	
1	Terminal Apron	Sealing/F	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Soil Erosic	Other General Equipment	Diesel	175	0.43	0.186099139	0.64289491	530.5925645	0.002661896	0.036382906	0.03347227	0.14854068	0.06313579	
1	Terminal Apron	Soil Erosic	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Soil Erosic	Pumps	Diesel	11	0.43	4.448713964	4.38791279	588.5477534	0.003967463	0.364932644	0.33573803	0.60111211	0.0036461	
1	Terminal Apron	Soil Erosic	Tractors/Loader/Backhoe	Diesel	100	0.21	2.605918751	1.84283179	694.8451113	0.003759492	0.322274533	0.29649257	0.38072006	0.37738447	
1	Terminal Apron	Subbase F	Dozer	Diesel	175	0.59	0.169730465	0.35877009	536.4049983	0.002609627	0.018645853	0.01715418	0.14045454	0.02039903	
1	Terminal Apron	Subbase F	Dump Truck (12 cy)	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Subbase F	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Subbase F	Roller	Diesel	100	0.59	0.576380092	0.52257071	595.7156085	0.002932009	0.039645797	0.03647413	0.14561666	0.03306208	
1	Terminal Apron	Topsoil Pl	Dozer	Diesel	175	0.59	0.169730465	0.35877009	536.4049983	0.002609627	0.018645853	0.01715418	0.14045454	0.02039903	
1	Terminal Apron	Topsoil Pl	Dump Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
1	Terminal Apron	Topsoil Pl	Pickup Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Concrete I	Backhoe	Diesel	100	0.21	2.605918751	1.84283179	694.8451113	0.003759492	0.322274533	0.29649257	0.38072006	0.37738447	
2	Building - 10000 sqft- 1 stor	Concrete I	Concrete Ready Mix Trucks	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Concrete I	Fork Truck	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
2	Building - 10000 sqft- 1 stor	Concrete I	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Concrete I	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Exterior W	Fork Truck	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
2	Building - 10000 sqft- 1 stor	Exterior W	Man Lift	Diesel	75	0.21	2.768811586	4.03110501	694.4379634	0.003950001	0.339479843	0.31232146	0.51515991	0.10829837	
2	Building - 10000 sqft- 1 stor	Exterior W	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Interior Bu	Fork Truck	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
2	Building - 10000 sqft- 1 stor	Interior Bu	Man Lift	Diesel	75	0.21	2.768811586	4.03110501	694.4379634	0.003950001	0.339479843	0.31232146	0.51515991	0.10829837	
2	Building - 10000 sqft- 1 stor	Interior Bu	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Roofing	High Lift	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
2	Building - 10000 sqft- 1 stor	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	2.768811586	4.03110501	694.4379634	0.003950001	0.339479843	0.31232146	0.51515991	0.10829837	
2	Building - 10000 sqft- 1 stor	Roofing	Material Deliveries	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Security &	High Lift	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
2	Building - 10000 sqft- 1 stor	Security &	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Structural	40 Ton Crane	Diesel	300	0.43	0.110799386	0.48905904	530.6104587	0.00260629	0.017743869	0.01632436	0.14264417	0.06433351	
2	Building - 10000 sqft- 1 stor	Structural	Fork Truck	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
2	Building - 10000 sqft- 1 stor	Structural	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
2	Building - 10000 sqft- 1 stor	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Concrete I	Backhoe	Diesel	100	0.21	2.605918751	1.84283179	694.8451113	0.003759492	0.322274533	0.29649257	0.38072006	0.37738447	
3	Building - 10000 sqft- 1 stor	Concrete I	Concrete Ready Mix Trucks	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Concrete I	Fork Truck	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
3	Building - 10000 sqft- 1 stor	Concrete I	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Concrete I	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Exterior W	Fork Truck	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
3	Building - 10000 sqft- 1 stor	Exterior W	Man Lift	Diesel	75	0.21	2.768811586	4.03110501	694.4379634	0.003950001	0.339479843	0.31232146	0.51515991	0.10829837	
3	Building - 10000 sqft- 1 stor	Exterior W	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Interior Bu	Fork Truck	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
3	Building - 10000 sqft- 1 stor	Interior Bu	Man Lift	Diesel	75	0.21	2.768811586	4.03110501	694.4379634	0.003950001	0.339479843	0.31232146	0.51515991	0.10829837	
3	Building - 10000 sqft- 1 stor	Interior Bu	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Roofing	High Lift	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
3	Building - 10000 sqft- 1 stor	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	2.768811586	4.03110501	694.4379634	0.003950001	0.339479843	0.31232146	0.51515991	0.10829837	
3	Building - 10000 sqft- 1 stor	Roofing	Material Deliveries	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Security &	High Lift	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
3	Building - 10000 sqft- 1 stor	Security &	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Structural	40 Ton Crane	Diesel	300	0.43	0.110799386	0.48905904	530.6104587	0.00260629	0.017743869	0.01632436	0.14264417	0.06433351	
3	Building - 10000 sqft- 1 stor	Structural	Fork Truck	Diesel	100	0.59	0.395030594	0.28144322	595.7348679	0.002875088	0.010434455	0.0095997	0.13927167	0	
3	Building - 10000 sqft- 1 stor	Structural	Tool Truck	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	
3	Building - 10000 sqft- 1 stor	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.14660685	0.31274046	536.4086081	0.002592317	0.011338115	0.01043107	0.13928105	0.01685004	

Emission Factors: On-Road (from MOVES)

Scen	Project Type	Equipmen	Fuel Type	Roadway Type	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi)	PM2.5(g/mi)	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/veh-	RV NOx(g/ve	RV CO2(g/ve	RV SO2(g/ve	RV PM10(g/v	RV PM2.5(g/	RV VOC(g/ve	RP VOC(g/veh-day)
1	Terminal Apron	Asphalt 18	Diesel	Urban Unrestricted Access	0.727125587	2.307440977	2511.383395	0.01737699	0.098290828	0.095345386	0.149607109	0.07087091	0.00346374	22.526313	0.39364696	295.894032	0.00212704	0.0218591	0.02120417	6.36742009	0
1	Terminal Apron	Dump Tru	Diesel	Urban Unrestricted Access	0.531574677	1.192636333	1376.849273	0.00949199	0.035603011	0.034536148	0.108605354	0.07097875	0.00346381	23.2623062	0.14441227	281.712134	0.00198349	0.01200601	0.01164629	0.5969482	0
1	Terminal Apron	Dump Tru	Diesel	Urban Unrestricted Access	0.531574677	1.192636333	1376.849273	0.00949199	0.035603011	0.034536148	0.108605354	0.07097875	0.00346381	23.2623062	0.14441227	281.712134	0.00198349	0.01200601	0.01164629	0.5969482	0
1	Terminal Apron	Passenge	Gasoline	Urban Unrestricted Access	2.018648343	0.091702494	357.7023305	0.00501758	0.004169107	0.003838976	0.049760487	0.00462543	0.00167019	24.9820783	1.53892518	283.182707	0.00397227	0.03168735	0.02917806	5.00519007	0.80790666
2	Building - 10000 sqft- 1 stor	Cement M	Diesel	Urban Unrestricted Access	0.531574677	1.192636333	1376.849273	0.00949199	0.035603011	0.034536148	0.108605354	0.07097875	0.00346381	23.2623062	0.14441227	281.712134	0.00198349	0.01200601	0.01164629	0.5969482	0
2	Building - 10000 sqft- 1 stor	Dump Tru	Diesel	Urban Unrestricted Access	0.531574677	1.192636333	1376.849273	0.00949199	0.035603011	0.034536148	0.108605354	0.07097875	0.00346381	23.2623062	0.14441227	281.712134	0.00198349	0.01200601	0.01164629	0.5969482	0
2	Building - 10000 sqft- 1 stor	Passenge	Gasoline	Urban Unrestricted Access	2.018648343	0.091702494	357.7023305	0.00501758	0.004169107	0.003838976	0.049760487	0.00462543	0.00167019	24.9820783	1.53892518	283.182707	0.00397227	0.03168735	0.02917806	5.00519007	0.80790666
2	Building - 10000 sqft- 1 stor	Tractor Tr	Diesel	Urban Unrestricted Access	0.727125587	2.307440977	2511.383395	0.01737699	0.098290828	0.095345386	0.149607109	0.07087091	0.00346374	22.526313	0.39364696	295.894032	0.00212704	0.0218591	0.02120417	6.36742009	0
3	Building - 10000 sqft- 1 stor	Cement M	Diesel	Urban Unrestricted Access	0.531574677	1.192636333	1376.849273	0.00949199	0.035603011	0.034536148	0.108605354	0.07097875	0.00346381	23.2623062	0.14441227	281.712134	0.00198349	0.01200601	0.01164629	0.5969482	0
3	Building - 10000 sqft- 1 stor	Dump Tru	Diesel	Urban Unrestricted Access	0.531574677	1.192636333	1376.849273	0.00949199	0.035603011	0.034536148	0.108605354	0.07097875	0.00346381	23.2623062	0.14441227	281.712134	0.00198349	0.01200601	0.01164629	0.5969482	0
3	Building - 10000 sqft- 1 stor	Passenge	Gasoline	Urban Unrestricted Access	2.018648343	0.091702494	357.7023305	0.00501758	0.004169107	0.003838976	0.049760487	0.00462543	0.00167019	24.9820783	1.53892518	283.182707	0.00397227	0.03168735	0.02917806	5.00519007	0.80790666
3	Building - 10000 sqft- 1 stor	Tractor Tr	Diesel	Urban Unrestricted Access	0.727125587	2.307440977	2511.383395	0.01737699	0.098290828	0.095345386	0.149607109	0.07087091	0.00346374	22.526313	0.39364696	295.894032	0.00212704	0.0218591	0.02120417	6.36742009	0

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scen	Project	Fugitive T	Variable	Default Values	Units	User Value
1	Terminal Apron	Asphalt D	A = Area of land affected = L x W x 0.092	9522.3	m2	
1	Terminal Apron	Asphalt D	AR = Application rate of liquefied asphalt	1.811	l/m2	
1	Terminal Apron	Asphalt D	VD = Volume fraction of diluent in liquefie	0.35	fraction	
1	Terminal Apron	Asphalt D	EF = Mass fraction of diluent which evapo	0.7	fraction	
1	Terminal Apron	Asphalt D	D = Density of solvent utilized	1.8	lbs/l	
1	Terminal Apron	Asphalt D	VOC = A x AR x VD x EF x D	7605	lbs	
1	Terminal Apron	Asphalt St	T = Mass of asphalt loaded = L x W x 0.16	1238.8	tons	
1	Terminal Apron	Asphalt St	PM10 = (0.027 + 0.00042) x T	34	lbs	
1	Terminal Apron	Asphalt St	CO = (0.4 + 0.0004) x T	496	lbs	
1	Terminal Apron	Asphalt St	NOx = (0.025) x T	31	lbs	
1	Terminal Apron	Asphalt St	SOx = (0.0046) x T	5.698	lbs	
1	Terminal Apron	Asphalt St	VOC = (0.0082 + 0.0042) x T	15.4	lbs	
1	Terminal Apron	Material N	s = Surface material silt content	0.043	fraction	
1	Terminal Apron	Material N	Wt. = Mean vehicle weight	32	tons	
1	Terminal Apron	Material N	VMT = Vehicle miles traveled	1983.9	miles	
1	Terminal Apron	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.4	54.3	lbs	
1	Terminal Apron	Material N	sL = Road surface silt loading	0.1	g/m3	
1	Terminal Apron	Material N	Wt. = Mean vehicle weight	32	tons	
1	Terminal Apron	Material N	VMT = Vehicle miles traveled	1625	miles	
1	Terminal Apron	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x	15.1	lbs	
1	Terminal Apron	Unstabiliz	A = Area affected = L x W / 43560.0	2.353	acres	
1	Terminal Apron	Unstabiliz	TPConv = TSP/PM10 conversion	0.5	fraction	
1	Terminal Apron	Unstabiliz	CE = Control efficiency	0.63	fraction	
1	Terminal Apron	Unstabiliz	t = year (e.g. 0.65 year)	0.25	years	
1	Terminal Apron	Unstabiliz	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2(	0	lbs	
1	Terminal Apron	Soil Handl	u = Wind speed	5	mph	
1	Terminal Apron	Soil Handl	m = Moisture content	0.25	fraction	
1	Terminal Apron	Soil Handl	T = Mass of aggregate storage pile = L x V	2818.8	tons	
1	Terminal Apron	Soil Handl	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] / [	58	lbs	
2	Building - 10000 sqft- 1 stor	Concrete I	V = Volume of asphalt = 0.111 x L x W x 1	462.5	yd3	
2	Building - 10000 sqft- 1 stor	Concrete I	PM10 = 0.037 x V	17.1	lbs	
2	Building - 10000 sqft- 1 stor	Material N	sL = Road surface silt loading	0.1	g/m3	
2	Building - 10000 sqft- 1 stor	Material N	Wt. = Mean vehicle weight	32	tons	
2	Building - 10000 sqft- 1 stor	Material N	VMT = Vehicle miles traveled	430	miles	
2	Building - 10000 sqft- 1 stor	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x	3.992	lbs	
2	Building - 10000 sqft- 1 stor	Material N	s = Surface material silt content	0.043	fraction	
2	Building - 10000 sqft- 1 stor	Material N	Wt. = Mean vehicle weight	32	tons	
2	Building - 10000 sqft- 1 stor	Material N	VMT = Vehicle miles traveled	430	miles	
2	Building - 10000 sqft- 1 stor	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.4	11.8	lbs	
3	Building - 10000 sqft- 1 stor	Concrete I	V = Volume of asphalt = 0.111 x L x W x 1	462.5	yd3	
3	Building - 10000 sqft- 1 stor	Concrete I	PM10 = 0.037 x V	17.1	lbs	
3	Building - 10000 sqft- 1 stor	Material N	sL = Road surface silt loading	0.1	g/m3	
3	Building - 10000 sqft- 1 stor	Material N	Wt. = Mean vehicle weight	32	tons	
3	Building - 10000 sqft- 1 stor	Material N	VMT = Vehicle miles traveled	430	miles	
3	Building - 10000 sqft- 1 stor	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x	3.992	lbs	
3	Building - 10000 sqft- 1 stor	Material N	s = Surface material silt content	0.043	fraction	
3	Building - 10000 sqft- 1 stor	Material N	Wt. = Mean vehicle weight	32	tons	
3	Building - 10000 sqft- 1 stor	Material N	VMT = Vehicle miles traveled	430	miles	
3	Building - 10000 sqft- 1 stor	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.4	11.8	lbs	

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ASSUMPTIONS

Emission factors were developed from the following models:

- On-Road Vehicles: MOVES 2010b, revised January 2013
- Non-Road Equipment: NONROAD2008a, July 2009

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO_2, CH_4, and N_2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)
- Excavator
- Excavator for U/G Services/Tanks
- Flat Bed or Dump Trucks
- Flatbed Truck
- Grader
- Grout Wheel Truck
- Hoist Equipment with 40 Ton Rig
- Hydralic Hammer
- Hydroseeder
- Line Painting Truck and Sprayer
- Material Deliveries
- Off-Road Truck
- Pickup Truck
- Scraper
- Seed Truck Spreader
- Small Dozer
- Survey Crew Trucks
- Ten Wheelers
- Ten Wheelers- Material Delivery
- Tool Truck
- Tractor Trailer- Equipment Delivery
- Tractor Trailer- Material Delivery
- Tractor Trailer- Steel Deliveries
- Tractor Trailer- Stone Delivery
- Tractor Trailer- Topsoil & Seed
- Tractor Trailer- Truck Delivery
- Tractor Trailer with Boom Hoist- Curbs Del & Place
- Tractor Trailer with Boom Hoist- Delivery
- Tractor Trailers- Rebar Deliveries
- Tractor Trailers Temp Fac.
- Truck for Topsoil & Seed Del&Spread
- Water Truck
- Excavator with Bucket
- Excavator with Hoe Ram

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Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/16/2026 9:10:44 AM

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STUDY

Study Name

DFW Terminal SEA

Study Description

Construction 2026

2026 DFW CTA Supplemental EA Construction Emissions

Non-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

											TEXN2.6 NONROAD Emission Factors (g/hp-hr)						TEXN2.6 Nonroad Emissions (Tons Per Year)					
Scenario ID	Year	Project	Construction Activity	Equipment	TEXN2.6 Equipment	TEXN2.6 Lookup	Fuel	HP Average	Load Factor	Hours of Activity	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2026	Terminal Apron	Asphalt Placement	Asphalt Paver	Pavers	Pavers175	Diesel	175	0.59	56.8875	0.61316	1.59499	0.00159	0.10397	0.10085	0.12488	0.00397	0.01033	0.00001	0.00067	0.00065	0.00081
1	2026	Terminal Apron	Asphalt Placement	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	204.884637	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.01231	0.03157	0.00010	0.00214	0.00208	0.00184
1	2026	Terminal Apron	Asphalt Placement	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	113.775	0.42046	1.12301	0.00157	0.09901	0.09604	0.07556	0.00397	0.01060	0.00001	0.00093	0.00091	0.00071
1	2026	Terminal Apron	Asphalt Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	56.8875	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00342	0.00877	0.00003	0.00060	0.00058	0.00051
1	2026	Terminal Apron	Asphalt Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	56.8875	1.28050	1.94534	0.00193	0.20156	0.19552	0.14775	0.00474	0.00720	0.00001	0.00075	0.00072	0.00055
1	2026	Terminal Apron	Asphalt Placement	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	56.8875	0.15372	2.06478	0.00188	0.01487	0.01443	0.04103	0.00015	0.00204	0.00000	0.00001	0.00001	0.00004
1	2026	Terminal Apron	Asphalt Placement	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	Diesel	25	0.59	72.816	1.26745	3.16706	0.00233	0.14459	0.14025	0.29969	0.00150	0.00375	0.00000	0.00017	0.00017	0.00035
1	2026	Terminal Apron	Clearing and Grubbing	Chain Saw	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.7	124.8	1.76685	2.98896	0.00198	0.17182	0.16667	0.59537	0.00187	0.00317	0.00000	0.00018	0.00018	0.00063
1	2026	Terminal Apron	Clearing and Grubbing	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	124.8	1.12080	1.69165	0.00187	0.17816	0.17282	0.10900	0.00663	0.01001	0.00001	0.00105	0.00102	0.00064
1	2026	Terminal Apron	Clearing and Grubbing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	166.4	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.01000	0.02564	0.00008	0.00174	0.00169	0.00150
1	2026	Terminal Apron	Drainage - 24 inch SICPP	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	131.52	0.17104	0.47549	0.00138	0.04030	0.03909	0.03011	0.00256	0.00712	0.00002	0.00060	0.00059	0.00045
1	2026	Terminal Apron	Drainage - 24 inch SICPP	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	131.52	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00790	0.02027	0.00006	0.00138	0.00133	0.00118
1	2026	Terminal Apron	Drainage - 24 inch SICPP	Excavator	Excavators	Excavators175	Diesel	175	0.59	131.52	0.14434	0.42128	0.00144	0.03522	0.03416	0.02413	0.00216	0.00631	0.00002	0.00053	0.00051	0.00036
1	2026	Terminal Apron	Drainage - 24 inch SICPP	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	131.52	0.76153	1.36412	0.00137	0.13584	0.13177	0.20543	0.01140	0.02042	0.00002	0.00203	0.00197	0.00308
1	2026	Terminal Apron	Drainage - 24 inch SICPP	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	131.52	0.42046	1.12301	0.00157	0.09901	0.09604	0.07556	0.00459	0.01225	0.00002	0.00108	0.00105	0.00082
1	2026	Terminal Apron	Drainage - 24 inch SICPP	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	131.52	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00790	0.02027	0.00006	0.00138	0.00133	0.00118
1	2026	Terminal Apron	Drainage - 24 inch SICPP	Roller	Rollers	Rollers100	Diesel	100	0.59	131.52	1.28050	1.94534	0.00193	0.20156	0.19552	0.14775	0.01095	0.01664	0.00002	0.00172	0.00167	0.00126
1	2026	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	73.06666667	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00439	0.01126	0.00004	0.00076	0.00074	0.00066
1	2026	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	73.06666667	0.76153	1.36412	0.00137	0.13584	0.13177	0.20543	0.00633	0.01134	0.00001	0.00113	0.00110	0.00171
1	2026	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	73.06666667	0.42046	1.12301	0.00157	0.09901	0.09604	0.07556	0.00255	0.00681	0.00001	0.00060	0.00058	0.00046
1	2026	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	73.06666667	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00439	0.01126	0.00004	0.00076	0.00074	0.00066
1	2026	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	73.06666667	0.82457	1.25844	0.00204	0.12070	0.11708	0.12266	0.00139	0.00213	0.00000	0.00020	0.00020	0.00021
1	2026	Terminal Apron	Dust Control	Water Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	2880	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.17307	0.44381	0.00140	0.03013	0.02922	0.02589
1	2026	Terminal Apron	Excavation (Borrow)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	252.8333333	0.17104	0.47549	0.00138	0.04030	0.03909	0.03011	0.00492	0.01368	0.00004	0.00116	0.00112	0.00087
1	2026	Terminal Apron	Excavation (Borrow)	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	252.8333333	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.01519	0.03896	0.00012	0.00264	0.00257	0.00227
1	2026	Terminal Apron	Excavation (Borrow)	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	252.8333333	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.01519	0.03896	0.00012	0.00264	0.00257	0.00227
1	2026	Terminal Apron	Excavation (Borrow)	Roller	Rollers	Rollers100	Diesel	100	0.59	116.6923077	1.28050	1.94534	0.00193	0.20156	0.19552	0.14775	0.00972	0.01476	0.00001	0.00153	0.00148	0.00112
1	2026	Terminal Apron	Excavation (Cut to Fill)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	189.625	0.17104	0.47549	0.00138	0.04030	0.03909	0.03011	0.00369	0.01026	0.00003	0.00087	0.00084	0.00065
1	2026	Terminal Apron	Excavation (Cut to Fill)	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	505.6666667	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.03039	0.07792	0.00025	0.00529	0.00513	0.00455
1	2026	Terminal Apron	Excavation (Cut to Fill)	Excavator	Excavators	Excavators175	Diesel	175	0.59	151.7	0.14434	0.42128	0.00144	0.03522	0.03416	0.02413	0.00249	0.00727	0.00002	0.00061	0.00059	0.00042
1	2026	Terminal Apron	Excavation (Cut to Fill)	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	151.7	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00912	0.02338	0.00007	0.00159	0.00154	0.00136
1	2026	Terminal Apron	Excavation (Cut to Fill)	Roller	Rollers	Rollers100	Diesel	100	0.59	151.7	1.28050	1.94534	0.00193	0.20156	0.19552	0.14775	0.01263	0.01919	0.00002	0.00199	0.00193	0.00146
1	2026	Terminal Apron	Excavation (Cut to Fill)	Scraper	Scrapers	Scrapers600	Diesel	600	0.59	189.625	0.33858	0.80766	0.00136	0.05295	0.05136	0.04762	0.02505	0.05976	0.00010	0.00392	0.00380	0.00352
1	2026	Terminal Apron	Excavation (Topsoil Stripping)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	71.38823529	0.17104	0.47549	0.00138	0.04030	0.03909	0.03011	0.00139	0.00386	0.00001	0.00033	0.00032	0.00024
1	2026	Terminal Apron	Fencing	Concrete Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	45.55555556	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00274	0.00702	0.00002	0.00048	0.00046	0.00041
1	2026	Terminal Apron	Fencing	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	182.2222222	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.01095	0.02808	0.00009	0.00191	0.00185	0.00164
1	2026	Terminal Apron	Fencing	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	182.2222222	0.42046	1.12301	0.00157	0.09901	0.09604	0.07556	0.00636	0.01697	0.00002	0.00150	0.00145	0.00114
1	2026	Terminal Apron	Fencing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	182.2222222	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.01095	0.02808	0.00009	0.00191	0.00185	0.00164
1	2026	Terminal Apron	Fencing	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	182.2222222	0.15372	2.06478	0.00188	0.01487	0.01443	0.04103	0.00049	0.00653	0.00001	0.00005	0.00005	0.00013
1	2026	Terminal Apron	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	182.2222222	0.82457	1.25844	0.00204	0.12070	0.11708	0.12266	0.00348	0.00531	0.00001	0.00051	0.00049	0.00052
1	2026	Terminal Apron	Grading	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	50.1831	0.17104	0.47549	0.00138	0.04030	0.03909	0.03011	0.00098	0.00272	0.00001	0.00023	0.00022	0.00017
1	2026	Terminal Apron	Grading	Grader	Graders	Graders300	Diesel	300	0.59	50.1831	0.33890	0.99701	0.00139	0.05433	0.05270	0.08062	0.00332	0.00976	0.00001	0.00053	0.00052	0.00079
1	2026	Terminal Apron	Grading	Roller	Rollers	Rollers100	Diesel	100	0.59	50.1831	1.28050	1.94534	0.00193	0.20156	0.19552	0.14775	0.00418	0.00635	0.00001	0.00066	0.00064	0.00048

3	2026	Building - 30000 sqft - 3 stories	Structural Steel Frame	Trowel Machine	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	12	0.75778	1.60654	0.00155	0.11219	0.10882	0.10613	0.00355	0.00752	0.00001	0.00053	0.00051	0.00050
4	2026	Demolition - Concrete	Concrete Demolition	Excavator with Bucket	Excavators	Excavators175	Diesel	175	0.59	7.6	0.14434	0.42128	0.00144	0.03522	0.03416	0.02413	0.00012	0.00036	0.00000	0.00003	0.00003	0.00002
4	2026	Demolition - Concrete	Concrete Demolition	Excavator with Hoe Ram	Excavators	Excavators175	Diesel	175	0.59	7.6	0.14434	0.42128	0.00144	0.03522	0.03416	0.02413	0.00012	0.00036	0.00000	0.00003	0.00003	0.00002
4	2026	Demolition - Concrete	Concrete Demolition	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	15.2	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00091	0.00234	0.00001	0.00016	0.00015	0.00014
5	2026	Building - 100000 sqft - 10 stories	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	480	0.82457	1.25844	0.00204	0.12070	0.11708	0.12266	0.00916	0.01398	0.00002	0.00134	0.00130	0.00136
5	2026	Building - 100000 sqft - 10 stories	Concrete Foundations	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	180	1.76685	2.98896	0.00198	0.17182	0.16667	0.59537	0.00166	0.00281	0.00000	0.00016	0.00016	0.00056
5	2026	Building - 100000 sqft - 10 stories	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	360	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.02163	0.05548	0.00017	0.00377	0.00365	0.00324
5	2026	Building - 100000 sqft - 10 stories	Concrete Foundations	Excavator	Excavators	Excavators175	Diesel	175	0.59	160	0.14434	0.42128	0.00144	0.03522	0.03416	0.02413	0.00263	0.00767	0.00003	0.00064	0.00062	0.00044
5	2026	Building - 100000 sqft - 10 stories	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	480	1.12080	1.69165	0.00187	0.17816	0.17282	0.10900	0.03499	0.05281	0.00006	0.00556	0.00539	0.00340
5	2026	Building - 100000 sqft - 10 stories	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00721	0.01849	0.00006	0.00126	0.00122	0.00108
5	2026	Building - 100000 sqft - 10 stories	Concrete Foundations	Tractor Trailer - Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	240	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.01442	0.03698	0.00012	0.00251	0.00244	0.00216
5	2026	Building - 100000 sqft - 10 stories	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00060	0.00154	0.00000	0.00010	0.00010	0.00009
5	2026	Building - 100000 sqft - 10 stories	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00024	0.00062	0.00000	0.00004	0.00004	0.00004
5	2026	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	840	1.12080	1.69165	0.00187	0.17816	0.17282	0.10900	0.06123	0.09242	0.00010	0.00973	0.00944	0.00595
5	2026	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Generator	Other Construction Equipment	Other Construction Equipment40	Diesel	40	0.43	80	0.31380	2.22168	0.00173	0.03297	0.03198	0.09415	0.00048	0.00337	0.00000	0.00005	0.00005	0.00014
5	2026	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	420	0.75778	1.60654	0.00155	0.11219	0.10882	0.10613	0.12419	0.26330	0.00025	0.01839	0.01784	0.01739
5	2026	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Grout Wheel Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	160	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.00961	0.02466	0.00008	0.00167	0.00162	0.00144
5	2026	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	1680	0.50153	2.30892	0.00177	0.05787	0.05613	0.08231	0.01463	0.06734	0.00005	0.00169	0.00164	0.00240
5	2026	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	420	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.02524	0.06472	0.00020	0.00439	0.00426	0.00378
5	2026	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Tractor Trailer - Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	840	0.15400	0.39491	0.00125	0.02681	0.02600	0.02304	0.05048	0.12944	0.00041	0.00879	0.00852	0.00755
5	2026	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	Diesel	300	0.43	80	0.06781	0.21465	0.00148	0.01562	0.01515	0.01561	0.00077	0.00244	0.00002	0.00018	0.00017	0.00018
																TOTAL (Tons Per Year)	5.680	12.956	0.029	0.945	0.917	0.776

On-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Equipment	Equipment Category	MOVES5 Onroad Lookup	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Distance for fugitive PM	Number of Vehicles	Number of Employees Or $M*11	Number of Project Days	Project Length	Project Width	Project Area	Building Height (Building	Open Space Height (Building	Number of Trees	Activity Rate	VMT	EF CO	EF NOx	EF SO_2	EF PM_{10}	EF $PM_{2.5}$	EF VOC	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2026	Terminal Apron	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	4100	100	--	--	--	--	--	5,949	2.90722	4.40947	0.00586	0.46583	0.17107	0.07809	0.01906	0.02892	0.00004	0.00305	0.00112	0.00051
1	2026	Terminal Apron	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	4100	100	--	--	--	--	--	8,428	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00881	0.01070	0.00002	0.00112	0.00040	0.00031
1	2026	Terminal Apron	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	258	4100	100	--	--	--	--	--	50,567	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.05284	0.06420	0.00015	0.00674	0.00241	0.00184
1	2026	Terminal Apron	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	458.183	458.183	258	--	--	--	--	--	--	--	438,600	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	1.06912	0.01491	0.00119	0.01359	0.00366	0.01758
2	2026	Site Work - 10000 sqft	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	215	--	--	10000	--	--	--	--	2,313	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00242	0.00294	0.00001	0.00031	0.00011	0.00008
2	2026	Site Work - 10000 sqft	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	215	--	--	10000	--	--	--	--	1,233	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00129	0.00157	0.00000	0.00016	0.00006	0.00004
2	2026	Site Work - 10000 sqft	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	0.308	0.308	215	--	--	--	--	--	--	--	1,987	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	0.00484	0.00007	0.00001	0.00006	0.00002	0.00008
2	2026	Site Work - 10000 sqft	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	215	--	--	10000	--	--	--	0.008	800	2.90722	4.40947	0.00586	0.46583	0.17107	0.07809	0.00256	0.00389	0.00001	0.00041	0.00015	0.00007
3	2026	Building - 10000 sqft - 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	86	--	--	10000	--	--	--	--	2,313	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00242	0.00294	0.00001	0.00031	0.00011	0.00008
3	2026	Building - 10000 sqft - 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	86	--	--	10000	--	--	--	--	1,233	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00129	0.00157	0.00000	0.00016	0.00006	0.00004
3	2026	Building - 10000 sqft - 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	1.067	1.067	86	--	--	--	--	--	--	--	2,753	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	0.00671	0.00009	0.00001	0.00009	0.00002	0.00011
3	2026	Building - 10000 sqft - 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	86	--	--	10000	--	--	--	0.0016	160	2.90722	4.40947	0.00586	0.46583	0.17107	0.07809	0.00051	0.00078	0.00000	0.00008	0.00003	0.00001
4	2026	Building - 10000 sqft - 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	193	--	--	10000	--	--	--	--	2,313	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00242	0.00294	0.00001	0.00031	0.00011	0.00008
4	2026	Building - 10000 sqft - 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	193	--	--	10000	--	--	--	--	1,233	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00129	0.00157	0.00000	0.00016	0.00006	0.00004
4	2026	Building - 10000 sqft - 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	131.01	131.01	193	--	--	--	--	--	--	--	241,875	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	0.58959	0.00822	0.00066	0.00749	0.00202	0.00969
4	2026	Building - 10000 sqft - 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	193	--	--	10000	--	--	--	0.0016	160	2.90722	4.40947	0.00586	0.46583	0.17107	0.07809	0.00051	0.00078	0.00000	0.00008	0.00003	0.00001
5	2026	Building - 30000 sqft - 3 stories	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	236	--	--	30000	--	--	--	--	6,938	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00725	0.00881	0.00002	0.00093	0.00033	0.00025
5	2026	Building - 30000 sqft - 3 stories	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	236	--	--	30000	--	--	--	--	3,700	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00387	0.00470	0.00001	0.00049	0.00018	0.00013
5	2026	Building - 30000 sqft - 3 stories	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	0.462	0.462	236	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	2026	Building - 30000 sqft - 3 stories	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	236	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	2026	Parking Structure - 240000 sqft - G+2 stori	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	5	--	172	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	2026	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	172	1556	100	--	--	--	--	--	3,198	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00334	0.00406	0.00001	0.00043	0.00015	0.00012
1	2026	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	172	1556	100	--	--	--	--	--	19,191	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.02005	0.02437	0.00006	0.00256	0.00091	0.00070
1	2026	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	150.524	150.524	172	--	--	--	--	--	--	--	776,704	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	1.89327	0.02641	0.00211	0.02406	0.00649	0.03113
2	2026	Taxiways	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	193	1654	100	--	--	--	--	--	2,400	2.90722	4.40947	0.00586	0.46583	0.17107	0.07809	0.00769	0.01167	0.00002	0.00123	0.00045	0.00021
2	2026	Taxiways	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	193	1654	100	--	--	--	--	--	38,249	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.03997	0.04856	0.00011	0.00510	0.00182	0.00139
2	2026	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	193	1654	100	--	--	--	--	--	3,400	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00355	0.00432	0.00001	0.00045	0.00016	0.00012
2	2026	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	193	1654	100	--	--	--	--	--	20,399	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.02132	0.02590	0.00006	0.00272	0.00097	0.00074
2	2026	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	73	73	193	--	--	--	--	--	--	--	422,670	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	1.03029	0.01437	0.00115	0.01309	0.00353	0.01694
3	2026	Building - 30000 sqft - 3 stories	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	30000	--	--	--	--	6,938	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00725	0.00881	0.00002	0.00093	0.00033	0.00025
3	2026	Building - 30000 sqft - 3 stories	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	30000	--	--	--	--	3,700	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00387	0.00470	0.00001	0.00049	0.00018	0.00013
3	2026	Building - 30000 sqft - 3 stories	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	2734.6	2734.6	258	--	--	--	--	--	--	--	280,575	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	0.68392	0.00954	0.00076	0.00869	0.00234	0.01125
3	2026	Building - 30000 sqft - 3 stories	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	30000	--	--	--	0.00053	159	2.90722	4.40947	0.00586	0.46583	0.17107	0.07809	0.00051	0.00077	0.00000	0.00008	0.00003	0.00001
4	2026	Demolition - Concrete	Dump Truck	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	86	57	100	--	--	--	--	--	352	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.00037	0.00045	0.00000	0.00005	0.00002	0.00001
4	2026	Demolition - Concrete	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	80.696	80.696	86	--	--	--	--	--	--	--	208,196	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	0.50749	0.00708	0.00057	0.00645	0.00174	0.00834
5	2026	Building - 100000 sqft - 10 stories	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	4	--	86	--	--	100000	--	--	--	--	23,125	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.02416	0.02936	0.00007	0.00308	0.00110	0.00084
5	2026	Building - 100000 sqft - 10 stories	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	86	--	--	100000	--	--	--	--	12,333	0.94792	1.15178	0.00269	0.12100	0.04322	0.03297	0.01289	0.01566	0.00004	0.00165	0.00059	0.00045
5	2026	Building - 100000 sqft - 10 stories	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	188.309	188.309	86	--	--	--	--	--	--	--	54,825	2.21132	0.03084	0.00247	0.02810	0.00758	0.03636	0.13364	0.00186	0.00015	0.00170	0.00046	0.00220
5	2026	Building - 100000 sqft - 10 stories	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	86	--	--	100000	--	--	--	0.0024	2,400	2.90722	4.40947	0.00586	0.46583	0.17107	0.07809	0.00769	0.01167	0.00002	0.00123	0.00045	0.00021
																										TOTAL (Tons Per Year)		11.200	0.786	0.013	0.203	0.061	0.193

Fugitive Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive Source Type	Number of Months	CO	NOx	SO_2	PM_{10}	VOC
1	2026	Terminal Apron	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.50032
1	2026	Terminal Apron	Asphalt Storage and Batching	12	0.99200	0.06195	0.01140	0.06795	0.03070
1	2026	Terminal Apron	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.02995	0.00000
1	2026	Terminal Apron	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.10790	0.00000
1	2026	Terminal Apron	Soil Handling	12	0.00000	0.00000	0.00000	0.11605	0.00000
1	2026	Terminal Apron	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	0.00000
2	2026	Site Work - 10000 sqft	Material Movement (Paved Roads)	10	0.00000	0.00000	0.00000	0.01000	0.00000
2	2026	Site Work - 10000 sqft	Material Movement (Unpaved Roads)	10	0.00000	0.00000	0.00000	0.02980	0.00000
2	2026	Site Work - 10000 sqft	Soil Handling	10	0.00000	0.00000	0.00000	0.00283	0.00000
2	2026	Site Work - 10000 sqft	Unstabilized Land and Wind Erosion	10	0.00000	0.00000	0.00000	0.00000	0.00000
3	2026	Building - 10000 sqft - 1 story	Concrete Mixing/Batching	4	0.00000	0.00000	0.00000	0.00855	0.00000
3	2026	Building - 10000 sqft - 1 story	Material Movement (Paved Roads)	4	0.00000	0.00000	0.00000	0.00399	0.00000
3	2026	Building - 10000 sqft - 1 story	Material Movement (Unpaved Roads)	4	0.00000	0.00000	0.00000	0.01180	0.00000
4	2026	Building - 10000 sqft - 1 story	Concrete Mixing/Batching	9	0.00000	0.00000	0.00000	0.00855	0.00000
4	2026	Building - 10000 sqft - 1 story	Material Movement (Paved Roads)	9	0.00000	0.00000	0.00000	0.00895	0.00000
4	2026	Building - 10000 sqft - 1 story	Material Movement (Unpaved Roads)	9	0.00000	0.00000	0.00000	0.02645	0.00000
5	2026	Building - 30000 sqft - 3 stories	Concrete Mixing/Batching	11	0.00000	0.00000	0.00000	0.02565	0.00000
5	2026	Building - 30000 sqft - 3 stories	Material Movement (Paved Roads)	11	0.00000	0.00000	0.00000	0.01095	0.00000
5	2026	Building - 30000 sqft - 3 stories	Material Movement (Unpaved Roads)	11	0.00000	0.00000	0.00000	0.03230	0.00000
1	2026	Parking Structure - 240000 sqft - G+2 stori	Asphalt Drying	8	0.00000	0.00000	0.00000	0.00000	0.03604
1	2026	Parking Structure - 240000 sqft - G+2 stori	Concrete Mixing/Batching	8	0.00000	0.00000	0.00000	0.20535	0.00000
1	2026	Parking Structure - 240000 sqft - G+2 stori	Material Movement (Paved Roads)	8	0.00000	0.00000	0.00000	0.03195	0.00000
5	2026	Building - 100000 sqft - 10 stories	Material Movement (Unpaved Roads)	4	0.00000	0.00000	0.00000	0.03670	0.00000
				TOTAL (Tons Per Year)	1.841	0.115	0.021	2.038	1.028

Total Construction Emissions By Source

Emission Source	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
NonRoad	5.680	12.956	0.029	0.945	0.917	0.776
OnRoad	11.200	0.786	0.013	0.203	0.061	0.193
Fugitive	1.841	0.115	0.021	2.038	--	1.028
TOTAL (Tons Per Year)	**18.721**	**13.857**	**0.063**	**3.186**	**0.977**	**1.998**

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INPUT DATA AND SPECIFICATIONS

State/County
Texas
Dallas County

Scenarios

Scer	Year	Number of	Season	Average Daily Temp (degF)	Max Daily Temp Change (degF)	Min Daily Temp Change (degF)
1	2026	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
2	2026	10	Summer	T <= 10	20 <= Change in T	20 <= Change in T
3	2026	4	Summer	T <= 10	20 <= Change in T	20 <= Change in T
4	2026	9	Summer	T <= 10	20 <= Change in T	20 <= Change in T
5	2026	11	Summer	T <= 10	20 <= Change in T	20 <= Change in T
6						

Project Final Selections

Scer	Project	Constructi	Equipment	Fuel Type	
1	Terminal Apron	Asphalt Pl	Asphalt Paver	Diesel	
1	Terminal Apron	Asphalt Pl	Dump Truck	Diesel	
1	Terminal Apron	Asphalt Pl	Other General Equipment	Diesel	
1	Terminal Apron	Asphalt Pl	Pickup Truck	Diesel	
1	Terminal Apron	Asphalt Pl	Roller	Diesel	
1	Terminal Apron	Asphalt Pl	Skid Steer Loader	Diesel	
1	Terminal Apron	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	
1	Terminal Apron	Clearing a	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Terminal Apron	Clearing a	Chipper/Stump Grinder	Diesel	
1	Terminal Apron	Clearing a	Pickup Truck	Diesel	
1	Terminal Apron	Drainage -	Dozer	Diesel	
1	Terminal Apron	Drainage -	Dump Truck	Diesel	
1	Terminal Apron	Drainage -	Excavator	Diesel	
1	Terminal Apron	Drainage -	Loader	Diesel	
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	
1	Terminal Apron	Drainage -	Roller	Diesel	
1	Terminal Apron	Drainage -	Dump Truck	Diesel	
1	Terminal Apron	Drainage -	Loader	Diesel	
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	
1	Terminal Apron	Drainage -	Tractors/Loader/Backhoe	Diesel	
1	Terminal Apron	Dust Contr	Water Truck	Diesel	
1	Terminal Apron	Excavatior	Dozer	Diesel	
1	Terminal Apron	Excavatior	Dump Truck (12 cy)	Diesel	
1	Terminal Apron	Excavatior	Pickup Truck	Diesel	
1	Terminal Apron	Excavatior	Roller	Diesel	
1	Terminal Apron	Excavatior	Dozer	Diesel	
1	Terminal Apron	Excavatior	Dump Truck (12 cy)	Diesel	
1	Terminal Apron	Excavatior	Excavator	Diesel	
1	Terminal Apron	Excavatior	Pickup Truck	Diesel	
1	Terminal Apron	Excavatior	Roller	Diesel	
1	Terminal Apron	Excavatior	Scraper	Diesel	
1	Terminal Apron	Excavatior	Dozer	Diesel	
1	Terminal Apron	Fencing	Concrete Truck	Diesel	
1	Terminal Apron	Fencing	Dump Truck	Diesel	
1	Terminal Apron	Fencing	Other General Equipment	Diesel	
1	Terminal Apron	Fencing	Pickup Truck	Diesel	
1	Terminal Apron	Fencing	Skid Steer Loader	Diesel	
1	Terminal Apron	Fencing	Tractors/Loader/Backhoe	Diesel	
1	Terminal Apron	Grading	Dozer	Diesel	
1	Terminal Apron	Grading	Grader	Diesel	
1	Terminal Apron	Grading	Roller	Diesel	
1	Terminal Apron	Hydroseec	Hydroseeder	Diesel	
1	Terminal Apron	Hydroseec	Off-Road Truck	Diesel	
1	Terminal Apron	Lighting	Dump Truck	Diesel	
1	Terminal Apron	Lighting	Loader	Diesel	
1	Terminal Apron	Lighting	Other General Equipment	Diesel	
1	Terminal Apron	Lighting	Pickup Truck	Diesel	
1	Terminal Apron	Lighting	Skid Steer Loader	Diesel	
1	Terminal Apron	Lighting	Tractors/Loader/Backhoe	Diesel	
1	Terminal Apron	Markings	Flatbed Truck	Diesel	
1	Terminal Apron	Markings	Other General Equipment	Diesel	
1	Terminal Apron	Markings	Pickup Truck	Diesel	
1	Terminal Apron	Sealing/Fu	Distributing Tanker	Diesel	
1	Terminal Apron	Sealing/Fu	Other General Equipment	Diesel	
1	Terminal Apron	Sealing/Fu	Pickup Truck	Diesel	
1	Terminal Apron	Soil Erosio	Other General Equipment	Diesel	
1	Terminal Apron	Soil Erosio	Pickup Truck	Diesel	
1	Terminal Apron	Soil Erosio	Pumps	Diesel	
1	Terminal Apron	Soil Erosio	Tractors/Loader/Backhoe	Diesel	
1	Terminal Apron	Subbase P	Dozer	Diesel	
1	Terminal Apron	Subbase P	Dump Truck (12 cy)	Diesel	
1	Terminal Apron	Subbase P	Pickup Truck	Diesel	
1	Terminal Apron	Subbase P	Roller	Diesel	
1	Terminal Apron	Topsoil Pla	Dozer	Diesel	
1	Terminal Apron	Topsoil Pla	Dump Truck	Diesel	
1	Terminal Apron	Topsoil Pla	Pickup Truck	Diesel	
2	Site Work - 10000 sqft	Constructi	Survey Crew Trucks	Diesel	
2	Site Work - 10000 sqft	Constructi	Tractor Trailers Temp Fac.	Diesel	
2	Site Work - 10000 sqft	Site Cleari	Bulldozer	Diesel	
2	Site Work - 10000 sqft	Site Cleari	Chain Saws	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Site Work - 10000 sqft	Site Cleari	Flat Bed or Dump Trucks	Diesel	
2	Site Work - 10000 sqft	Site Cleari	Front Loader	Diesel	
2	Site Work - 10000 sqft	Site Cleari	Grub the site down 2'-0	Diesel	
2	Site Work - 10000 sqft	Site Cleari	Log Chipper	Diesel	
2	Site Work - 10000 sqft	Site Cleari	Mulcher	Diesel	
2	Site Work - 10000 sqft	Site Cleari	Ten Wheelers	Diesel	
2	Site Work - 10000 sqft	Site Cleari	Tractor	Diesel	
2	Site Work - 10000 sqft	Site Resto	Bob Cat	Diesel	
2	Site Work - 10000 sqft	Site Resto	Concrete Ready Mix Trucks	Diesel	
2	Site Work - 10000 sqft	Site Resto	Tractor Trailer with Boom Hoist- Delivery	Diesel	
2	Site Work - 10000 sqft	Site Resto	Compacting Equipment	Diesel	
2	Site Work - 10000 sqft	Site Resto	Small Dozer	Diesel	
2	Site Work - 10000 sqft	Site Resto	Forktruck (Hoist)	Diesel	
2	Site Work - 10000 sqft	Site Resto	Roller	Diesel	
2	Site Work - 10000 sqft	Site Resto	Seed Truck Spreader	Diesel	
2	Site Work - 10000 sqft	Site Resto	Tractor Trailer- Material Delivery	Diesel	
2	Site Work - 10000 sqft	Undergrou	Backhoe	Diesel	
2	Site Work - 10000 sqft	Undergrou	Fork Truck	Diesel	
2	Site Work - 10000 sqft	Undergrou	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	
3	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	
3	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	
3	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	
3	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	
3	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	
3	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	
3	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	
3	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	
3	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	
3	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	
3	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	
3	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	
3	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	
3	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	
3	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	
3	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	
3	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	
3	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	
3	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	
3	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	
4	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	
4	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	
4	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	
4	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	
4	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	
4	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	
4	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	
4	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
4	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	
4	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	
4	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	
4	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	
4	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	
4	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	
4	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	
4	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	
5	Building - 30000 sqft- 3 stori	Concrete F	Backhoe	Diesel	
5	Building - 30000 sqft- 3 stori	Concrete F	Concrete Ready Mix Trucks	Diesel	
5	Building - 30000 sqft- 3 stori	Concrete F	Fork Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Concrete F	Tool Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Concrete F	Tractor Trailer- Material Delivery	Diesel	
5	Building - 30000 sqft- 3 stori	Constructi	Survey Crew Trucks	Diesel	
5	Building - 30000 sqft- 3 stori	Constructi	Tractor Trailers Temp Fac.	Diesel	
5	Building - 30000 sqft- 3 stori	Exterior W	Fork Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Exterior W	Generator	Diesel	
5	Building - 30000 sqft- 3 stori	Exterior W	Man Lift	Diesel	
5	Building - 30000 sqft- 3 stori	Exterior W	Tool Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Exterior W	Tractor Trailer- Material Delivery	Diesel	
5	Building - 30000 sqft- 3 stori	Interior Bu	Fork Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Interior Bu	Man Lift	Diesel	
5	Building - 30000 sqft- 3 stori	Interior Bu	Tool Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
5	Building - 30000 sqft- 3 stori	Roofing	High Lift	Diesel	
5	Building - 30000 sqft- 3 stori	Roofing	Man Lift (Fascia Construction)	Diesel	
5	Building - 30000 sqft- 3 stori	Roofing	Material Deliveries	Diesel	
5	Building - 30000 sqft- 3 stori	Roofing	Tractor Trailer- Material Delivery	Diesel	
5	Building - 30000 sqft- 3 stori	Security &	High Lift	Diesel	
5	Building - 30000 sqft- 3 stori	Security &	Tool Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Structural	90 Ton Crane	Diesel	
5	Building - 30000 sqft- 3 stori	Structural	Concrete Pump	Diesel	
5	Building - 30000 sqft- 3 stori	Structural	Concrete Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Structural	Fork Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Structural	Tool Truck	Diesel	
5	Building - 30000 sqft- 3 stori	Structural	Tractor Trailer- Steel Deliveries	Diesel	
5	Building - 30000 sqft- 3 stori	Structural	Trowel Machine	Diesel	

Overall Size

Scer	Project	Project Siz	User Input	Unit
1	Terminal Apron	What is th	41.653	$ Million(s)
1	Terminal Apron	What is th	4100	Feet
1	Terminal Apron	What is th	100	Feet
2	Site Work - 10000 sqft	What is th	0.028	$ Million(s)
3	Building - 10000 sqft- 1 story	What is th	0.097	$ Million(s)
4	Building - 10000 sqft- 1 story	What is th	11.91	$ Million(s)
5	Building - 30000 sqft- 3 stori	What is th	0.042	$ Million(s)

Size Detail (Estimated based on engineering experience)

Scer	Project	Constructi	Default Activity Size	Unit	User Activity Size		
1	Terminal Apron	Asphalt Pl	45510	Square Yards		9.44	0.50032
1	Terminal Apron	Clearing a	10.4	Acres			
1	Terminal Apron	Drainage -	4110	Linear Feet			
1	Terminal Apron	Drainage -	8220	Linear Feet			
1	Terminal Apron	Dust Contr	360	Days			
1	Terminal Apron	Excavatior	18962.5	Cubic Yards			
1	Terminal Apron	Excavatior	18962.5	Cubic Yards			
1	Terminal Apron	Excavatior	45510	Square Yards			
1	Terminal Apron	Fencing	4100	Linear Feet			
1	Terminal Apron	Grading	50183.1	Square Yards			
1	Terminal Apron	Hydroseec	452100	Square Feet			
1	Terminal Apron	Lighting	8400	Linear Feet			
1	Terminal Apron	Markings	410000	Square Feet			
1	Terminal Apron	Sealing/Fu	45510	Square Yards			
1	Terminal Apron	Soil Erosio	10.4	Acres			
1	Terminal Apron	Subbase P	45510	Square Yards			
1	Terminal Apron	Subbase P	15170	Cubic Yards			
1	Terminal Apron	Topsoil Pla	8363.9	Cubic Yards			

Activity: Non-Road (Estimated based on engineering experience)

Scer	Project	Constructi	Equipment	Fuel Type	Activity Size	Activity Rate	Default Activity	Activity Unit	User Activity Data	
1	Terminal Apron	Asphalt Pl	Asphalt Paver	Diesel	45510.00 SY	8 Hours per 6400.00 SY	56.89	hours		
1	Terminal Apron	Asphalt Pl	Dump Truck	Diesel	45510.00 SY	8 Hours per 1777.00 SY	204.88	hours		
1	Terminal Apron	Asphalt Pl	Other General Equipment	Diesel	45510.00 SY	16 Hours per 6400.00 SY	113.78	hours		
1	Terminal Apron	Asphalt Pl	Pickup Truck	Diesel	45510.00 SY	8 Hours per 6400.00 SY	56.89	hours		
1	Terminal Apron	Asphalt Pl	Roller	Diesel	45510.00 SY	8 Hours per 6400.00 SY	56.89	hours		
1	Terminal Apron	Asphalt Pl	Skid Steer Loader	Diesel	45510.00 SY	8 Hours per 6400.00 SY	56.89	hours		
1	Terminal Apron	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	45510.00 SY	8 Hours per 5000.00 SY	72.82	hours		
1	Terminal Apron	Clearing a	Chain Saw	Diesel	10.40 Acre	12 Hours per 1.00 Acre	124.8	hours		*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Terminal Apron	Clearing a	Chipper/Stump Grinder	Diesel	10.40 Acre	12 Hours per 1.00 Acre	124.8	hours		
1	Terminal Apron	Clearing a	Pickup Truck	Diesel	10.40 Acre	16 Hours per 1.00 Acre	166.4	hours		
1	Terminal Apron	Drainage -	Dozer	Diesel	4110.00 LF	8 Hours per 250.00 LF	131.52	hours		
1	Terminal Apron	Drainage -	Dump Truck	Diesel	4110.00 LF	8 Hours per 250.00 LF	131.52	hours		
1	Terminal Apron	Drainage -	Excavator	Diesel	4110.00 LF	8 Hours per 250.00 LF	131.52	hours		
1	Terminal Apron	Drainage -	Loader	Diesel	4110.00 LF	8 Hours per 250.00 LF	131.52	hours		
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	4110.00 LF	8 Hours per 250.00 LF	131.52	hours		
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	4110.00 LF	8 Hours per 250.00 LF	131.52	hours		
1	Terminal Apron	Drainage -	Roller	Diesel	4110.00 LF	8 Hours per 250.00 LF	131.52	hours		
1	Terminal Apron	Drainage -	Dump Truck	Diesel	8220.00 LF	8 Hours per 900.00 LF	73.07	hours		
1	Terminal Apron	Drainage -	Loader	Diesel	8220.00 LF	8 Hours per 900.00 LF	73.07	hours		
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	8220.00 LF	8 Hours per 900.00 LF	73.07	hours		
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	8220.00 LF	8 Hours per 900.00 LF	73.07	hours		
1	Terminal Apron	Drainage -	Tractors/Loader/Backhoe	Diesel	8220.00 LF	8 Hours per 900.00 LF	73.07	hours		
1	Terminal Apron	Dust Contr	Water Truck	Diesel	360.00 Day	8 Hours per 1.00 Day	2880	hours		
1	Terminal Apron	Excavatior	Dozer	Diesel	18962.50 CY	8 Hours per 600.00 CY	252.83	hours		
1	Terminal Apron	Excavatior	Dump Truck (12 cy)	Diesel	18962.50 CY	8 Hours per 600.00 CY	252.83	hours		
1	Terminal Apron	Excavatior	Pickup Truck	Diesel	18962.50 CY	8 Hours per 600.00 CY	252.83	hours		
1	Terminal Apron	Excavatior	Roller	Diesel	18962.50 CY	8 Hours per 1300.00 CY	116.69	hours		
1	Terminal Apron	Excavatior	Dozer	Diesel	18962.50 CY	8 Hours per 800.00 CY	189.63	hours		
1	Terminal Apron	Excavatior	Dump Truck (12 cy)	Diesel	18962.50 CY	8 Hours per 300.00 CY	505.67	hours		
1	Terminal Apron	Excavatior	Excavator	Diesel	18962.50 CY	8 Hours per 1000.00 CY	151.7	hours		
1	Terminal Apron	Excavatior	Pickup Truck	Diesel	18962.50 CY	8 Hours per 1000.00 CY	151.7	hours		
1	Terminal Apron	Excavatior	Roller	Diesel	18962.50 CY	8 Hours per 1000.00 CY	151.7	hours		
1	Terminal Apron	Excavatior	Scraper	Diesel	18962.50 CY	8 Hours per 800.00 CY	189.63	hours		
1	Terminal Apron	Excavatior	Dozer	Diesel	45510.00 SY	8 Hours per 5100.00 SY	71.39	hours		
1	Terminal Apron	Fencing	Concrete Truck	Diesel	4100.00 LF	2 Hours per 180.00 LF	45.56	hours		
1	Terminal Apron	Fencing	Dump Truck	Diesel	4100.00 LF	8 Hours per 180.00 LF	182.22	hours		
1	Terminal Apron	Fencing	Other General Equipment	Diesel	4100.00 LF	8 Hours per 180.00 LF	182.22	hours		
1	Terminal Apron	Fencing	Pickup Truck	Diesel	4100.00 LF	8 Hours per 180.00 LF	182.22	hours		
1	Terminal Apron	Fencing	Skid Steer Loader	Diesel	4100.00 LF	8 Hours per 180.00 LF	182.22	hours		
1	Terminal Apron	Fencing	Tractors/Loader/Backhoe	Diesel	4100.00 LF	8 Hours per 180.00 LF	182.22	hours		
1	Terminal Apron	Grading	Dozer	Diesel	50183.10 SY	8 Hours per 8000.00 SY	50.18	hours		
1	Terminal Apron	Grading	Grader	Diesel	50183.10 SY	8 Hours per 8000.00 SY	50.18	hours		
1	Terminal Apron	Grading	Roller	Diesel	50183.10 SY	8 Hours per 8000.00 SY	50.18	hours		
1	Terminal Apron	Hydroseec	Hydroseeder	Diesel	452100.00 SF	8 Hours per 80000.00 SF	45.21	hours		
1	Terminal Apron	Hydroseec	Off-Road Truck	Diesel	452100.00 SF	8 Hours per 80000.00 SF	45.21	hours		
1	Terminal Apron	Lighting	Dump Truck	Diesel	8400.00 LF	8 Hours per 1200.00 LF	56	hours		
1	Terminal Apron	Lighting	Loader	Diesel	8400.00 LF	8 Hours per 1200.00 LF	56	hours		
1	Terminal Apron	Lighting	Other General Equipment	Diesel	8400.00 LF	8 Hours per 1200.00 LF	56	hours		
1	Terminal Apron	Lighting	Pickup Truck	Diesel	8400.00 LF	8 Hours per 1200.00 LF	56	hours		
1	Terminal Apron	Lighting	Skid Steer Loader	Diesel	8400.00 LF	8 Hours per 1200.00 LF	56	hours		
1	Terminal Apron	Lighting	Tractors/Loader/Backhoe	Diesel	8400.00 LF	8 Hours per 1200.00 LF	56	hours		
1	Terminal Apron	Markings	Flatbed Truck	Diesel	410000.00 SF	8 Hours per 3500.00 SF	937.14	hours		
1	Terminal Apron	Markings	Other General Equipment	Diesel	410000.00 SF	8 Hours per 3500.00 SF	937.14	hours		
1	Terminal Apron	Markings	Pickup Truck	Diesel	410000.00 SF	8 Hours per 3500.00 SF	937.14	hours		
1	Terminal Apron	Sealing/Fu	Distributing Tanker	Diesel	45510.00 SY	8 Hours per 3000.00 SY	121.36	hours		
1	Terminal Apron	Sealing/Fu	Other General Equipment	Diesel	45510.00 SY	8 Hours per 3000.00 SY	121.36	hours		
1	Terminal Apron	Sealing/Fu	Pickup Truck	Diesel	45510.00 SY	8 Hours per 3000.00 SY	121.36	hours		
1	Terminal Apron	Soil Erosio	Other General Equipment	Diesel	10.40 Acre	4 Hours per 1.00 Acre	41.6	hours		
1	Terminal Apron	Soil Erosio	Pickup Truck	Diesel	10.40 Acre	8 Hours per 1.00 Acre	83.2	hours		
1	Terminal Apron	Soil Erosio	Pumps	Diesel	10.40 Acre	4 Hours per 1.00 Acre	41.6	hours		
1	Terminal Apron	Soil Erosio	Tractors/Loader/Backhoe	Diesel	10.40 Acre	4 Hours per 1.00 Acre	41.6	hours		
1	Terminal Apron	Subbase P	Dozer	Diesel	45510.00 SY	8 Hours per 3800.00 SY	95.81	hours		
1	Terminal Apron	Subbase P	Dump Truck (12 cy)	Diesel	15170.00 CY	8 Hours per 180.00 CY	674.22	hours		
1	Terminal Apron	Subbase P	Pickup Truck	Diesel	45510.00 SY	8 Hours per 3800.00 SY	95.81	hours		
1	Terminal Apron	Subbase P	Roller	Diesel	15170.00 CY	8 Hours per 1300.00 CY	93.35	hours		
1	Terminal Apron	Topsoil Pla	Dozer	Diesel	8363.90 CY	8 Hours per 600.00 CY	111.52	hours		
1	Terminal Apron	Topsoil Pla	Dump Truck	Diesel	8363.90 CY	8 Hours per 600.00 CY	111.52	hours		
1	Terminal Apron	Topsoil Pla	Pickup Truck	Diesel	8363.90 CY	8 Hours per 600.00 CY	111.52	hours		
2	Site Work - 10000 sqft	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours		
2	Site Work - 10000 sqft	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours		
2	Site Work - 10000 sqft	Site Cleari	Bulldozer	Diesel	10000.00 SF	0.004 Hours per 1.00 SF	40	hours		
2	Site Work - 10000 sqft	Site Cleari	Chain Saws	Diesel	10000.00 SF	0.004 Hours per 1.00 SF	40	hours		*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Site Work - 10000 sqft	Site Cleari	Flat Bed or Dump Trucks	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
2	Site Work - 10000 sqft	Site Cleari	Front Loader	Diesel	10000.00 SF	0.004 Hours per 1.00 SF	40	hours		
2	Site Work - 10000 sqft	Site Cleari	Grub the site down 2'-0	Diesel	10000.00 SF	0.004 Hours per 1.00 SF	40	hours		
2	Site Work - 10000 sqft	Site Cleari	Log Chipper	Diesel	10000.00 SF	0.004 Hours per 1.00 SF	40	hours		
2	Site Work - 10000 sqft	Site Cleari	Mulcher	Diesel	10000.00 SF	0.004 Hours per 1.00 SF	40	hours		
2	Site Work - 10000 sqft	Site Cleari	Ten Wheelers	Diesel	10000.00 SF	0.004 Hours per 1.00 SF	40	hours		
2	Site Work - 10000 sqft	Site Cleari	Tractor	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
2	Site Work - 10000 sqft	Site Resto	Bob Cat	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
2	Site Work - 10000 sqft	Site Resto	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
2	Site Work - 10000 sqft	Site Resto	Tractor Trailer with Boom Hoist- Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
2	Site Work - 10000 sqft	Site Resto	Compacting Equipment	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
2	Site Work - 10000 sqft	Site Resto	Small Dozer	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
2	Site Work - 10000 sqft	Site Resto	Forktruck (Hoist)	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
2	Site Work - 10000 sqft	Site Resto	Roller	Diesel	10000.00 SF	0.004 Hours per 1.00 SF	40	hours		
2	Site Work - 10000 sqft	Site Resto	Seed Truck Spreader	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
2	Site Work - 10000 sqft	Site Resto	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
2	Site Work - 10000 sqft	Undergrou	Backhoe	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
2	Site Work - 10000 sqft	Undergrou	Fork Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
2	Site Work - 10000 sqft	Undergrou	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.003 Hours per 1.00 SF	30	hours		
3	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
3	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
3	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
3	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
3	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
3	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours		
3	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours		
3	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
3	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
3	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
3	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
3	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
3	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
3	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours		
3	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours		
3	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
3	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
3	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
3	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
3	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
4	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours		
4	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours		
4	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
4	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
4	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
4	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
4	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
4	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
4	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours		
4	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours		
4	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
4	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
4	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
4	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
4	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
5	Building - 30000 sqft- 3 stori	Concrete F	Backhoe	Diesel	30000.00 SF	0.01067 Hours per 1.00 SF	320.1	hours		
5	Building - 30000 sqft- 3 stori	Concrete F	Concrete Ready Mix Trucks	Diesel	30000.00 SF	0.002 Hours per 1.00 SF	60	hours		
5	Building - 30000 sqft- 3 stori	Concrete F	Fork Truck	Diesel	30000.00 SF	0.01067 Hours per 1.00 SF	320.1	hours		
5	Building - 30000 sqft- 3 stori	Concrete F	Tool Truck	Diesel	30000.00 SF	0.00267 Hours per 1.00 SF	80.1	hours		
5	Building - 30000 sqft- 3 stori	Concrete F	Tractor Trailer- Material Delivery	Diesel	30000.00 SF	0.00053 Hours per 1.00 SF	15.9	hours		
5	Building - 30000 sqft- 3 stori	Constructi	Survey Crew Trucks	Diesel	30000.00 SF	0.00033 Hours per 1.00 SF	9.9	hours		

5	Building - 30000 sqft - 3 stori	Constructi	Tractor Trailers Temp Fac.	Diesel	30000.00 SF	0.00013 Hours per 1.00 SF	3.9 hours
5	Building - 30000 sqft - 3 stori	Exterior W	Fork Truck	Diesel	30000.00 SF	0.02 Hours per 1.00 SF	600 hours
5	Building - 30000 sqft - 3 stori	Exterior W	Generator	Diesel	30000.00 SF	0.01 Hours per 1.00 SF	300 hours
5	Building - 30000 sqft - 3 stori	Exterior W	Man Lift	Diesel	30000.00 SF	0.02 Hours per 1.00 SF	600 hours
5	Building - 30000 sqft - 3 stori	Exterior W	Tool Truck	Diesel	30000.00 SF	0.005 Hours per 1.00 SF	150 hours
5	Building - 30000 sqft - 3 stori	Exterior W	Tractor Trailer - Material Delivery	Diesel	30000.00 SF	0.005 Hours per 1.00 SF	150 hours
5	Building - 30000 sqft - 3 stori	Interior Bu	Fork Truck	Diesel	30000.00 SF	0.08 Hours per 1.00 SF	2400 hours
5	Building - 30000 sqft - 3 stori	Interior Bu	Man Lift	Diesel	30000.00 SF	0.08 Hours per 1.00 SF	2400 hours
5	Building - 30000 sqft - 3 stori	Interior Bu	Tool Truck	Diesel	30000.00 SF	0.01 Hours per 1.00 SF	300 hours
5	Building - 30000 sqft - 3 stori	Interior Bu	Tractor Trailer - Material Delivery	Diesel	30000.00 SF	0.02 Hours per 1.00 SF	600 hours
5	Building - 30000 sqft - 3 stori	Roofing	High Lift	Diesel	30000.00 SF	0.004 Hours per 1.00 SF	120 hours
5	Building - 30000 sqft - 3 stori	Roofing	Man Lift (Fascia Construction)	Diesel	30000.00 SF	0.0008 Hours per 1.00 SF	24 hours
5	Building - 30000 sqft - 3 stori	Roofing	Material Deliveries	Diesel	30000.00 SF	0.002 Hours per 1.00 SF	60 hours
5	Building - 30000 sqft - 3 stori	Roofing	Tractor Trailer - Material Delivery	Diesel	30000.00 SF	0.002 Hours per 1.00 SF	60 hours
5	Building - 30000 sqft - 3 stori	Security &	High Lift	Diesel	30000.00 SF	0.02667 Hours per 1.00 SF	800.1 hours
5	Building - 30000 sqft - 3 stori	Security &	Tool Truck	Diesel	30000.00 SF	0.00667 Hours per 1.00 SF	200.1 hours
5	Building - 30000 sqft - 3 stori	Structural	90 Ton Crane	Diesel	30000.00 SF	0.01067 Hours per 1.00 SF	320.1 hours
5	Building - 30000 sqft - 3 stori	Structural	Concrete Pump	Diesel	30000.00 SF	0.0004 Hours per 1.00 SF	12 hours
5	Building - 30000 sqft - 3 stori	Structural	Concrete Truck	Diesel	30000.00 SF	0.0008 Hours per 1.00 SF	24 hours
5	Building - 30000 sqft - 3 stori	Structural	Fork Truck	Diesel	30000.00 SF	0.00267 Hours per 1.00 SF	80.1 hours
5	Building - 30000 sqft - 3 stori	Structural	Tool Truck	Diesel	30000.00 SF	0.0004 Hours per 1.00 SF	12 hours
5	Building - 30000 sqft - 3 stori	Structural	Tractor Trailer - Steel Deliveries	Diesel	30000.00 SF	0.00133 Hours per 1.00 SF	39.9 hours
5	Building - 30000 sqft - 3 stori	Structural	Trowel Machine	Diesel	30000.00 SF	0.0004 Hours per 1.00 SF	12 hours

Activity: On-Road (Estimated based on engineering experience)

Scen	Project	Equipment	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Number of Employees Or $M*11 (Whic	Number of F	Project Lengtl	Project Width	Project Area	Building Hei	Open Space	Number of Ti	Activity Size	Activity Rate	Default VMT	User VMT
1	Terminal Apron	Asphalt 18	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	4100	100	--	--	--	--	--	--	5949	
1	Terminal Apron	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	4100	100	--	--	--	--	--	--	8428	
1	Terminal Apron	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	4100	100	--	--	--	--	--	--	50567	
1	Terminal Apron	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	458.183	258	--	--	--	--	--	--	--	--	3546336	
2	Site Work - 10000 sqft	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	215	--	--	10000	--	--	--	--	--	2313	
2	Site Work - 10000 sqft	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	215	--	--	10000	--	--	--	--	--	1233	
2	Site Work - 10000 sqft	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	0.308	215	--	--	--	--	--	--	--	--	1987	
2	Site Work - 10000 sqft	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	215	--	--	10000	--	--	--	--	0.008	800	
3	Building - 10000 sqft - 1 story	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	86	--	--	10000	--	--	--	--	--	2313	
3	Building - 10000 sqft - 1 story	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	86	--	--	10000	--	--	--	--	--	1233	
3	Building - 10000 sqft - 1 story	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	1.067	86	--	--	--	--	--	--	--	--	2753	
3	Building - 10000 sqft - 1 story	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	86	--	--	10000	--	--	--	--	0.0016	160	
4	Building - 10000 sqft - 1 story	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	193	--	--	10000	--	--	--	--	--	2313	
4	Building - 10000 sqft - 1 story	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	193	--	--	10000	--	--	--	--	--	1233	
4	Building - 10000 sqft - 1 story	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	131.01	193	--	--	--	--	--	--	--	--	758548	
4	Building - 10000 sqft - 1 story	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	193	--	--	10000	--	--	--	--	0.0016	160	
5	Building - 30000 sqft - 3 stori	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	236	--	--	30000	--	--	--	--	--	6938	
5	Building - 30000 sqft - 3 stori	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	236	--	--	30000	--	--	--	--	--	3700	
5	Building - 30000 sqft - 3 stori	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	0.462	236	--	--	--	--	--	--	--	--	3271	
5	Building - 30000 sqft - 3 stori	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	236	--	--	30000	--	--	--	--	0.00053	159	

Emission Factor: Non-Road (from NONROAD)

Scen	Project	Constructi	Equipment	Fuel Type	Avg Rated HP	Load Factor	CO (g/hp-hr)	NOx (g/hp-h	CO2 (g/hp-hr)	SO2 (g/hp-hr)	PM10 (g/hp-hr)	PM2.5 (g/hp-	VOC Exhaust	VOC Evaporative (g/equipment-day)	
1	Terminal Apron	Asphalt Pl	Asphalt Paver	Diesel	175	0.59	0.178006916	0.380524	536.4026	0.00261607	0.020929807	0.0192554	0.1412543	0.024878	
1	Terminal Apron	Asphalt Pl	Dump Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Asphalt Pl	Other General Equipment	Diesel	175	0.43	0.167014562	0.561281	530.599416	0.00264002	0.030706667	0.0282501	0.14628	0.0489677	
1	Terminal Apron	Asphalt Pl	Pickup Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Asphalt Pl	Roller	Diesel	100	0.59	0.530696497	0.462285	595.721319	0.00291792	0.032494746	0.0298952	0.1437383	0.0242845	
1	Terminal Apron	Asphalt Pl	Skid Steer Loader	Diesel	75	0.21	2.759620343	3.890115	694.492424	0.00390539	0.360462256	0.3316253	0.4971863	0.2444085	
1	Terminal Apron	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355143356	4.461247	594.730529	0.00400921	0.353811148	0.3255063	0.4708041	0	
1	Terminal Apron	Clearing a	Chain Saw	Diesel	11	0.7	293.5350168	1.322993	685.996376	0.14019157	9.74818938	8.9683342	61.888358	25.002038	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Terminal Apron	Clearing a	Chipper/Stump Grinder	Diesel	100	0.43	1.093697622	1.81857	589.642494	0.00321894	0.169587629	0.1560206	0.2397587	0.2161038	
1	Terminal Apron	Clearing a	Pickup Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Drainage -	Dozer	Diesel	175	0.59	0.16034878	0.33519	536.4064	0.00260265	0.015882132	0.0146116	0.1399934	0.0135994	
1	Terminal Apron	Drainage -	Dump Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Drainage -	Excavator	Diesel	175	0.59	0.149385399	0.306284	536.407967	0.00259426	0.012628937	0.0116186	0.13948	0.0063094	
1	Terminal Apron	Drainage -	Loader	Diesel	175	0.59	0.192634477	0.426759	536.398948	0.00262712	0.025055891	0.0230514	0.1424523	0.0339976	
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	175	0.43	0.167014562	0.561281	530.599416	0.00264002	0.030706667	0.0282501	0.14628	0.0489677	
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Drainage -	Roller	Diesel	100	0.59	0.530696497	0.462285	595.721319	0.00291792	0.032494746	0.0298952	0.1437383	0.0242845	
1	Terminal Apron	Drainage -	Dump Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Drainage -	Loader	Diesel	175	0.59	0.192634477	0.426759	536.398948	0.00262712	0.025055891	0.0230514	0.1424523	0.0339976	
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	175	0.43	0.167014562	0.561281	530.599416	0.00264002	0.030706667	0.0282501	0.14628	0.0489677	
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Drainage -	Tractors/Loader/Backhoe	Diesel	100	0.21	2.36385704	1.641073	694.953734	0.00370923	0.285352728	0.2625245	0.3448683	0.3227791	
1	Terminal Apron	Dust Contr	Water Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Excavatior	Dozer	Diesel	175	0.59	0.16034878	0.33519	536.4064	0.00260265	0.015882132	0.0146116	0.1399934	0.0135994	
1	Terminal Apron	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Excavatior	Pickup Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Excavatior	Roller	Diesel	100	0.59	0.530696497	0.462285	595.721319	0.00291792	0.032494746	0.0298952	0.1437383	0.0242845	
1	Terminal Apron	Excavatior	Dozer	Diesel	175	0.59	0.16034878	0.33519	536.4064	0.00260265	0.015882132	0.0146116	0.1399934	0.0135994	
1	Terminal Apron	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Excavatior	Excavator	Diesel	175	0.59	0.149385399	0.306284	536.407967	0.00259426	0.012628937	0.0116186	0.13948	0.0063094	
1	Terminal Apron	Excavatior	Pickup Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Excavatior	Roller	Diesel	100	0.59	0.530696497	0.462285	595.721319	0.00291792	0.032494746	0.0298952	0.1437383	0.0242845	
1	Terminal Apron	Excavatior	Scraper	Diesel	600	0.59	0.233704428	0.569722	536.400046	0.00265831	0.027272326	0.0250905	0.142087	0.1842167	
1	Terminal Apron	Excavatior	Dozer	Diesel	175	0.59	0.16034878	0.33519	536.4064	0.00260265	0.015882132	0.0146116	0.1399934	0.0135994	
1	Terminal Apron	Fencing	Concrete Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Fencing	Dump Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Fencing	Other General Equipment	Diesel	175	0.43	0.167014562	0.561281	530.599416	0.00264002	0.030706667	0.0282501	0.14628	0.0489677	
1	Terminal Apron	Fencing	Pickup Truck	Diesel	600	0.59	0.145038244	0.30228	536.408748	0.00259111	0.011033632	0.0101509	0.1392309	0.0112334	
1	Terminal Apron	Fencing	Skid Steer Loader	Diesel	75	0.21	2.759620343	3.890115	694.492424	0.00390539	0.360462256	0.3316253	0.4971863	0.2444085	

5	Building - 30000 sqft - 3 stori	Material N	Wt. = Mean vehicle weight	32	tons
5	Building - 30000 sqft - 3 stori	Material N	VMT = Vehicle miles traveled	2360	miles
5	Building - 30000 sqft - 3 stori	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	64.6	lbs

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ASSUMPTIONS

Emission factors were developed from the following models:

- On-Road Vehicles: MOVES 2010b, revised January 2013
- Non-Road Equipment: NONROAD2008a, July 2009

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:
- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:
- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)
- Excavator

Excavator for U/G Services/Tanks
Flat Bed or Dump Trucks
Flatbed Truck
Grader
Grout Wheel Truck
Hoist Equipment with 40 Ton Rig
Hydraliz Hammer
Hydroseeder
Line Painting Truck and Sprayer
Material Deliveries
Off Road Truck
Pickup Truck
Scraper
Seed Truck Spreader
Small Dozer
Survey Crew Trucks
Ten Wheelers
Ten Wheelers-Material Delivery
Tool Truck
Tractor Trailer- Equipment Delivery
Tractor Trailer- Material Delivery
Tractor Trailer- Steel Deliveries
Tractor Trailer- Stone Delivery
Tractor Trailer- Topsoil & Seed
Tractor Trailer- Truck Delivery
Tractor Trailer with Boom Hoist -Curbs Del & Place
Tractor Trailer with Boom Hoist -Delivery
Tractor Trailers -Rebar Deliveries
Tractor Trailers Temp Fac.
Truck for Topsoil & Seed Deli&Spread
Water Truck
Excavator with Bucket
Excavator with Hoe Ram

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Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/16/2026 10:25:41 AM

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STUDY

Study Name

DFW Terminal SEA

Study Description

Construction 2027

2027 DFW CTA Supplemental EA Construction Emissions

Non-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Construction Activity	Equipment	TEXN2.6 Equipment	TEXN2.6 Lookup	Fuel	HP Average	Load Factor	Hours of Activity	TEXN2.6 NONROAD Emission Factors (g/hp-hr): CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	TEXN2.6 Nonroad Emissions (Tons Per Year): CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2027	Terminal Apron	Asphalt Placement	Asphalt Paver	Pavers	Pavers175	Diesel	175	0.59	23.6985	0.57276	1.48703	0.00157	0.09699	0.09408	0.11600	0.00154	0.00401	0.00000	0.00026	0.00025	0.00031
1	2027	Terminal Apron	Asphalt Placement	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	85.35194147	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00433	0.01129	0.00004	0.00077	0.00075	0.00067
1	2027	Terminal Apron	Asphalt Placement	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	47.397	0.36811	1.01022	0.00155	0.08761	0.08499	0.06614	0.00145	0.00397	0.00001	0.00034	0.00033	0.00026
1	2027	Terminal Apron	Asphalt Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	23.6985	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00120	0.00313	0.00001	0.00021	0.00021	0.00019
1	2027	Terminal Apron	Asphalt Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	23.6985	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00180	0.00282	0.00000	0.00028	0.00027	0.00021
1	2027	Terminal Apron	Asphalt Placement	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	23.6985	0.15374	2.06479	0.00188	0.01488	0.01443	0.04104	0.00006	0.00085	0.00000	0.00001	0.00001	0.00002
1	2027	Terminal Apron	Asphalt Placement	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	Diesel	25	0.59	30.33408	1.25977	3.16474	0.00233	0.14373	0.13941	0.29806	0.00062	0.00156	0.00000	0.00007	0.00007	0.00015
1	2027	Terminal Apron	Clearing and Grubbing	Chain Saw	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.7	51.6	1.76141	2.98969	0.00198	0.17094	0.16581	0.59666	0.00077	0.00131	0.00000	0.00007	0.00007	0.00026
1	2027	Terminal Apron	Clearing and Grubbing	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	51.6	0.98621	1.58143	0.00184	0.15801	0.15327	0.09548	0.00241	0.00387	0.00000	0.00039	0.00037	0.00023
1	2027	Terminal Apron	Clearing and Grubbing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	68.8	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00349	0.00910	0.00003	0.00062	0.00060	0.00054
1	2027	Terminal Apron	Drainage - 24 inch SICPP	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	54.976	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00093	0.00258	0.00001	0.00022	0.00021	0.00016
1	2027	Terminal Apron	Drainage - 24 inch SICPP	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	54.976	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00279	0.00727	0.00003	0.00050	0.00048	0.00043
1	2027	Terminal Apron	Drainage - 24 inch SICPP	Excavator	Excavators	Excavators175	Diesel	175	0.59	54.976	0.12510	0.36678	0.00143	0.03048	0.02957	0.02094	0.00078	0.00229	0.00001	0.00019	0.00019	0.00013
1	2027	Terminal Apron	Drainage - 24 inch SICPP	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	54.976	0.70931	1.26694	0.00135	0.12693	0.12312	0.18954	0.00444	0.00793	0.00001	0.00079	0.00077	0.00119
1	2027	Terminal Apron	Drainage - 24 inch SICPP	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	54.976	0.36811	1.01022	0.00155	0.08761	0.08499	0.06614	0.00168	0.00461	0.00001	0.00040	0.00039	0.00030
1	2027	Terminal Apron	Drainage - 24 inch SICPP	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	54.976	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00279	0.00727	0.00003	0.00050	0.00048	0.00043
1	2027	Terminal Apron	Drainage - 24 inch SICPP	Roller	Rollers	Rollers100	Diesel	100	0.59	54.976	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00417	0.00655	0.00001	0.00066	0.00064	0.00048
1	2027	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	30.54222222	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00155	0.00404	0.00001	0.00028	0.00027	0.00024
1	2027	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	30.54222222	0.70931	1.26694	0.00135	0.12693	0.12312	0.18954	0.00247	0.00440	0.00000	0.00044	0.00043	0.00066
1	2027	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	30.54222222	0.36811	1.01022	0.00155	0.08761	0.08499	0.06614	0.00093	0.00256	0.00000	0.00022	0.00022	0.00017
1	2027	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	30.54222222	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00155	0.00404	0.00001	0.00028	0.00027	0.00024
1	2027	Terminal Apron	Drainage - 6 inch Perforated Underdrain	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	30.54222222	0.74499	1.20042	0.00203	0.10918	0.10590	0.11093	0.00053	0.00085	0.00000	0.00008	0.00007	0.00008
1	2027	Terminal Apron	Dust Control	Water Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	1200	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.06084	0.15872	0.00058	0.01083	0.01050	0.00946

1	2027	Taxiways	Asphalt Placement	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	64.79625	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00198	0.00543	0.00001	0.00047	0.00046	0.00036
1	2027	Taxiways	Asphalt Placement	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	32.398125	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00164	0.00429	0.00002	0.00029	0.00028	0.00026
1	2027	Taxiways	Asphalt Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	32.398125	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00245	0.00386	0.00000	0.00039	0.00037	0.00028
1	2027	Taxiways	Asphalt Placement	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	32.398125	0.15374	2.06479	0.00188	0.01488	0.01443	0.04104	0.00009	0.00116	0.00000	0.00001	0.00001	0.00002
1	2027	Taxiways	Asphalt Placement	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	Diesel	25	0.59	41.4696	1.25977	3.16474	0.00233	0.14373	0.13941	0.29806	0.00085	0.00213	0.00000	0.00010	0.00009	0.00020
1	2027	Taxiways	Clearing and Grubbing	Chain Saw	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.7	70.8	1.76141	2.98969	0.00198	0.17094	0.16581	0.59666	0.00106	0.00180	0.00000	0.00010	0.00010	0.00036
1	2027	Taxiways	Clearing and Grubbing	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	70.8	0.98621	1.58143	0.00184	0.15801	0.15327	0.09548	0.00331	0.00531	0.00001	0.00053	0.00051	0.00032
1	2027	Taxiways	Clearing and Grubbing	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	94.4	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00479	0.01249	0.00005	0.00085	0.00083	0.00074
1	2027	Taxiways	Concrete Placement	Air Compressor	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	86.3952	0.98621	1.58143	0.00184	0.15801	0.15327	0.09548	0.00404	0.00648	0.00001	0.00065	0.00063	0.00039
1	2027	Taxiways	Concrete Placement	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	Diesel	40	0.59	86.3952	0.29226	2.20067	0.00172	0.02877	0.02790	0.08977	0.00066	0.00495	0.00000	0.00006	0.00006	0.00020
1	2027	Taxiways	Concrete Placement	Concrete Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	159.98	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.01825	0.04761	0.00017	0.00325	0.00316	0.00233
1	2027	Taxiways	Concrete Placement	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	172.7904	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00528	0.01448	0.00002	0.00126	0.00122	0.00095
1	2027	Taxiways	Concrete Placement	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	259.1856	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.01314	0.03428	0.00013	0.00234	0.00227	0.00204
1	2027	Taxiways	Concrete Placement	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	86.3952	0.70931	1.26694	0.00135	0.12693	0.12312	0.18954	0.00697	0.01246	0.00001	0.00125	0.00121	0.00186
1	2027	Taxiways	Concrete Placement	Slip Form Paver	Pavers	Pavers175	Diesel	175	0.59	86.3952	0.57276	1.48703	0.00157	0.09699	0.09408	0.11600	0.00563	0.01462	0.00002	0.00095	0.00093	0.00114
1	2027	Taxiways	Concrete Placement	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	Diesel	25	0.59	86.3952	1.25977	3.16474	0.00233	0.14373	0.13941	0.29806	0.00177	0.00445	0.00000	0.00020	0.00020	0.00042
1	2027	Taxiways	Drainage - 24 inch SCPP	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	75.04	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00127	0.00353	0.00001	0.00030	0.00029	0.00022
1	2027	Taxiways	Drainage - 24 inch SCPP	Dump Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	75.04	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00380	0.00993	0.00004	0.00068	0.00066	0.00059
1	2027	Taxiways	Drainage - 24 inch SCPP	Excavator	Excavators	Excavators175	Diesel	175	0.59	75.04	0.12510	0.36678	0.00143	0.03048	0.02957	0.02094	0.00107	0.00313	0.00001	0.00025	0.00025	0.00018
1	2027	Taxiways	Drainage - 24 inch SCPP	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	75.04	0.70931	1.26694	0.00135	0.12693	0.12312	0.18954	0.00606	0.01082	0.00001	0.00108	0.00105	0.00162
1	2027	Taxiways	Drainage - 24 inch SCPP	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	75.04	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00229	0.00629	0.00001	0.00055	0.00052	0.00041
1	2027	Taxiways	Drainage - 24 inch SCPP	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	75.04	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00380	0.00993	0.00004	0.00068	0.00066	0.00059
1	2027	Taxiways	Drainage - 24 inch SCPP	Roller	Rollers	Rollers100	Diesel	100	0.59	75.04	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00569	0.00894	0.00001	0.00089	0.00087	0.00065
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Dump Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	41.68888889	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00211	0.00551	0.00002	0.00038	0.00036	0.00033
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	41.68888889	0.70931	1.26694	0.00135	0.12693	0.12312	0.18954	0.00337	0.00601	0.00001	0.00060	0.00058	0.00090
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	41.68888889	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00127	0.00349	0.00001	0.00030	0.00029	0.00023
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	41.68888889	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00211	0.00551	0.00002	0.00038	0.00036	0.00033
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Tractors/Loaders/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	41.68888889	0.74499	1.20042	0.00203	0.10918	0.10590	0.11093	0.00072	0.00116	0.00000	0.00011	0.00010	0.00011
1	2027	Taxiways	Dust Control	Water Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	2880	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.14602	0.38094	0.00139	0.02598	0.02521	0.02270
1	2027	Taxiways	Excavation (Borrow)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	143.992	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00243	0.00677	0.00002	0.00057	0.00055	0.00043
1	2027	Taxiways	Excavation (Borrow)	Pickup Truck (12 cy)	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	143.992	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00730	0.01905	0.00007	0.00130	0.00126	0.00113
1	2027	Taxiways	Excavation (Borrow)	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	143.992	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00730	0.01905	0.00007	0.00130	0.00126	0.00113
1	2027	Taxiways	Excavation (Borrow)	Roller	Rollers	Rollers100	Diesel	100	0.59	66.45784615	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00563	0.00792	0.00001	0.00079	0.00077	0.00058
1	2027	Taxiways	Excavation (Cut to Fill)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	107.994	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00182	0.00508	0.00002	0.00043	0.00041	0.00032
1	2027	Taxiways	Excavation (Cut to Fill)	Pickup Truck (12 cy)	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	107.994	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.01460	0.03809	0.00014	0.00260	0.00252	0.00227
1	2027	Taxiways	Excavation (Cut to Fill)	Excavator	Excavators	Excavators175	Diesel	175	0.59	86.3952	0.12510	0.36678	0.00143	0.03048	0.02957	0.02094	0.00123	0.00361	0.00001	0.00030	0.00029	0.00021
1	2027	Taxiways	Excavation (Cut to Fill)	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	86.3952	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00438	0.01143	0.00004	0.00078	0.00076	0.00068
1	2027	Taxiways	Excavation (Cut to Fill)	Roller	Rollers	Rollers100	Diesel	100	0.59	86.3952	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00655	0.01030	0.00001	0.00103	0.00100	0.00075
1	2027	Taxiways	Excavation (Cut to Fill)	Scraper	Scrapers	Scrapers600	Diesel	600	0.59	107.994	0.30090	0.71906	0.00134	0.04749	0.04606	0.04285	0.01268	0.03030	0.00006	0.00200	0.00194	0.00131
1	2027	Taxiways	Excavation (Topsoil Stripping)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	40.65647059	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00069	0.00191	0.00001	0.00016	0.00016	0.00012
1	2027	Taxiways	Fencing	Concrete Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	25.94444444	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00132	0.00343	0.00000	0.00023	0.00023	0.00020
1	2027	Taxiways	Fencing	Dump Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	103.7777778	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00526	0.01373	0.00005	0.00094	0.00091	0.00082
1	2027	Taxiways	Fencing	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	103.7777778	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00317	0.00870	0.00001	0.00075	0.00073	0.00057
1	2027	Taxiways	Fencing	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	103.7777778	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00526	0.01373	0.00005	0.00094	0.00091	0.00082
1	2027	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	103.7777778	0.15374	2.06479	0.00188	0.01488	0.01443	0.04104	0.00028	0.00372	0.00000	0.00003	0.00003	0.00006
1	2027	Taxiways	Fencing	Tractors/Loaders/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	103.7777778	0.74499	1.20042	0.00203	0.10918	0.10590	0.11093	0.00179	0.00288	0.00000	0.00026	0.00025	0.00027
1	2027	Taxiways	Grading	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	28.6325	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00048	0.00135	0.00000	0.00011	0.00011	0.00008
1	2027	Taxiways	Grading	Grader	Graders	Graders300	Diesel	300	0.59	28.6325	0.31512	0.92045	0.00138	0.05002	0.04852	0.07455	0.00176	0.00514	0.00001	0.00028	0.00027	0.00042
1	2027	Taxiways	Grading	Roller	Rollers	Rollers100	Diesel	100	0.59	28.6325	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00217	0.00341	0.00000	0.00034	0.00033	0.00025
1	2027	Taxiways	Hydroseeding	Hydroseeder	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	25.795	0.70451	1.49421	0.00154	0.10507	0.10192	0.09889	0.00709	0.01504	0.00002	0.00106	0.00103	0.00100
1	2027	Taxiways	Hydroseeding	Off-Road Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	25.795	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00131	0.00341	0.00001	0.00023	0.00023	0.00020
1	2027	Taxiways	Lighting	Dump Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	32.4666667	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00165	0.00429	0.00002	0.00029	0.00028	0.00026
1	2027	Taxiways	Lighting	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	32.4666667	0.70931	1.26694	0.00135	0.12693	0.12312	0.18954	0.00262	0.00468	0.00001	0.00047	0.00045	0.00070
1	2027	Taxiways	Lighting	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	32.4666667	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00099	0.00272	0.00000	0.00024	0.00023	0.00018
1	2027	Taxiways	Lighting	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	32.4666667	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00165	0.00429	0.00002	0.00029	0.00028	0.00026
1	2027	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	32.4666667	0.15374	2.06479	0.00188	0.01488	0.01443	0.04104	0.00009	0.00116	0.00000	0.00001	0.00001	0.00002
1	2027	Taxiways	Lighting	Tractors/Loaders/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	32.4666667	0.74499	1.20042	0.00203	0.10918	0.10590	0.11093	0.00056	0.00090	0.00000	0.00008	0.00008	0.00008
1	2027	Taxiways	Markings	Flatbed Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	533.7142857	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.02706	0.07059	0.00026	0.00482	0.00467	0.00421
1	2027	Taxiways	Markings	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	533.7142857	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.01630	0.04472	0.00007	0.00388	0.00376	0.00293
1	2027	Taxiways	Markings	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	533.7142857	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.02706	0.07059	0.00026	0.00482	0.00467	0.00421
1	2027	Taxiways	Soil Erosion/Sediment Control	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	23.6	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00072	0.00198	0.00000	0.00017	0.00017	0.00013
1	2027	Taxiways	Soil Erosion/Sediment Control	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	47.2	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00239	0.00624	0.00002	0.00043	0.00041	0.00037
1	2027	Taxiways	Soil Erosion/Sediment Control	Pumps	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	23.6	1.76141	2.98969	0.00198	0.17094	0.16581	0.59666	0.00022	0.00037	0.00000	0.00002	0.00002	0.00007
1	2027	Taxiways	Soil Erosion/Sediment Control	Tractors/Loaders/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	23.6	0.74499	1.20042	0.00203	0.10918	0.10590	0.11093	0.00041	0.00066	0.00000	0.00006	0.00006	0.00006
1	2027	Taxiways	Subbase Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	54.56526316	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00092	0.00256	0.00001	0.00021	0.00021	0.00016
1	2027	Taxiways	Subbase Placement	Dump Truck (12 cy)	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	183.9777778	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.01947	0.05079	0.00019	0.00346	0.00336	0.00303
1	2027	Taxiways	Subbase Placement	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	54.56526316	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00277	0.00722	0.00003	0.00049	0.00048	0.00043
1	2027	Taxiways	Subbase Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	53.16615385	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00403	0.00634	0.00001	0.00063	0.00061	0.00046
1	2027	Taxiways	Topsoil Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	63.628	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00107	0.00299	0.00001	0.00025	0.00024	0.00019
1	2027	Taxiways	Topsoil Placement	Dump Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	63.628	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00323	0.00842	0.00003	0.00057	0.00056	0.00050
1	2027	Taxiways	Topsoil Placement	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	63.628	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00323	0.00842	0.00003	0.00057	0.00056	0.00050
1	2027	Taxiways	Asphalt Placement	Asphalt Paver	Pavers	Pavers175	Diesel	175	0.59	30.594375	0.57276	1.48703	0.00157	0.09699	0.09408	0.11600	0.00199	0.00518	0.00001	0.00034	0.00033	0.00040
1	2027	Taxiways	Asphalt Placement	Dump Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	110.1876572	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00569	0.01457	0.00005	0.00099	0.00096	0.00087
1	2027	Taxiways	Asphalt Placement	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	61.18875	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00187	0.00513	0.00001	0.00044	0.00043	0.00034
1	2027	Taxiways	Asphalt Placement	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	30.594375	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00165	0.00405	0.00001	0.00028	0.00027	0.00024
1	2027	Taxiways	Asphalt Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	30.594375	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00232	0.00365	0.00000	0.00036	0.00035	0.00027
1	2027	Taxiways	Asphalt Placement	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	30.594375	0.15374	2.06479	0.00188	0.01488	0.01443	0.04104	0.00008	0.00110	0.00000	0.00001	0.00001	0.00002
1	2027	Taxiways	Asphalt Placement	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	Diesel	25	0.59	39.1608	1.25977	3.16474	0.00233	0.14373	0.13941	0.29806	0.00080	0.00202	0.00000	0.00009	0.00009	0.00019
1	2027	Taxiways	Clearing and Grubbing	Chain Saw	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.7	67.2	1.76141	2.98969	0.00198	0.17094	0.16581	0.59666	0.00100	0.00171	0.00000	0.00010	0.00009	0.00034
1	2027	Taxiways	Clearing and Grubbing	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	67.2	0.98621	1.58143	0.00184	0.15801	0.15327	0.09548	0.00314	0.00504	0.00001	0.00050	0.00049	0.00030
1	2027	Taxiways	Clearing and Grubbing	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	89.6	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00454	0.01185	0.00004	0.00081	0.00078	0.00071
1	2027	Taxiways	Drainage - 24 inch SCPP	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	70.88	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00119	0.00333	0.00001	0.00028	0.00027	0.00021
1	2027	Taxiways	Drainage - 24 inch SCPP	Dump Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	70.88	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00359	0.00938	0.00003	0.00064	0.00062	0.00056
1	2027	Taxiways	Drainage - 24 inch SCPP	Excavator	Excavators	Excavators175	Diesel	175	0.59	70.88	0.12510	0.36678	0.00143	0.03048	0.02957	0.02094	0.00101	0.00296	0.00001	0.00025	0.00024	0.00017
1	2027	Taxiways	Drainage - 24 inch SCPP	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	70.88	0.70931	1.26694	0.00135	0.12693	0.12312	0.18954	0.00572	0.01022	0.00001	0.00102	0.00099	0.00153
1	2027	Taxiways	Drainage - 24 inch SCPP	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	70.88	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00216	0.00594	0.00001	0.00052	0.00050	0.00039
1	2027	Taxiways	Drainage - 24 inch SCPP	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	70.88	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00359	0.00938	0.00003	0.00064	0.00062	0.00056
1	2027	Taxiways	Drainage - 24 inch SCPP	Roller	Rollers	Rollers100	Diesel	100	0.59	70.88	1.16490	1.83280	0.00191	0.18322	0.17772	0.13391	0.00537	0.00845	0.00001	0.00084	0.00082	0.00062
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Dump Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	39.37777778	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00200	0.00521	0.00002	0.00036	0.00034	0.00031
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	39.37777778	0.70931	1.26694	0.00135	0.12693	0.12312	0.18954	0.00318	0.00568	0.00001	0.00057	0.00055	0.00085
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	39.37777778	0.36851	1.01022	0.00155	0.08761	0.08499	0.06614	0.00120	0.00330	0.00001	0.00028	0.00028	0.00022
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Pickup Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	39.37777778	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00200	0.00521	0.00002	0.00036	0.00034	0.00031
1	2027	Taxiways	Drainage - 6 inch Perforated Underdrain	Tractors/Loaders/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	39.37777778	0.74499	1.20042	0.00203	0.10918	0.10590	0.11093	0.00068	0.00109	0.00000	0.00010	0.00010	0.00010
1	2027	Taxiways	Dust Control	Water Truck	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	2880	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.14602	0.38094	0.00139	0.02598	0.02521	0.02270
1	2027	Taxiways	Excavation (Borrow)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	135.9746667	0.14813	0.41291	0.00137	0.03461	0.03357	0.02607	0.00229	0.00639	0.00002	0.00054	0.00052	0.00040
1	2027	Taxiways	Excavation (Borrow)	Dump Truck (12 cy)	Off-Highway Trucks	Off-Highway Trucks600	Diesel	600	0.59	135.9746667	0.12993	0.33896	0.00124	0.02312	0.02243	0.02020	0.00689	0.01799	0.00007	0.00123	0.00119	0.00107
1	2027	Taxiways	Excavation (Borrow)	Pickup Truck	Off-Highway Trucks	Off-Highway Truc

1	Terminal Apron	Asphalt Pl	Roller	Diesel	
1	Terminal Apron	Asphalt Pl	Skid Steer Loader	Diesel	
1	Terminal Apron	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	
1	Terminal Apron	Clearing a	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Terminal Apron	Clearing a	Chipper/Stump Grinder	Diesel	
1	Terminal Apron	Clearing a	Pickup Truck	Diesel	
1	Terminal Apron	Drainage -	Dozer	Diesel	
1	Terminal Apron	Drainage -	Dump Truck	Diesel	
1	Terminal Apron	Drainage -	Excavator	Diesel	
1	Terminal Apron	Drainage -	Loader	Diesel	
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	
1	Terminal Apron	Drainage -	Roller	Diesel	
1	Terminal Apron	Drainage -	Dump Truck	Diesel	
1	Terminal Apron	Drainage -	Loader	Diesel	
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	
1	Terminal Apron	Drainage -	Tractors/Loader/Backhoe	Diesel	
1	Terminal Apron	Dust Contr	Water Truck	Diesel	
1	Terminal Apron	Excavatio	Dozer	Diesel	
1	Terminal Apron	Excavatio	Dump Truck (12 cy)	Diesel	
1	Terminal Apron	Excavatio	Pickup Truck	Diesel	
1	Terminal Apron	Excavatio	Roller	Diesel	
1	Terminal Apron	Excavatio	Dozer	Diesel	
1	Terminal Apron	Excavatio	Dump Truck (12 cy)	Diesel	
1	Terminal Apron	Excavatio	Excavator	Diesel	
1	Terminal Apron	Excavatio	Pickup Truck	Diesel	
1	Terminal Apron	Excavatio	Roller	Diesel	
1	Terminal Apron	Excavatio	Scraper	Diesel	
1	Terminal Apron	Excavatio	Dozer	Diesel	
1	Terminal Apron	Fencing	Concrete Truck	Diesel	
1	Terminal Apron	Fencing	Dump Truck	Diesel	
1	Terminal Apron	Fencing	Other General Equipment	Diesel	
1	Terminal Apron	Fencing	Pickup Truck	Diesel	
1	Terminal Apron	Fencing	Skid Steer Loader	Diesel	
1	Terminal Apron	Fencing	Tractors/Loader/Backhoe	Diesel	
1	Terminal Apron	Grading	Dozer	Diesel	
1	Terminal Apron	Grading	Grader	Diesel	
1	Terminal Apron	Grading	Roller	Diesel	
1	Terminal Apron	Hydroseed	Hydroseeder	Diesel	
1	Terminal Apron	Hydroseed	Off-Road Truck	Diesel	
1	Terminal Apron	Lighting	Dump Truck	Diesel	
1	Terminal Apron	Lighting	Loader	Diesel	
1	Terminal Apron	Lighting	Other General Equipment	Diesel	
1	Terminal Apron	Lighting	Pickup Truck	Diesel	
1	Terminal Apron	Lighting	Skid Steer Loader	Diesel	
1	Terminal Apron	Lighting	Tractors/Loader/Backhoe	Diesel	
1	Terminal Apron	Markings	Flatbed Truck	Diesel	
1	Terminal Apron	Markings	Other General Equipment	Diesel	
1	Terminal Apron	Markings	Pickup Truck	Diesel	
1	Terminal Apron	Sealing/Fu	Distributing Tanker	Diesel	
1	Terminal Apron	Sealing/Fu	Other General Equipment	Diesel	
1	Terminal Apron	Sealing/Fu	Pickup Truck	Diesel	
1	Terminal Apron	Soil Erosio	Other General Equipment	Diesel	
1	Terminal Apron	Soil Erosio	Pickup Truck	Diesel	
1	Terminal Apron	Soil Erosio	Pumps	Diesel	
1	Terminal Apron	Soil Erosio	Tractors/Loader/Backhoe	Diesel	
1	Terminal Apron	Subbase P	Dozer	Diesel	
1	Terminal Apron	Subbase P	Dump Truck (12 cy)	Diesel	
1	Terminal Apron	Subbase P	Pickup Truck	Diesel	
1	Terminal Apron	Subbase P	Roller	Diesel	
1	Terminal Apron	Topsoil Pla	Dozer	Diesel	
1	Terminal Apron	Topsoil Pla	Dump Truck	Diesel	
1	Terminal Apron	Topsoil Pla	Pickup Truck	Diesel	
2	Building - 10000 sqft - 1 story	Concrete F	Backhoe	Diesel	
2	Building - 10000 sqft - 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	
2	Building - 10000 sqft - 1 story	Concrete F	Fork Truck	Diesel	
2	Building - 10000 sqft - 1 story	Concrete F	Tool Truck	Diesel	
2	Building - 10000 sqft - 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	
2	Building - 10000 sqft - 1 story	Constructi	Survey Crew Trucks	Diesel	
2	Building - 10000 sqft - 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	
2	Building - 10000 sqft - 1 story	Exterior W	Fork Truck	Diesel	
2	Building - 10000 sqft - 1 story	Exterior W	Man Lift	Diesel	
2	Building - 10000 sqft - 1 story	Exterior W	Tool Truck	Diesel	
2	Building - 10000 sqft - 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	
2	Building - 10000 sqft - 1 story	Interior Bu	Fork Truck	Diesel	
2	Building - 10000 sqft - 1 story	Interior Bu	Man Lift	Diesel	
2	Building - 10000 sqft - 1 story	Interior Bu	Tool Truck	Diesel	
2	Building - 10000 sqft - 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
2	Building - 10000 sqft - 1 story	Roofing	High Lift	Diesel	
2	Building - 10000 sqft - 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	
2	Building - 10000 sqft - 1 story	Roofing	Material Deliveries	Diesel	
2	Building - 10000 sqft - 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	
2	Building - 10000 sqft - 1 story	Security &	High Lift	Diesel	
2	Building - 10000 sqft - 1 story	Security &	Tool Truck	Diesel	
2	Building - 10000 sqft - 1 story	Structural	40 Ton Crane	Diesel	
2	Building - 10000 sqft - 1 story	Structural	Fork Truck	Diesel	
2	Building - 10000 sqft - 1 story	Structural	Tool Truck	Diesel	
2	Building - 10000 sqft - 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	
3	Building - 10000 sqft - 1 story	Concrete F	Backhoe	Diesel	
3	Building - 10000 sqft - 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	
3	Building - 10000 sqft - 1 story	Concrete F	Fork Truck	Diesel	
3	Building - 10000 sqft - 1 story	Concrete F	Tool Truck	Diesel	
3	Building - 10000 sqft - 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft - 1 story	Constructi	Survey Crew Trucks	Diesel	
3	Building - 10000 sqft - 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	
3	Building - 10000 sqft - 1 story	Exterior W	Fork Truck	Diesel	
3	Building - 10000 sqft - 1 story	Exterior W	Man Lift	Diesel	
3	Building - 10000 sqft - 1 story	Exterior W	Tool Truck	Diesel	
3	Building - 10000 sqft - 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft - 1 story	Interior Bu	Fork Truck	Diesel	
3	Building - 10000 sqft - 1 story	Interior Bu	Man Lift	Diesel	
3	Building - 10000 sqft - 1 story	Interior Bu	Tool Truck	Diesel	
3	Building - 10000 sqft - 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft - 1 story	Roofing	High Lift	Diesel	
3	Building - 10000 sqft - 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	
3	Building - 10000 sqft - 1 story	Roofing	Material Deliveries	Diesel	
3	Building - 10000 sqft - 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	
3	Building - 10000 sqft - 1 story	Security &	High Lift	Diesel	
3	Building - 10000 sqft - 1 story	Security &	Tool Truck	Diesel	
3	Building - 10000 sqft - 1 story	Structural	40 Ton Crane	Diesel	
3	Building - 10000 sqft - 1 story	Structural	Fork Truck	Diesel	
3	Building - 10000 sqft - 1 story	Structural	Tool Truck	Diesel	
3	Building - 10000 sqft - 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	
4	Parking Structure - 240000 s	Asphalt Pa	Asphalt Paver	Diesel	
4	Parking Structure - 240000 s	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	
4	Parking Structure - 240000 s	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	
4	Parking Structure - 240000 s	Concrete F	40 Ton Rough Terrain Crane	Diesel	
4	Parking Structure - 240000 s	Concrete F	Backhoe	Diesel	
4	Parking Structure - 240000 s	Concrete F	Caisson Drilling Rig	Diesel	
4	Parking Structure - 240000 s	Concrete F	Concrete Pump	Diesel	
4	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	
4	Parking Structure - 240000 s	Concrete F	Excavator	Diesel	
4	Parking Structure - 240000 s	Concrete F	Fork Truck	Diesel	
4	Parking Structure - 240000 s	Concrete F	Front Loader	Diesel	
4	Parking Structure - 240000 s	Concrete F	Tool Truck	Diesel	
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Material Delivery	Diesel	
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Stone Delivery	Diesel	
4	Parking Structure - 240000 s	Concrete F	Trencher for U/G Piping	Diesel	
4	Parking Structure - 240000 s	Concrete F	90 Ton Crane	Diesel	
4	Parking Structure - 240000 s	Concrete F	Concrete Boom Pump	Diesel	
4	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Steel Deliveries	Diesel	
4	Parking Structure - 240000 s	Concrete F	Trowel Machines (4) machines	Diesel	
4	Parking Structure - 240000 s	Constructi	Survey Crew Trucks	Diesel	
4	Parking Structure - 240000 s	Constructi	Tractor Trailers Temp Fac.	Diesel	
4	Parking Structure - 240000 s	Lights and	Forklift	Diesel	
4	Parking Structure - 240000 s	Lights and	High Lift	Diesel	
4	Parking Structure - 240000 s	Lights and	Tool Truck	Diesel	
4	Parking Structure - 240000 s	Lights and	Trencher	Diesel	
4	Parking Structure - 240000 s	Precast Cc	40 Ton Rough Terrain	Diesel	
4	Parking Structure - 240000 s	Precast Cc	Fork Truck	Diesel	
4	Parking Structure - 240000 s	Precast Cc	Tractor Trailer- Material Delivery	Diesel	
4	Parking Structure - 240000 s	Security &	High Lift	Diesel	
4	Parking Structure - 240000 s	Security &	Tool Truck	Diesel	
4	Parking Structure - 240000 s	Site Prep/I	Front Loader	Diesel	
4	Parking Structure - 240000 s	Site Prep/I	Tractor Trailer with Boom Hoist- Curbs Del	Diesel	
4	Parking Structure - 240000 s	Site Prep/I	Truck for Topsoil & Seed Del&Spread	Diesel	
5	Building - 100000 sqft - 10 st	Concrete F	Backhoe	Diesel	
5	Building - 100000 sqft - 10 st	Concrete F	Concrete Pump	Diesel	
5	Building - 100000 sqft - 10 st	Concrete F	Concrete Ready Mix Trucks	Diesel	
5	Building - 100000 sqft - 10 st	Concrete F	Excavator	Diesel	
5	Building - 100000 sqft - 10 st	Concrete F	Fork Truck	Diesel	
5	Building - 100000 sqft - 10 st	Concrete F	Tool Truck	Diesel	
5	Building - 100000 sqft - 10 st	Concrete F	Tractor Trailer- Material Delivery	Diesel	
5	Building - 100000 sqft - 10 st	Constructi	Survey Crew Trucks	Diesel	
5	Building - 100000 sqft - 10 st	Constructi	Tractor Trailers Temp Fac.	Diesel	
5	Building - 100000 sqft - 10 st	Exterior W	Fork Truck	Diesel	
5	Building - 100000 sqft - 10 st	Exterior W	Generator	Diesel	
5	Building - 100000 sqft - 10 st	Exterior W	Grout Mixer	Diesel	
5	Building - 100000 sqft - 10 st	Exterior W	Grout Wheel Truck	Diesel	
5	Building - 100000 sqft - 10 st	Exterior W	Man Lift	Diesel	
5	Building - 100000 sqft - 10 st	Exterior W	Tool Truck	Diesel	
5	Building - 100000 sqft - 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	
5	Building - 100000 sqft - 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	
5	Building - 100000 sqft - 10 st	Interior Bu	Fork Truck	Diesel	
5	Building - 100000 sqft - 10 st	Interior Bu	Man Lift	Diesel	
5	Building - 100000 sqft - 10 st	Interior Bu	Tool Truck	Diesel	
5	Building - 100000 sqft - 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
5	Building - 100000 sqft - 10 st	Roofing	High Lift	Diesel	
5	Building - 100000 sqft - 10 st	Roofing	Man Lift	Diesel	
5	Building - 100000 sqft - 10 st	Roofing	Material Deliveries	Diesel	
5	Building - 100000 sqft - 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	
5	Building - 100000 sqft - 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	
5	Building - 100000 sqft - 10 st	Security &	High Lift	Diesel	
5	Building - 100000 sqft - 10 st	Security &	Tool Truck	Diesel	
5	Building - 100000 sqft - 10 st	Structural	90 Ton Crane	Diesel	
5	Building - 100000 sqft - 10 st	Structural	Concrete Pump	Diesel	
5	Building - 100000 sqft - 10 st	Structural	Concrete Truck	Diesel	
5	Building - 100000 sqft - 10 st	Structural	Fork Truck	Diesel	
5	Building - 100000 sqft - 10 st	Structural	Tool Truck	Diesel	
5	Building - 100000 sqft - 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	
5	Building - 100000 sqft - 10 st	Structural	Trowel Machine	Diesel	
5	Building - 100000 sqft - 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	

Overall Size

Scen	Project	Project Siz	User Input		Unit
1	Terminal Apron	What is th		17.355	$ Million(s)
1	Terminal Apron	What is th		1708	Feet
1	Terminal Apron	What is th		100	Feet
2	Building - 10000 sqft - 1 story	What is th		0.293	$ Million(s)
3	Building - 10000 sqft - 1 story	What is th		15.88	$ Million(s)
4	Parking Structure - 240000 s	What is th		76.007	$ Million(s)
5	Building - 100000 sqft - 10 st	What is th		62.294	$ Million(s)

Size Detail (Estimated based on engineering experience)

Scen	Project	Constructi	Default Activity Size	Unit	User Activity Size		
1	Terminal Apron	Asphalt Pl	18958.8	Square Yards		3.92	0.20776
1	Terminal Apron	Clearing a	4.3	Acres			
1	Terminal Apron	Drainage -	1718	Linear Feet			
1	Terminal Apron	Drainage -	3436	Linear Feet			
1	Terminal Apron	Dust Contr	150	Days			
1	Terminal Apron	Excavatio	7899.5	Cubic Yards			
1	Terminal Apron	Excavatio	7899.5	Cubic Yards			
1	Terminal Apron	Excavatio	18958.8	Square Yards			
1	Terminal Apron	Fencing	1708	Linear Feet			
1	Terminal Apron	Grading	20976.8	Square Yards			
1	Terminal Apron	Hydroseed	188980	Square Feet			
1	Terminal Apron	Lighting	3616	Linear Feet			
1	Terminal Apron	Markings	170800	Square Feet			
1	Terminal Apron	Sealing/Fu	18958.8	Square Yards			
1	Terminal Apron	Soil Erosio	4.3	Acres			
1	Terminal Apron	Subbase P	18958.8	Square Yards			
1	Terminal Apron	Subbase P	6319.6	Cubic Yards			
1	Terminal Apron	Topsoil Pla	3496.1	Cubic Yards			

Activity: Non-Road (Estimated based on engineering experience)

Scen	Project	Constructi	Equipment	Fuel Type	Activity Size	Activity Rate	Default Activity	Activity Unit	User Activity Data	
1	Terminal Apron	Asphalt Pl	Asphalt Paver	Diesel	18958.80 SY	8 Hours per 6400.00 SY	23.7	hours		
1	Terminal Apron	Asphalt Pl	Dump Truck	Diesel	18958.80 SY	8 Hours per 1777.00 SY	85.35	hours		
1	Terminal Apron	Asphalt Pl	Other General Equipment	Diesel	18958.80 SY	16 Hours per 6400.00 SY	47.4	hours		
1	Terminal Apron	Asphalt Pl	Pickup Truck	Diesel	18958.80 SY	8 Hours per 6400.00 SY	23.7	hours		
1	Terminal Apron	Asphalt Pl	Roller	Diesel	18958.80 SY	8 Hours per 6400.00 SY	23.7	hours		
1	Terminal Apron	Asphalt Pl	Skid Steer Loader	Diesel	18958.80 SY	8 Hours per 6400.00 SY	23.7	hours		
1	Terminal Apron	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	18958.80 SY	8 Hours per 5000.00 SY	30.33	hours		
1	Terminal Apron	Clearing a	Chain Saw	Diesel	4.30 Acre	12 Hours per 1.00 Acre	51.6	hours		*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Terminal Apron	Clearing a	Chipper/Stump Grinder	Diesel	4.30 Acre	12 Hours per 1.00 Acre	51.6	hours		
1	Terminal Apron	Clearing a	Pickup Truck	Diesel	4.30 Acre	16 Hours per 1.00 Acre	68.8	hours		
1	Terminal Apron	Drainage -	Dozer	Diesel	1718.00 LF	8 Hours per 250.00 LF	54.98	hours		
1	Terminal Apron	Drainage -	Dump Truck	Diesel	1718.00 LF	8 Hours per 250.00 LF	54.98	hours		
1	Terminal Apron	Drainage -	Excavator	Diesel	1718.00 LF	8 Hours per 250.00 LF	54.98	hours		
1	Terminal Apron	Drainage -	Loader	Diesel	1718.00 LF	8 Hours per 250.00 LF	54.98	hours		
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	1718.00 LF	8 Hours per 250.00 LF	54.98	hours		
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	1718.00 LF	8 Hours per 250.00 LF	54.98	hours		
1	Terminal Apron	Drainage -	Roller	Diesel	1718.00 LF	8 Hours per 250.00 LF	54.98	hours		
1	Terminal Apron	Drainage -	Dump Truck	Diesel	3436.00 LF	8 Hours per 900.00 LF	30.54	hours		
1	Terminal Apron	Drainage -	Loader	Diesel	3436.00 LF	8 Hours per 900.00 LF	30.54	hours		
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	3436.00 LF	8 Hours per 900.00 LF	30.54	hours		
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	3436.00 LF	8 Hours per 900.00 LF	30.54	hours		
1	Terminal Apron	Drainage -	Tractors/Loader/Backhoe	Diesel	3436.00 LF	8 Hours per 900.00 LF	30.54	hours		
1	Terminal Apron	Dust Contr	Water Truck	Diesel	150.00 Day	8 Hours per 1.00 Day	1200	hours		
1	Terminal Apron	Excavatio	Dozer	Diesel	7899.50 CY	8 Hours per 600.00 CY	105.33	hours		
1	Terminal Apron	Excavatio	Dump Truck (12 cy)	Diesel	7899.50 CY	8 Hours per 600.00 CY	105.33	hours		
1	Terminal Apron	Excavatio	Pickup Truck	Diesel	7899.50 CY	8 Hours per 600.00 CY	105.33	hours		
1	Terminal Apron	Excavatio	Roller	Diesel	7899.50 CY	8 Hours per 1300.00 CY	48.61	hours		
1	Terminal Apron	Excavatio	Dozer	Diesel	7899.50 CY	8 Hours per 800.00 CY	79	hours		
1	Terminal Apron	Excavatio	Dump Truck (12 cy)	Diesel	7899.50 CY	8 Hours per 300.00 CY	210.65	hours		
1	Terminal Apron	Excavatio	Excavator	Diesel	7899.50 CY	8 Hours per 1000.00 CY	63.2	hours		
1	Terminal Apron	Excavatio	Pickup Truck	Diesel	7899.50 CY	8 Hours per 1000.00 CY	63.2	hours		
1	Terminal Apron	Excavatio	Roller	Diesel	7899.50 CY	8 Hours per 1000.00 CY	63.2	hours		
1	Terminal Apron	Excavatio	Scraper	Diesel	7899.50 CY	8 Hours per 800.00 CY	79	hours		
1	Terminal Apron	Excavatio	Dozer	Diesel	18958.80 SY	8 Hours per 5100.00 SY	29.74	hours		
1	Terminal Apron	Fencing	Concrete Truck	Diesel	1708.00 LF	2 Hours per 180.00 LF	18.98	hours		
1	Terminal Apron	Fencing	Dump Truck	Diesel	1708.00 LF	8 Hours per 180.00 LF	75.91	hours		
1	Terminal Apron	Fencing	Other General Equipment	Diesel	1708.00 LF	8 Hours per 180.00 LF	75.91	hours		
1	Terminal Apron	Fencing	Pickup Truck	Diesel	1708.00 LF	8 Hours per 180.00 LF	75.91	hours		
1	Terminal Apron	Fencing	Skid Steer Loader	Diesel	1708.00 LF	8 Hours per 180.00 LF	75.91	hours		
1	Terminal Apron	Fencing	Tractors/Loader/Backhoe	Diesel	1708.00 LF	8 Hours per 180.00 LF	75.91	hours		
1	Terminal Apron	Grading	Dozer	Diesel	20976.80 SY	8 Hours per 8000.00 SY	20.98	hours		
1	Terminal Apron	Grading	Grader	Diesel	20976.80 SY	8 Hours per 8000.00 SY	20.98	hours		
1	Terminal Apron	Grading	Roller	Diesel	20976.80 SY	8 Hours per 8000.00 SY	20.98	hours		
1	Terminal Apron	Hydroseed	Hydroseeder	Diesel	188980.00 SF	8 Hours per 80000.00 SF	18.9	hours		
1	Terminal Apron	Hydroseed	Off-Road Truck	Diesel	188980.00 SF	8 Hours per 80000.00 SF	18.9	hours		
1	Terminal Apron	Lighting	Dump Truck	Diesel	3616.00 LF	8 Hours per 1200.00 LF	24.11	hours		
1	Terminal Apron	Lighting	Loader	Diesel	3616.00 LF	8 Hours per 1200.00 LF	24.11	hours		
1	Terminal Apron	Lighting	Other General Equipment	Diesel	3616.00 LF	8 Hours per 1200.00 LF	24.11	hours		
1	Terminal Apron	Lighting	Pickup Truck	Diesel	3616.00 LF	8 Hours per 1200.00 LF	24.11	hours		
1	Terminal Apron	Lighting	Skid Steer Loader	Diesel	3616.00 LF	8 Hours per 1200.00 LF	24.11	hours		
1	Terminal Apron	Lighting	Tractors/Loader/Backhoe	Diesel	3616.00 LF	8 Hours per 1200.00 LF	24.11	hours		
1	Terminal Apron	Markings	Flatbed Truck	Diesel	170800.00 SF	8 Hours per 3500.00 SF	390.4	hours		
1	Terminal Apron	Markings	Other General Equipment	Diesel	170800.00 SF	8 Hours per 3500.00 SF	390.4	hours		
1	Terminal Apron	Markings	Pickup Truck	Diesel	170800.00 SF	8 Hours per 3500.00 SF	390.4	hours		
1	Terminal Apron	Sealing/Fu	Distributing Tanker	Diesel	18958.80 SY	8 Hours per 3000.00 SY	50.56	hours		
1	Terminal Apron	Sealing/Fu	Other General Equipment	Diesel	18958.80 SY	8 Hours per 3000.00 SY	50.56	hours		
1	Terminal Apron	Sealing/Fu	Pickup Truck	Diesel	18958.80 SY	8 Hours per 3000.00 SY	50.56	hours		
1	Terminal Apron	Soil Erosio	Other General Equipment	Diesel	4.30 Acre	4 Hours per 1.00 Acre	17.2	hours		
1	Terminal Apron	Soil Erosio	Pickup Truck	Diesel	4.30 Acre	8 Hours per 1.00 Acre	34.4	hours		
1	Terminal Apron	Soil Erosio	Pumps	Diesel	4.30 Acre	4 Hours per 1.00 Acre	17.2	hours		
1	Terminal Apron	Soil Erosio	Tractors/Loader/Backhoe	Diesel	4.30 Acre	4 Hours per 1.00 Acre	17.2	hours		
1	Terminal Apron	Subbase P	Dozer	Diesel	18958.80 SY	8 Hours per 3800.00 SY	39.91	hours		
1	Terminal Apron	Subbase P	Dump Truck (12 cy)	Diesel	6319.60 CY	8 Hours per 180.00 CY	280.87	hours		
1	Terminal Apron	Subbase P	Pickup Truck	Diesel	18958.80 SY	8 Hours per 3800.00 SY	39.91	hours		
1	Terminal Apron	Subbase P	Roller	Diesel	6319.60 CY	8 Hours per 1300.00 CY	38.89	hours		
1	Terminal Apron	Topsoil Pla	Dozer	Diesel	3496.10 CY	8 Hours per 600.00 CY	46.61	hours		
1	Terminal Apron	Topsoil Pla	Dump Truck	Diesel	3496.10 CY	8 Hours per 600.00 CY	46.61	hours		
1	Terminal Apron	Topsoil Pla	Pickup Truck	Diesel	3496.10 CY	8 Hours per 600.00 CY	46.61	hours		
2	Building - 10000 sqft - 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
2	Building - 10000 sqft - 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
2	Building - 10000 sqft - 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
2	Building - 10000 sqft - 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
2	Building - 10000 sqft - 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
2	Building - 10000 sqft - 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours		
2	Building - 10000 sqft - 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours		
2	Building - 10000 sqft - 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
2	Building - 10000 sqft - 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
2	Building - 10000 sqft - 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
2	Building - 10000 sqft - 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
2	Building - 10000 sqft - 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
2	Building - 10000 sqft - 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
2	Building - 10000 sqft - 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
2	Building - 10000 sqft - 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
2	Building - 10000 sqft - 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
2	Building - 10000 sqft - 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
2	Building - 10000 sqft - 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours		
2	Building - 10000 sqft - 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours		
2	Building - 10000 sqft - 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
2	Building - 10000 sqft - 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
2	Building - 10000 sqft - 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
2	Building - 10000 sqft - 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
2	Building - 10000 sqft - 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
2	Building - 10000 sqft - 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
3	Building - 10000 sqft - 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
3	Building - 10000 sqft - 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
3	Building - 10000 sqft - 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
3	Building - 10000 sqft - 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
3	Building - 10000 sqft - 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
3	Building - 10000 sqft - 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours		
3	Building - 10000 sqft - 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours		
3	Building - 10000 sqft - 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
3	Building - 10000 sqft - 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
3	Building - 10000 sqft - 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
3	Building - 10000 sqft - 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
3	Building - 10000 sqft - 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
3	Building - 10000 sqft - 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
3	Building - 10000 sqft - 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft - 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft - 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft - 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft - 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours		
3	Building - 10000 sqft - 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours		
3	Building - 10000 sqft - 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
3	Building - 10000 sqft - 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
3	Building - 10000 sqft - 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
3	Building - 10000 sqft - 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
3	Building - 10000 sqft - 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
3	Building - 10000 sqft - 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
4	Parking Structure - 240000 s	Asphalt Pa	Asphalt Paver	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours		
4	Parking Structure - 240000 s	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours		
4	Parking Structure - 240000 s	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	240000.00 SF	0.00025 Hours per 1.00 SF	60	hours		
4	Parking Structure - 240000 s	Concrete F	40 Ton Rough Terrain Crane	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours		
4	Parking Structure - 240000 s	Concrete F	Backhoe	Diesel	240000.00 SF	0.00167 Hours per 1.00 SF	400.8	hours		
4	Parking Structure - 240000 s	Concrete F	Caisson Drilling Rig	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours		
4	Parking Structure - 240000 s	Concrete F	Concrete Pump	Diesel	240000.00 SF	0.000375 Hours per 1.00 SF	90	hours		
4	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	240000.00 SF	0.00125 Hours per 1.00 SF	300	hours		
4	Parking Structure - 240000 s	Concrete F	Excavator	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours		
4	Parking Structure - 240000 s	Concrete F	Fork Truck	Diesel	240000.00 SF	0.00167 Hours per 1.00 SF	400.8	hours		
4	Parking Structure - 240000 s	Concrete F	Front Loader	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours		
4	Parking Structure - 240000 s	Concrete F	Tool Truck	Diesel	240000.00 SF	0.00042 Hours per 1.00 SF	100.8	hours		
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Material Delivery	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours		
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Stone Delivery	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours		
4	Parking Structure - 240000 s	Concrete F	Trencher for U/G Piping	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours		
4	Parking Structure - 240000 s	Concrete F	90 Ton Crane	Diesel	240000.00 SF	0.002 Hours per 1.00 SF	480	hours		
4	Parking Structure - 240000 s	Concrete F	Concrete Boom Pump	Diesel	240000.00 SF	0.0015 Hours per 1.00 SF	360	hours		
4	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	240000.00 SF	0.0015 Hours per 1.00 SF	360	hours		
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Steel Deliveries	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours		
4	Parking Structure - 240000 s	Concrete F	Trowel Machines (4) machines	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours		
4	Parking Structure - 240000 s	Constructi	Survey Crew Trucks	Diesel	240000.00 SF	0.00004 Hours per 1.00 SF	9.6	hours		
4	Parking Structure - 240000 s	Constructi	Tractor Trailers Temp Fac.	Diesel	240000.00 SF	0.00002 Hours per 1.00 SF	4.8	hours		
4	Parking Structure - 240000 s	Lights and	Forklift	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours		
4	Parking Structure - 240000 s	Lights and	High Lift	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours		
4	Parking Structure - 240000 s	Lights and	Tool Truck	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours		
4	Parking Structure - 240000 s	Lights and	Trencher	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours		
4	Parking Structure - 240000 s	Precast Cc	40 Ton Rough Terrain	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours		
4	Parking Structure - 240000 s	Precast Cc	Fork Truck	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours		
4	Parking Structure - 240000 s	Precast Cc	Tractor Trailer- Material Delivery	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours		
4	Parking Structure - 240000 s	Security &	High Lift	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours		
4	Parking Structure - 240000 s	Security &	Tool Truck	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours		
4	Parking Structure - 240000 s	Site Prep/I	Front Loader	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours		
4	Parking Structure - 240000 s	Site Prep/I	Tractor Trailer with Boom Hoist- Curbs Del	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours		
4	Parking Structure - 240000 s	Site Prep/I	Truck for Topsoil & Seed Del&Spread	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours		
5	Building - 100000 sqft - 10 st	Concrete F	Backhoe	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours		
5	Building - 100000 sqft - 10 st	Concrete F	Concrete Pump	Diesel	100000.00 SF	0.0018 Hours per 1.00 SF	180	hours		
5	Building - 100000 sqft - 10 st	Concrete F	Concrete Ready Mix Trucks	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours		
5	Building - 100000 sqft - 10 st	Concrete F	Excavator	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours		
5	Building - 100000 sqft - 10 st	Concrete F	Fork Truck	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours		
5	Building - 100000 sqft - 10 st	Concrete F	Tool Truck	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours		
5	Building - 100000 sqft - 10 st	Concrete F	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours		
5	Building - 100000 sqft - 10 st	Constructi	Survey Crew Trucks	Diesel	100000.00 SF	0.0001 Hours per 1.00 SF	10	hours		
5	Building - 100000 sqft - 10 st	Constructi	Tractor Trailers Temp Fac.	Diesel	100000.00 SF	0.00004 Hours per 1.00 SF	4	hours		
5	Building - 100000 sqft - 10 st	Exterior W	Fork Truck	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours		
5	Building - 100000 sqft - 10 st	Exterior W	Generator	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours		
5	Building - 100000 sqft - 10 st	Exterior W	Grout Mixer	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours		
5	Building - 100000 sqft - 10 st	Exterior W	Grout Wheel Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours		
5	Building - 100000 sqft - 10 st	Exterior W	Man Lift	Diesel	100000.00 SF	0.0168 Hours per 1.00 SF	1680	hours		
5	Building - 100000 sqft - 10 st	Exterior W	Tool Truck	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours		
5	Building - 100000 sqft - 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours		
5	Building - 100000 sqft - 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours		

5	Building - 100000 sqft- 10 st	Interior Bu	Fork Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours
5	Building - 100000 sqft- 10 st	Interior Bu	Man Lift	Diesel	100000.00 SF	0.032 Hours per 1.00 SF	3200	hours
5	Building - 100000 sqft- 10 st	Interior Bu	Tool Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours
5	Building - 100000 sqft- 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours
5	Building - 100000 sqft- 10 st	Roofing	High Lift	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours
5	Building - 100000 sqft- 10 st	Roofing	Man Lift	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours
5	Building - 100000 sqft- 10 st	Roofing	Material Deliveries	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours
5	Building - 100000 sqft- 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours
5	Building - 100000 sqft- 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours
5	Building - 100000 sqft- 10 st	Security &	High Lift	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours
5	Building - 100000 sqft- 10 st	Security &	Tool Truck	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours
5	Building - 100000 sqft- 10 st	Structural	90 Ton Crane	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours
5	Building - 100000 sqft- 10 st	Structural	Concrete Pump	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours
5	Building - 100000 sqft- 10 st	Structural	Concrete Truck	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours
5	Building - 100000 sqft- 10 st	Structural	Fork Truck	Diesel	100000.00 SF	0.0064 Hours per 1.00 SF	640	hours
5	Building - 100000 sqft- 10 st	Structural	Tool Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours
5	Building - 100000 sqft- 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours
5	Building - 100000 sqft- 10 st	Structural	Trowel Machine	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours
5	Building - 100000 sqft- 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0072 Hours per 1.00 SF	720	hours

Activity: On-Road (Estimated based on engineering experience)

Scen	Project	Equipment	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Number of Employees Or $M*11 (Whichever I	Number of F	Project Length	Project Width	Project Area	Building Hei	Open Space	Number of T	Activity Size	Activity Rate	Default VMT	User VMT
1	Terminal Apron	Asphalt 18	Material Delivery	Diesel	Urban Unrestricted Access	40	--	108	1708	100	--	--	--	--	--	--	2478	
1	Terminal Apron	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	108	1708	100	--	--	--	--	--	--	3511	
1	Terminal Apron	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	108	1708	100	--	--	--	--	--	--	21065	
1	Terminal Apron	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	190.905	108	--	--	--	--	--	--	--	--	618532	
2	Building - 10000 sqft- 1 stor	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	2313	
2	Building - 10000 sqft- 1 stor	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	1233	
2	Building - 10000 sqft- 1 stor	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	3.223	258	--	--	--	--	--	--	--	--	24946	
2	Building - 10000 sqft- 1 stor	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	0.0016	160	
3	Building - 10000 sqft- 1 stor	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	2313	
3	Building - 10000 sqft- 1 stor	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	1233	
3	Building - 10000 sqft- 1 stor	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	174.68	258	--	--	--	--	--	--	--	--	1352023	
3	Building - 10000 sqft- 1 stor	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	0.0016	160	
4	Parking Structure - 240000 s	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	--	55500	
4	Parking Structure - 240000 s	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	--	29600	
4	Parking Structure - 240000 s	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	836.077	258	--	--	--	--	--	--	--	--	6471236	
4	Parking Structure - 240000 s	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	0.00083	1992	
5	Building - 100000 sqft- 10 st	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	--	23125	
5	Building - 100000 sqft- 10 st	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	--	12333	
5	Building - 100000 sqft- 10 st	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	685.234	258	--	--	--	--	--	--	--	--	5303711	
5	Building - 100000 sqft- 10 st	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	0.0024	2400	

Emission Factor: Non-Road (from NONROAD)

Scen	Project	Constructi	Equipment	Fuel Type	Avg Rated HP	Load Factor	CO (g/hp-hr)	NOx (g/hp-h	CO2 (g/hp-hr)	SO2 (g/hp-hr)	PM10 (g/hp-hr)	PM2.5 (g/hp	VOC Exhaust	VOC Evaporative (g/equipment-day)	
1	Terminal Apron	Asphalt Pl	Asphalt Paver	Diesel	175	0.59	0.163791084	0.345079	536.405413	0.00260544	0.016826891	0.0154807	0.1403336	0.0149845	
1	Terminal Apron	Asphalt Pl	Dump Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Asphalt Pl	Other General Equipment	Diesel	175	0.43	0.147929986	0.479668	530.606268	0.00261814	0.025030428	0.023028	0.1440194	0.0347995	
1	Terminal Apron	Asphalt Pl	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Asphalt Pl	Roller	Diesel	100	0.59	0.485012902	0.401999	595.72703	0.00290382	0.025343696	0.0233162	0.14186	0.0155069	
1	Terminal Apron	Asphalt Pl	Skid Steer Loader	Diesel	75	0.21	2.543964047	3.780331	694.627087	0.0038604	0.322501955	0.2967018	0.4527366	0.213884	
1	Terminal Apron	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355219914	4.461256	594.730501	0.00400921	0.35393157	0.325617	0.4708071	0	
1	Terminal Apron	Clearing a	Chain Saw	Diesel	11	0.7	293.5350193	1.322993	685.996378	0.14019157	9.748189499	8.9683343	61.888357	25.002037	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Terminal Apron	Clearing a	Chipper/Stump Grinder	Diesel	100	0.43	1.008404557	1.645581	589.685113	0.00318133	0.152088911	0.1399218	0.2256792	0.1886014	
1	Terminal Apron	Clearing a	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Drainage -	Dozer	Diesel	175	0.59	0.150967094	0.31161	536.407802	0.00259567	0.013118411	0.0120689	0.1395323	0.0067997	
1	Terminal Apron	Drainage -	Dump Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Drainage -	Excavator	Diesel	175	0.59	0.14563969	0.293821	536.408503	0.00259148	0.011526018	0.0106039	0.1393047	0.0031547	
1	Terminal Apron	Drainage -	Loader	Diesel	175	0.59	0.175824022	0.378537	536.402865	0.0026145	0.020282442	0.0186598	0.1411587	0.0221875	
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	175	0.43	0.147929986	0.479668	530.606268	0.00261814	0.025030428	0.023028	0.1440194	0.0347995	
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Drainage -	Roller	Diesel	100	0.59	0.485012902	0.401999	595.72703	0.00290382	0.025343696	0.0233162	0.14186	0.0155069	
1	Terminal Apron	Drainage -	Dump Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Drainage -	Loader	Diesel	175	0.59	0.175824022	0.378537	536.402865	0.0026145	0.020282442	0.0186598	0.1411587	0.0221875	
1	Terminal Apron	Drainage -	Other General Equipment	Diesel	175	0.43	0.147929986	0.479668	530.606268	0.00261814	0.025030428	0.023028	0.1440194	0.0347995	
1	Terminal Apron	Drainage -	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Drainage -	Tractors/Loader/Backhoe	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
1	Terminal Apron	Dust Contr	Water Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Excavation	Dozer	Diesel	175	0.59	0.150967094	0.31161	536.407802	0.00259567	0.013118411	0.0120689	0.1395323	0.0067997	
1	Terminal Apron	Excavation	Dump Truck (12 cy)	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Excavation	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Excavation	Roller	Diesel	100	0.59	0.485012902	0.401999	595.72703	0.00290382	0.025343696	0.0233162	0.14186	0.0155069	
1	Terminal Apron	Excavation	Dozer	Diesel	175	0.59	0.150967094	0.31161	536.407802	0.00259567	0.013118411	0.0120689	0.1395323	0.0067997	
1	Terminal Apron	Excavation	Dump Truck (12 cy)	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Excavation	Excavator	Diesel	175	0.59	0.14563969	0.293821	536.408503	0.00259148	0.011526018	0.0106039	0.1393047	0.0031547	
1	Terminal Apron	Excavation	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Excavation	Roller	Diesel	100	0.59	0.485012902	0.401999	595.72703	0.00290382	0.025343696	0.0233162	0.14186	0.0155069	
1	Terminal Apron	Excavation	Scraper	Diesel	600	0.59	0.20999359	0.491047	536.402525	0.00264082	0.023019267	0.0211777	0.1412688	0.1374855	
1	Terminal Apron	Excavation	Dozer	Diesel	175	0.59	0.150967094	0.31161	536.407802	0.00259567	0.013118411	0.0120689	0.1395323	0.0067997	
1	Terminal Apron	Fencing	Concrete Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Fencing	Dump Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Fencing	Other General Equipment	Diesel	175	0.43	0.147929986	0.479668	530.606268	0.00261814	0.025030428	0.023028	0.1440194	0.0347995	
1	Terminal Apron	Fencing	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Fencing	Skid Steer Loader	Diesel	75	0.21	2.543964047	3.780331	694.627087	0.0038604	0.322501955	0.2967018	0.4527366	0.213884	
1	Terminal Apron	Fencing	Tractors/Loader/Backhoe	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
1	Terminal Apron	Grading	Dozer	Diesel	175	0.59	0.150967094	0.31161	536.407802	0.00259567	0.013118411	0.0120689	0.1395323	0.0067997	
1	Terminal Apron	Grading	Grader	Diesel	300	0.59	0.124150754	0.304454	536.408312	0.00259239	0.011317902	0.0104125	0.1393337	0.0063072	
1	Terminal Apron	Grading	Roller	Diesel	100	0.59	0.485012902	0.401999	595.72703	0.00290382	0.025343696	0.0233162	0.14186	0.0155069	
1	Terminal Apron	Hydroseec	Hydroseeder	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Hydroseec	Off-Road Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Lighting	Dump Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Lighting	Loader	Diesel	175	0.59	0.175824022	0.378537	536.402865	0.0026145	0.020282442	0.0186598	0.1411587	0.0221875	
1	Terminal Apron	Lighting	Other General Equipment	Diesel	175	0.43	0.147929986	0.479668	530.606268	0.00261814	0.025030428	0.023028	0.1440194	0.0347995	
1	Terminal Apron	Lighting	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Lighting	Skid Steer Loader	Diesel	75	0.21	2.543964047	3.780331	694.627087	0.0038604	0.322501955	0.2967018	0.4527366	0.213884	
1	Terminal Apron	Lighting	Tractors/Loader/Backhoe	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
1	Terminal Apron	Markings	Flatbed Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Markings	Other General Equipment	Diesel	175	0.43	0.147929986	0.479668	530.606268	0.00261814	0.025030428	0.023028	0.1440194	0.0347995	
1	Terminal Apron	Markings	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Sealing/Fu	Distributing Tanker	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Sealing/Fu	Other General Equipment	Diesel	175	0.43	0.147929986	0.479668	530.606268	0.00261814	0.025030428	0.023028	0.1440194	0.0347995	
1	Terminal Apron	Sealing/Fu	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Soil Erosio	Other General Equipment	Diesel	175	0.43	0.147929986	0.479668	530.606268	0.00261814	0.025030428	0.023028	0.1440194	0.0347995	
1	Terminal Apron	Soil Erosio	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Soil Erosio	Pumps	Diesel	11	0.43	4.447144481	4.35281	588.567997	0.0039676	0.357477517	0.3288793	0.5944321	0.0021428	
1	Terminal Apron	Soil Erosio	Tractors/Loader/Backhoe	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
1	Terminal Apron	Subbase P	Dozer	Diesel	175	0.59	0.150967094	0.31161	536.407802	0.00259567	0.013118411	0.0120689	0.1395323	0.0067997	
1	Terminal Apron	Subbase P	Dump Truck (12 cy)	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Subbase P	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Subbase P	Roller	Diesel	100	0.59	0.485012902	0.401999	595.72703	0.00290382	0.025343696	0.0233162	0.14186	0.0155069	
1	Terminal Apron	Topsoil Pl	Dozer	Diesel	175	0.59	0.150967094	0.31161	536.407802	0.00259567	0.013118411	0.0120689	0.1395323	0.0067997	
1	Terminal Apron	Topsoil Pl	Dump Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
1	Terminal Apron	Topsoil Pl	Pickup Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Concrete F	Backhoe	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
2	Building - 10000 sqft- 1 stor	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Concrete F	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
2	Building - 10000 sqft- 1 stor	Concrete F	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Exterior W	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
2	Building - 10000 sqft- 1 stor	Exterior W	Man Lift	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
2	Building - 10000 sqft- 1 stor	Exterior W	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Interior Bu	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
2	Building - 10000 sqft- 1 stor	Interior Bu	Man Lift	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
2	Building - 10000 sqft- 1 stor	Interior Bu	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Roofing	High Lift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
2	Building - 10000 sqft- 1 stor	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
2	Building - 10000 sqft- 1 stor	Roofing	Material Deliveries	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Security &	High Lift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
2	Building - 10000 sqft- 1 stor	Security &	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Structural	40 Ton Crane	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	
2	Building - 10000 sqft- 1 stor	Structural	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
2	Building - 10000 sqft- 1 stor	Structural	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
2	Building - 10000 sqft- 1 stor	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Concrete F	Backhoe	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
3	Building - 10000 sqft- 1 stor	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Concrete F	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
3	Building - 10000 sqft- 1 stor	Concrete F	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Exterior W	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
3	Building - 10000 sqft- 1 stor	Exterior W	Man Lift	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
3	Building - 10000 sqft- 1 stor	Exterior W	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Interior Bu	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
3	Building - 10000 sqft- 1 stor	Interior Bu	Man Lift	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
3	Building - 10000 sqft- 1 stor	Interior Bu	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Roofing	High Lift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
3	Building - 10000 sqft- 1 stor	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
3	Building - 10000 sqft- 1 stor	Roofing	Material Deliveries	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Security &	High Lift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
3	Building - 10000 sqft- 1 stor	Security &	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Structural	40 Ton Crane	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	
3	Building - 10000 sqft- 1 stor	Structural	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
3	Building - 10000 sqft- 1 stor	Structural	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
3	Building - 10000 sqft- 1 stor	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Asphalt Pa	Asphalt Paver	Diesel	175	0.59	0.163791084	0.345079	536.405413	0.00260544	0.016826891	0.0154807	0.1403336	0.0149845	
4	Parking Structure - 240000 s	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
4	Parking Structure - 240000 s	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Concrete F	40 Ton Rough Terrain Crane	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	
4	Parking Structure - 240000 s	Concrete F	Backhoe	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
4	Parking Structure - 240000 s	Concrete F	Caisson Drilling Rig	Diesel	175	0.43	0.455403149	1.612986	530.437406	0.00288236	0.103101376	0.0948533	0.1997718	0.1777144	
4	Parking Structure - 240000 s	Concrete F	Concrete Pump	Diesel	11	0.43	4.447144481	4.35281	588.567997	0.0039676	0.357477517	0.3288793	0.5944321	0.0021428	
4	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Concrete F	Excavator	Diesel	175	0.59	0.14563969	0.293821	536.408503	0.00259148	0.011526018	0.0106039	0.1393047	0.0031547	
4	Parking Structure - 240000 s	Concrete F	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
4	Parking Structure - 240000 s	Concrete F	Front Loader	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
4	Parking Structure - 240000 s	Concrete F	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Stone Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Concrete F	Trencher for U/G Piping	Diesel	75	0.59	0.648670334	3.061517	595.696938	0.00298602	0.053708017	0.0494114	0.1518013	0.0173122	
4	Parking Structure - 240000 s	Concrete F	90 Ton Crane	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	
4	Parking Structure - 240000 s	Concrete F	Concrete Boom Pump	Diesel	11	0.43	4.447144481	4.35281	588.567997	0.0039676	0.357477517	0.3288793	0.5944321	0.0021428	
4	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Concrete F	Trowel Machines (4) machines	Diesel	600	0.59	0.450394563	1.069556	536.361977	0.0027874	0.061923079	0.0569692	0.1546558	0.4341533	
4	Parking Structure - 240000 s	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Lights and	Forklift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
4	Parking Structure - 240000 s	Lights and	High Lift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
4	Parking Structure - 240000 s	Lights and	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Lights and	Trencher	Diesel	75	0.59	0.648670334	3.061517	595.696938	0.00298602	0.053708017	0.0494114	0.1518013	0.0173122	
4	Parking Structure - 240000 s	Precast Cc	40 Ton Rough Terrain	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	
4	Parking Structure - 240000 s	Precast Cc	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
4	Parking Structure - 240000 s	Precast Cc	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Security &	High Lift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
4	Parking Structure - 240000 s	Security &	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Site Prep/l	Front Loader	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
4	Parking Structure - 240000 s	Site Prep/l	Tractor Trailer with Boom Hoist- Curbs De	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
4	Parking Structure - 240000 s	Site Prep/l	Truck for Topsoil & Seed Del&Spread	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Concrete F	Backhoe	Diesel	100	0.21	2.12179533	1.439314	695.062358	0.00365897	0.248430922	0.2285564	0.3090165	0.2681736	
5	Building - 100000 sqft- 10 st	Concrete F	Concrete Pump	Diesel	11	0.43	4.447144481	4.35281	588.567997	0.0039676	0.357477517	0.3288793	0.5944321	0.0021428	
5	Building - 100000 sqft- 10 st	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Concrete F	Excavator	Diesel	175	0.59	0.14563969	0.293821	536.408503	0.00259148	0.011526018	0.0106039	0.1393047	0.0031547	
5	Building - 100000 sqft- 10 st	Concrete F	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
5	Building - 100000 sqft- 10 st	Concrete F	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Exterior W	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
5	Building - 100000 sqft- 10 st	Exterior W	Generator	Diesel	40	0.43	0.51149698	3.37939	589.79521	0.00306604	0.090546201	0.0833025	0.1893173	0.0105981	
5	Building - 100000 sqft- 10 st	Exterior W	Grout Mixer	Diesel	600	0.59	0.450394563	1.069556	536.361977	0.0027874	0.061923079	0.0569692	0.1546558	0.4341533	
5	Building - 100000 sqft- 10 st	Exterior W	Grout Wheel Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Exterior W	Man Lift	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
5	Building - 100000 sqft- 10 st	Exterior W	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	
5	Building - 100000 sqft- 10 st	Interior Bu	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
5	Building - 100000 sqft- 10 st	Interior Bu	Man Lift	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
5	Building - 100000 sqft- 10 st	Interior Bu	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Roofing	High Lift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
5	Building - 100000 sqft- 10 st	Roofing	Man Lift	Diesel	75	0.21	2.382287391	3.799564	694.684451	0.0038611	0.275132868	0.2531222	0.4338047	0.0847546	
5	Building - 100000 sqft- 10 st	Roofing	Material Deliveries	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	
5	Building - 100000 sqft- 10 st	Security &	High Lift	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
5	Building - 100000 sqft- 10 st	Security &	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Structural	90 Ton Crane	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	
5	Building - 100000 sqft- 10 st	Structural	Concrete Pump	Diesel	11	0.43	4.447144481	4.35281	588.567997	0.0039676	0.357477517	0.3288793	0.5944321	0.0021428	
5	Building - 100000 sqft- 10 st	Structural	Concrete Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Structural	Fork Truck	Diesel	100	0.59	0.39506927	0.281445	595.734847	0.00287509	0.01043755	0.0096025	0.1392743	0	
5	Building - 100000 sqft- 10 st	Structural	Tool Truck	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.143469638	0.291819	536.408887	0.0025899	0.010729148	0.0098708	0.1391808	0.0056167	
5	Building - 100000 sqft- 10 st	Structural	Trowel Machine	Diesel	600	0.59	0.450394563	1.069556	536.361977	0.0027874	0.061923079	0.0569692	0.1546558	0.4341533	
5	Building - 100000 sqft- 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.093745699	0.388372	530.616429	0.00258391	0.01402102	0.0128993	0.1406651	0.0315265	

Emission Factors: On-Road (from MOVES)

Scen	Project Type	Equipmen	Fuel Type	Roadway Type	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi)	PM2.5(g/mi)	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/veh	RV NOx(g/ve	RV CO2(g/ve	RV SO2(g/ve	RV PM10(g/v	RV PM2.5(g/	RV VOC(g/ve	RP VOC(g/veh-day)
1	Terminal Apron	Asphalt 18	Diesel	Urban Unrestricted Access	0.62039151	1.991334854	2511.462072	0.017305	0.0739222	0.07170699	0.126815301	0.071673	0.0034638	22.522142	0.3936348	296.16425	0.0021043	0.0164224	0.0159304	6.5176193	0
1	Terminal Apron	Dump Truc	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
1	Terminal Apron	Dump Truc	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
1	Terminal Apron	Passenger	Gasoline	Urban Unrestricted Access	2.023973658	0.086842452	351.9093891	0.004936	0.00418646	0.00385496	0.048801153	0.0047955	0.0016661	24.945405	1.45917	277.84528	0.0038974	0.0316805	0.0291717	4.9559409	0.7659344
2	Building - 10000 sqft- 1 stor	Cement M	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
2	Building - 10000 sqft- 1 stor	Dump Truc	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
2	Building - 10000 sqft- 1 stor	Passenger	Gasoline	Urban Unrestricted Access	2.023973658	0.086842452	351.9093891	0.004936	0.00418646	0.00385496	0.048801153	0.0047955	0.0016661	24.945405	1.45917	277.84528	0.0038974	0.0316805	0.0291717	4.9559409	0.7659344
2	Building - 10000 sqft- 1 stor	Tractor Tra	Diesel	Urban Unrestricted Access	0.62039151	1.991334854	2511.462072	0.017305	0.0739222	0.07170699	0.126815301	0.071673	0.0034638	22.522142	0.3936348	296.16425	0.0021043	0.0164224	0.0159304	6.5176193	0
3	Building - 10000 sqft- 1 stor	Cement M	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
3	Building - 10000 sqft- 1 stor	Dump Truc	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
3	Building - 10000 sqft- 1 stor	Passenger	Gasoline	Urban Unrestricted Access	2.023973658	0.086842452	351.9093891	0.004936	0.00418646	0.00385496	0.048801153	0.0047955	0.0016661	24.945405	1.45917	277.84528	0.0038974	0.0316805	0.0291717	4.9559409	0.7659344
3	Building - 10000 sqft- 1 stor	Tractor Tra	Diesel	Urban Unrestricted Access	0.62039151	1.991334854	2511.462072	0.017305	0.0739222	0.07170699	0.126815301	0.071673	0.0034638	22.522142	0.3936348	296.16425	0.0021043	0.0164224	0.0159304	6.5176193	0
4	Parking Structure - 240000	Cement M	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
4	Parking Structure - 240000	Dump Truc	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
4	Parking Structure - 240000	Passenger	Gasoline	Urban Unrestricted Access	2.023973658	0.086842452	351.9093891	0.004936	0.00418646	0.00385496	0.048801153	0.0047955	0.0016661	24.945405	1.45917	277.84528	0.0038974	0.0316805	0.0291717	4.9559409	0.7659344
4	Parking Structure - 240000	Tractor Tra	Diesel	Urban Unrestricted Access	0.62039151	1.991334854	2511.462072	0.017305	0.0739222	0.07170699	0.126815301	0.071673	0.0034638	22.522142	0.3936348	296.16425	0.0021043	0.0164224	0.0159304	6.5176193	0
5	Building - 100000 sqft- 10 st	Cement M	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
5	Building - 100000 sqft- 10 st	Dump Truc	Diesel	Urban Unrestricted Access	0.483369294	1.082610757	1376.851015	0.009466	0.02813499	0.02729192	0.092698876	0.0711777	0.0034639	23.25955	0.1444093	281.87005	0.0019697	0.0086738	0.008414	0.5906356	0
5	Building - 100000 sqft- 10 st	Passenger	Gasoline	Urban Unrestricted Access	2.023973658	0.086842452	351.9093891	0.004936	0.00418646	0.00385496	0.048801153	0.0047955	0.0016661	24.945405	1.45917	277.84528	0.0038974	0.0316805	0.0291717	4.9559409	0.7659344
5	Building - 100000 sqft- 10 st	Tractor Tra	Diesel	Urban Unrestricted Access	0.62039151	1.991334854	2511.462072	0.017305	0.0739222	0.07170699	0.126815301	0.071673	0.0034638	22.522142	0.3936348	296.16425	0.0021043	0.0164224	0.0159304	6.5176193	0

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scen	Project	Fugitive Ty	Variable	Default Values	Units	User Value		
1	Terminal Apron	Asphalt Dr	A = Area of land affected = L x W x 0.0929	15867.3	m2			
1	Terminal Apron	Asphalt Dr	AR = Application rate of liquefied asphalt c	1.811	l/m2			
1	Terminal Apron	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
1	Terminal Apron	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
1	Terminal Apron	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
1	Terminal Apron	Asphalt Dr	VOC = A x AR x VD x EF x D	12672.5	lbs			
1	Terminal Apron	Asphalt St	T = Mass of asphalt loaded = L x W x 0.166	2064.2	tons			
1	Terminal Apron	Asphalt St	PM10 = (0.027 + 0.00042) x T	56.6	lbs			
1	Terminal Apron	Asphalt St	CO = (0.4 + 0.0004) x T	826.5	lbs			
1	Terminal Apron	Asphalt St	NOx = (0.025) x T	51.6	lbs			
1	Terminal Apron	Asphalt St	SOx = (0.0046) x T	9.496	lbs			
1	Terminal Apron	Asphalt St	VOC = (0.0082 + 0.0042) x T	25.6	lbs			
1	Terminal Apron	Material M	s = Surface material silt content	0.043	fraction			
1	Terminal Apron	Material M	Wt. = Mean vehicle weight	32	tons			
1	Terminal Apron	Material M	VMT = Vehicle miles traveled	3296.7	miles			
1	Terminal Apron	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	90.3	lbs			
1	Terminal Apron	Material M	sL = Road surface silt loading	0.1	g/m3			
1	Terminal Apron	Material M	Wt. = Mean vehicle weight	32	tons			
1	Terminal Apron	Material M	VMT = Vehicle miles traveled	2700	miles			
1	Terminal Apron	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VN	25.1	lbs			
1	Terminal Apron	Unstabiliz	A = Area affected = L x W / 43560.0	3.921	acres			
1	Terminal Apron	Unstabiliz	TPConv = TSP/PM10 conversion	0.5	fraction			
1	Terminal Apron	Unstabiliz	CE = Control efficiency	0.63	fraction			
1	Terminal Apron	Unstabiliz	t = year (e.g. 0.65 year)	0.417	years			
1	Terminal Apron	Unstabiliz	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2000	0	lbs			
1	Terminal Apron	Soil Handl	u = Wind speed	5	mph			
1	Terminal Apron	Soil Handl	m = Moisture content	0.25	fraction			
1	Terminal Apron	Soil Handl	T = Mass of aggregate storage pile = L x W x	4697	tons			
1	Terminal Apron	Soil Handl	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] / [(m/	96.7	lbs			
2	Building - 10000 sqft- 1 stor	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	462.5	yd3			
2	Building - 10000 sqft- 1 stor	Concrete M	PM10 = 0.037 x V	17.1	lbs			
2	Building - 10000 sqft- 1 stor	Material M	sL = Road surface silt loading	0.1	g/m3			
2	Building - 10000 sqft- 1 stor	Material M	Wt. = Mean vehicle weight	32	tons			
2	Building - 10000 sqft- 1 stor	Material M	VMT = Vehicle miles traveled	2580	miles			
2	Building - 10000 sqft- 1 stor	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VN	23.9	lbs			
2	Building - 10000 sqft- 1 stor	Material M	s = Surface material silt content	0.043	fraction			
2	Building - 10000 sqft- 1 stor	Material M	Wt. = Mean vehicle weight	32	tons			
2	Building - 10000 sqft- 1 stor	Material M	VMT = Vehicle miles traveled	2580	miles			
2	Building - 10000 sqft- 1 stor	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	70.7	lbs			
3	Building - 10000 sqft- 1 stor	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	462.5	yd3			
3	Building - 10000 sqft- 1 stor	Concrete M	PM10 = 0.037 x V	17.1	lbs			
3	Building - 10000 sqft- 1 stor	Material M	sL = Road surface silt loading	0.1	g/m3			
3	Building - 10000 sqft- 1 stor	Material M	Wt. = Mean vehicle weight	32	tons			
3	Building - 10000 sqft- 1 stor	Material M	VMT = Vehicle miles traveled	2580	miles			
3	Building - 10000 sqft- 1 stor	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VN	23.9	lbs			
3	Building - 10000 sqft- 1 stor	Material M	s = Surface material silt content	0.043	fraction			
3	Building - 10000 sqft- 1 stor	Material M	Wt. = Mean vehicle weight	32	tons			
3	Building - 10000 sqft- 1 stor	Material M	VMT = Vehicle miles traveled	2580	miles			
3	Building - 10000 sqft- 1 stor	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	70.7	lbs			
4	Parking Structure - 240000 s	Asphalt Dr	A = Area of land affected = L x W x 0.0929	22296	m2		5.5	0.2915
4	Parking Structure - 240000 s	Asphalt Dr	AR = Application rate of liquefied asphalt c	1.811	l/m2			
4	Parking Structure - 240000 s	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
4	Parking Structure - 240000 s	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
4	Parking Structure - 240000 s	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
4	Parking Structure - 240000 s	Asphalt Dr	VOC = A x AR x VD x EF x D	17806.7	lbs			
4	Parking Structure - 240000 s	Material M	sL = Road surface silt loading	0.1	g/m3			
4	Parking Structure - 240000 s	Material M	Wt. = Mean vehicle weight	32	tons			
4	Parking Structure - 240000 s	Material M	VMT = Vehicle miles traveled	6450	miles			
4	Parking Structure - 240000 s	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VN	59.9	lbs			
4	Parking Structure - 240000 s	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	11100	yd3			
4	Parking Structure - 240000 s	Concrete M	PM10 = 0.037 x V	410.7	lbs			
4	Parking Structure - 240000 s	Material M	s = Surface material silt content	0.043	fraction			
4	Parking Structure - 240000 s	Material M	Wt. = Mean vehicle weight	32	tons			
4	Parking Structure - 240000 s	Material M	VMT = Vehicle miles traveled	6550.5	miles			
4	Parking Structure - 240000 s	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	179.4	lbs			
5	Building - 100000 sqft- 10 st	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	4625	yd3			
5	Building - 100000 sqft- 10 st	Concrete M	PM10 = 0.037 x V	171.1	lbs			
5	Building - 100000 sqft- 10 st	Material M	sL = Road surface silt loading	0.1	g/m3			
5	Building - 100000 sqft- 10 st	Material M	Wt. = Mean vehicle weight	32	tons			
5	Building - 100000 sqft- 10 st	Material M	VMT = Vehicle miles traveled	3870	miles			
5	Building - 100000 sqft- 10 st	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VN	35.9	lbs			
5	Building - 100000 sqft- 10 st	Material M	s = Surface material silt content	0.043	fraction			
5	Building - 100000 sqft- 10 st	Material M	Wt. = Mean vehicle weight	32	tons			
5	Building - 100000 sqft- 10 st	Material M	VMT = Vehicle miles traveled	3970	miles			
5	Building - 100000 sqft- 10 st	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	108.7	lbs			

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ASSUMPTIONS

Emission factors were developed from the following models:

- On-Road Vehicles: MOVES 2010b, revised January 2013
- Non-Road Equipment: NONROAD2008a, July 2009

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:
- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

Asphalt Deliveries/Ten Wheelers
Bulldozer
Concrete Ready-Mix Trucks
Concrete Ready Trucks Mix for Cores
Concrete Truck
Crack Filler (Trailer Mounted)
Delivery of Tanks (3)
Distributing Tanker
Dozer
Dump Truck
Dump Truck (12 cy)
Excavator
Excavator for L/G Services/Tanks
Flat Bed or Dump Trucks
Flatbed Truck
Grader
Grout Wheel Truck
Hoist Equipment with 40 Ton Rig
Hydraiic Hammer
Hydroseeder
Line Painting Truck and Sprayer
Material Deliveries
Off-Road Truck
Pickup Truck
Scraper
Seed Truck Spreader
Small Dozer
Survey Crew Trucks
Ten Wheelers
Ten Wheelers- Material Delivery
Tool Truck
Tractor Trailer- Equipment Delivery
Tractor Trailer- Material Delivery
Tractor Trailer- Steel Deliveries
Tractor Trailer- Stone Delivery
Tractor Trailer- Topsoil & Seed
Tractor Trailer- Truck Delivery
Tractor Trailer with Boom Hoist- Curbs Del & Place
Tractor Trailer with Boom Hoist- Delivery
Tractor Trailers- Rebar Deliveries
Tractor Trailers Temp Fac.
Truck for Topsoil & Seed Del&Spread
Water Truck
Excavator with Bucket
Excavator with Hoe Ram

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Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/16/2026 1:28:20 PM

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STUDY

Study Name

DFW Terminal SEA

Study Description

Construction 2028

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EMISSIONS INVENTORY - DETAILS:

2028 DFW CTA Supplemental EA Construction Emissions

Non-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

											TEXN2.6 NONROAD Emission Factors (g/hp-hr)						TEXN2.6 Nonroad Emissions (Tons Per Year)					
Scenario ID	Year	Project	Construction Activity	TEXN2.6 Equipment	TEXN2.6 Equipment	TEXN2.6 Lookup	Fuel	HP Average	Load Factor	Hours of Activity	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	0.63809	1.12025	0.00201	0.09363	0.09082	0.09286	0.00473	0.00830	0.00001	0.00069	0.00067	0.00069
1	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00244	0.00651	0.00003	0.00045	0.00044	0.00040
1	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	320	0.80782	1.43179	0.00181	0.13030	0.12639	0.07746	0.01681	0.02980	0.00004	0.00271	0.00263	0.00161
1	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00326	0.00867	0.00004	0.00060	0.00058	0.00054
1	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00065	0.00173	0.00001	0.00012	0.00012	0.00011
1	2028	Building - 10000 sqft- 1 story	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00041	0.00108	0.00000	0.00008	0.00007	0.00007
1	2028	Building - 10000 sqft- 1 story	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00016	0.00043	0.00000	0.00003	0.00003	0.00003
1	2028	Building - 10000 sqft- 1 story	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	240	0.80782	1.43179	0.00181	0.13030	0.12639	0.07746	0.01261	0.02235	0.00003	0.00203	0.00197	0.00121
1	2028	Building - 10000 sqft- 1 story	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.33847	2.22115	0.00173	0.03784	0.03671	0.06353	0.00141	0.00925	0.00001	0.00016	0.00015	0.00026
1	2028	Building - 10000 sqft- 1 story	Exterior Wall Framing	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00244	0.00651	0.00003	0.00045	0.00044	0.00040
1	2028	Building - 10000 sqft- 1 story	Exterior Wall Framing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00098	0.00260	0.00001	0.00018	0.00017	0.00016
1	2028	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	960	0.80782	1.43179	0.00181	0.13030	0.12639	0.07746	0.05044	0.08939	0.00011	0.00814	0.00789	0.00484
1	2028	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.33847	2.22115	0.00173	0.03784	0.03671	0.06353	0.00564	0.03702	0.00003	0.00063	0.00061	0.00106
1	2028	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00489	0.01301	0.00006	0.00090	0.00087	0.00081
1	2028	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00489	0.01301	0.00006	0.00090	0.00087	0.00081
1	2028	Building - 10000 sqft- 1 story	Roofing	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.38184	1.03541	0.00181	0.06172	0.05987	0.03064	0.00298	0.00808	0.00001	0.00048	0.00047	0.00024
1	2028	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.33847	2.22115	0.00173	0.03784	0.03671	0.06353	0.00071	0.00463	0.00000	0.00008	0.00008	0.00013
1	2028	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	8	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00033	0.00087	0.00000	0.00006	0.00006	0.00005
1	2028	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	12	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00049	0.00130	0.00001	0.00009	0.00009	0.00008
1	2028	Building - 10000 sqft- 1 story	Security & Safety Systems	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.38184	1.03541	0.00181	0.06172	0.05987	0.03064	0.00795	0.02155	0.00004	0.00128	0.00125	0.00064
1	2028	Building - 10000 sqft- 1 story	Security & Safety Systems	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00326	0.00867	0.00004	0.00060	0.00058	0.00054
1	2028	Building - 10000 sqft- 1 story	Structural Steel Erection	40 Ton Crane	Cranes	Cranes300	Diesel	300	0.43	240	0.11521	0.50007	0.00147	0.02474	0.02399	0.03366	0.00393	0.01707	0.00005	0.00084	0.00082	0.00115
1	2028	Building - 10000 sqft- 1 story	Structural Steel Erection	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	120	0.80782	1.43179	0.00181	0.13030	0.12639	0.07746	0.00630	0.01117	0.00001	0.00102	0.00099	0.00060
1	2028	Building - 10000 sqft- 1 story	Structural Steel Erection	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00244	0.00651	0.00003	0.00045	0.00044	0.00040
1	2028	Building - 10000 sqft- 1 story	Structural Steel Erection	Tractor Trailer- Steel Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00065	0.00173	0.00001	0.00012	0.00012	0.00011
2	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	0.63809	1.12025	0.00201	0.09363	0.09082	0.09286	0.00473	0.00830	0.00001	0.00069	0.00067	0.00069
2	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00244	0.00651	0.00003	0.00045	0.00044	0.00040
2	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	320	0.80782	1.43179	0.00181	0.13030	0.12639	0.07746	0.01681	0.02980	0.00004	0.00271	0.00263	0.00161
2	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00326	0.00867	0.00004	0.00060	0.00058	0.00054
2	2028	Building - 10000 sqft- 1 story	Concrete Foundations	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00065	0.00173	0.00001	0.00012	0.00012	0.00011
2	2028	Building - 10000 sqft- 1 story	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00041	0.00108	0.00000	0.00008	0.00007	0.00007
2	2028	Building - 10000 sqft- 1 story	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00016	0.00043	0.00000	0.00003	0.00003	0.00003
2	2028	Building - 10000 sqft- 1 story	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	240	0.80782	1.43179	0.00181	0.13030	0.12639	0.07746	0.01261	0.02235	0.00003	0.00203	0.00197	0.00121
2	2028	Building - 10000 sqft- 1 story	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.33847	2.22115	0.00173	0.03784	0.03671	0.06353	0.00141	0.00925	0.00001	0.00016	0.00015	0.00026

[illegible]

1	2028	Building - 10000 sqft - 1 story	Structural Steel Erection	Tractor Trailer- Steel Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00065	0.00173	0.00001	0.00012	0.00012	0.00011
2	2028	Demolition - Concrete	Concrete Demolition	Excavator with Bucket	Excavators	Excavators175	Diesel	175	0.59	22.8	0.10351	0.30972	0.00142	0.02517	0.02442	0.01733	0.00027	0.00080	0.00000	0.00007	0.00006	0.00004
2	2028	Demolition - Concrete	Concrete Demolition	Excavator with Hoe Ram	Excavators	Excavators175	Diesel	175	0.59	22.8	0.10351	0.30972	0.00142	0.02517	0.02442	0.01733	0.00027	0.00080	0.00000	0.00007	0.00006	0.00004
2	2028	Demolition - Concrete	Concrete Demolition	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	45.6	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00186	0.00494	0.00002	0.00034	0.00033	0.00031
3	2028	Building - 100000 sqft - 10 stories	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	480	0.63809	1.12025	0.00201	0.09363	0.09082	0.09286	0.00709	0.01245	0.00002	0.00104	0.00101	0.00103
3	2028	Building - 100000 sqft - 10 stories	Concrete Foundations	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	180	1.75893	2.99012	0.00198	0.17025	0.16514	0.59759	0.00165	0.00281	0.00000	0.00016	0.00015	0.00056
3	2028	Building - 100000 sqft - 10 stories	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	360	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.01466	0.03903	0.00017	0.00270	0.00262	0.00242
3	2028	Building - 100000 sqft - 10 stories	Concrete Foundations	Excavator	Excavators	Excavators175	Diesel	175	0.59	160	0.10351	0.30972	0.00142	0.02517	0.02442	0.01733	0.00188	0.00564	0.00003	0.00046	0.00044	0.00032
3	2028	Building - 100000 sqft - 10 stories	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	480	0.80782	1.43179	0.00181	0.13030	0.12639	0.07746	0.02522	0.04470	0.00006	0.00407	0.00395	0.00242
3	2028	Building - 100000 sqft - 10 stories	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00489	0.01301	0.00006	0.00090	0.00087	0.00081
3	2028	Building - 100000 sqft - 10 stories	Concrete Foundations	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	240	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00978	0.02602	0.00011	0.00180	0.00175	0.00161
3	2028	Building - 100000 sqft - 10 stories	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00041	0.00108	0.00000	0.00008	0.00007	0.00007
3	2028	Building - 100000 sqft - 10 stories	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00016	0.00043	0.00000	0.00003	0.00003	0.00003
3	2028	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	840	0.80782	1.43179	0.00181	0.13030	0.12639	0.07746	0.04413	0.07822	0.00010	0.00712	0.00690	0.00423
3	2028	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Generator	Other Construction Equipment	Other Construction Equipment40	Diesel	40	0.43	80	0.27376	2.18226	0.00171	0.02533	0.02457	0.08560	0.00042	0.00331	0.00000	0.00004	0.00004	0.00013
3	2028	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	420	0.60150	1.29030	0.00151	0.09053	0.08781	0.08471	0.09858	0.21147	0.00025	0.01484	0.01439	0.01388
3	2028	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Grout Wheel Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	160	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.00652	0.01735	0.00008	0.00120	0.00116	0.00108
3	2028	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	1680	0.33847	2.22115	0.00173	0.03784	0.03671	0.06353	0.00987	0.06478	0.00005	0.00110	0.00107	0.00185
3	2028	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	420	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.01711	0.04554	0.00020	0.00315	0.00306	0.00282
3	2028	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	840	0.10438	0.27787	0.00123	0.01923	0.01865	0.01722	0.03421	0.09108	0.00040	0.00630	0.00611	0.00564
3	2028	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	Diesel	300	0.43	80	0.03930	0.14929	0.00146	0.00999	0.00969	0.01118	0.00045	0.00170	0.00002	0.00011	0.00011	0.00013
																TOTAL (Tons Per Year)	3.97	9.89	0.03	0.68	0.66	0.58

On-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Equipment	Equipment Category	MOVES3 Onroad Lookup	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Distance for fugitive PM	Number of Vehicles	Number of Employees Or SM*1	Number of Project Days	Project Length	Project Width	Project Area	Building Height (Building	Open Space Height (Building	Number of Trees	Activity Rate	VMT	MOVES3 Onroad Emission Factor (g/mile) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	MOVES Onroad Emissions (Tons Per Year) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2028	Building - 10000 sqft - 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	--	2,313	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.00238	0.00268	0.00001	0.00029	0.00010	0.00007
1	2028	Building - 10000 sqft - 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	--	1,233	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.00127	0.00143	0.00000	0.00016	0.00006	0.00004
1	2028	Building - 10000 sqft - 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	3.223	3.223	258	--	--	--	--	--	--	--	241,875	2.62176	0.03057	0.00238	0.02707	0.00755	0.04304	0.69902	0.00815	0.00063	0.00722	0.00201	0.01147
1	2028	Building - 10000 sqft - 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.89395	3.97422	0.00570	0.46196	0.16578	0.06742	0.00051	0.00070	0.00000	0.00008	0.00003	0.00001
2	2028	Building - 10000 sqft - 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	--	2,313	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.00238	0.00268	0.00001	0.00029	0.00010	0.00007
2	2028	Building - 10000 sqft - 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	--	1,233	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.00127	0.00143	0.00000	0.00016	0.00006	0.00004
2	2028	Building - 10000 sqft - 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	174.68	174.68	258	--	--	--	--	--	--	--	241,875	2.62176	0.03057	0.00238	0.02707	0.00755	0.04304	0.69902	0.00815	0.00063	0.00722	0.00201	0.01147
2	2028	Building - 10000 sqft - 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.89395	3.97422	0.00570	0.46196	0.16578	0.06742	0.00051	0.00070	0.00000	0.00008	0.00003	0.00001
3	2028	Parking Structure - 240000 sqft - G+2 stori	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	258	--	--	240000	--	--	--	--	55,500	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.05719	0.06428	0.00016	0.00707	0.00249	0.00179
3	2028	Parking Structure - 240000 sqft - G+2 stori	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258	--	--	240000	--	--	--	--	29,600	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.03050	0.03428	0.00008	0.00377	0.00133	0.00095
3	2028	Parking Structure - 240000 sqft - G+2 stori	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	836.077	836.077	258	--	--	--	--	--	--	--	328,950	2.62176	0.03057	0.00238	0.02707	0.00755	0.04304	0.95067	0.01109	0.00086	0.00981	0.00274	0.01561
3	2028	Parking Structure - 240000 sqft - G+2 stori	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	240000	--	--	--	0.00083	1,992	2.89395	3.97422	0.00570	0.46196	0.16578	0.06742	0.00635	0.00873	0.00001	0.00101	0.00036	0.00015
4	2028	Building - 100000 sqft - 10 stories	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258	--	--	100000	--	--	--	--	23,125	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.02383	0.02678	0.00007	0.00295	0.00104	0.00074
4	2028	Building - 100000 sqft - 10 stories	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	100000	--	--	--	--	12,333	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.01271	0.01428	0.00003	0.00157	0.00055	0.00040
4	2028	Building - 100000 sqft - 10 stories	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	685.234	685.234	258	--	--	--	--	--	--	--	348,300	2.62176	0.03057	0.00238	0.02707	0.00755	0.04304	1.00659	0.01174	0.00091	0.01039	0.00290	0.01652
4	2028	Building - 100000 sqft - 10 stories	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	100000	--	--	--	0.0024	2,400	2.89395	3.97422	0.00570	0.46196	0.16578	0.06742	0.00766	0.01051	0.00002	0.00122	0.00044	0.00018
5	2028	Access Road	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	1115	40	--	--	--	--	--	647	2.89395	3.97422	0.00570	0.46196	0.16578	0.06742	0.00206	0.00283	0.00000	0.00033	0.00012	0.00005
5	2028	Access Road	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	1115	40	--	--	--	--	--	10,314	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.01063	0.01195	0.00003	0.00131	0.00046	0.00033
5	2028	Access Road	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	1115	40	--	--	--	--	--	917	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.00094	0.00106	0.00000	0.00012	0.00004	0.00003
5	2028	Access Road	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	1115	40	--	--	--	--	--	5,501	0.93483	1.05072	0.00257	0.11562	0.04070	0.02922	0.00567	0.00637	0.00002	0.00070	0.00025	0.00018

[illegible]

Fugitive Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive Source Type	Number of Months	CO	NOx	SO_2	PM_{10}	VOC
1	2028	Building - 10000 sqft - 1 story	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.00855	0.00000
1	2028	Building - 10000 sqft - 1 story	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.01195	0.00000
1	2028	Building - 10000 sqft - 1 story	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.03535	0.00000
2	2028	Building - 10000 sqft - 1 story	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.00855	0.00000
2	2028	Building - 10000 sqft - 1 story	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.01195	0.00000
2	2028	Building - 10000 sqft - 1 story	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.03535	0.00000
3	2028	Parking Structure - 240000 sqft - G+2 stori	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.29203
3	2028	Parking Structure - 240000 sqft - G+2 stori	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.20535	0.00000
3	2028	Parking Structure - 240000 sqft - G+2 stori	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.02995	0.00000
3	2028	Parking Structure - 240000 sqft - G+2 stori	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.08970	0.00000
4	2028	Building - 100000 sqft - 10 stories	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.08555	0.00000
4	2028	Building - 100000 sqft - 10 stories	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.01795	0.00000
4	2028	Building - 100000 sqft - 10 stories	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.05435	0.00000
5	2028	Access Road	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.05406
5	2028	Access Road	Asphalt Storage and Batching	12	0.10790	0.00675	0.00124	0.00740	0.00334
5	2028	Access Road	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.03815	0.00000
5	2028	Access Road	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.02395	0.00000
5	2028	Access Road	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.07385	0.00000
5	2028	Access Road	Soil Handling	12	0.00000	0.00000	0.00000	0.01260	0.00000
5	2028	Access Road	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	0.00000
[illegible]									
5	2028	Taxiways	Asphalt Storage and Batching	12	0.53350	0.03330	0.00615	0.03655	[illegible]
5	2028	Taxiways	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.18865	[illegible]
5	2028	Taxiways	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.04190	[illegible]
5	2028	Taxiways	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.13420	[illegible]
5	2028	Taxiways	Soil Handling	12	0.00000	0.00000	0.00000	0.06240	[illegible]
5	2028	Taxiways	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	[illegible]
1	2028	Building - 10000 sqft - 1 story	Concrete Mixing/Batching	6	0.00000	0.00000	0.00000	0.00855	[illegible]
1	2028	Building - 10000 sqft - 1 story	Material Movement (Paved Roads)	6	0.00000	0.00000	0.00000	0.00600	[illegible]
1	2028	Building - 10000 sqft - 1 story	Material Movement (Unpaved Roads)	6	0.00000	0.00000	0.00000	0.01765	[illegible]
2	2028	Demolition - Concrete	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.00600	[illegible]
2	2028	Demolition - Concrete	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.01805	[illegible]
2	2028	Demolition - Concrete	Soil Handling	12	0.00000	0.00000	0.00000	0.00484	[illegible]
2	2028	Demolition - Concrete	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	[illegible]
3	2028	Building - 100000 sqft - 10 stories	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.08555	[illegible]
3	2028	Building - 100000 sqft - 10 stories	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.01795	[illegible]
3	2028	Building - 100000 sqft - 10 stories	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.05435	[illegible]
				TOTAL (Tons Per Year)	1.20635	0.07535	0.01389	2.28599	[illegible]

Total Construction Emissions By Source

Emission Source	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
NonRoad	3.969	9.887	0.029	0.679	0.659	0.577
OnRoad	25.501	0.874	0.024	0.323	0.095	0.426
Fugitive	1.206	0.075	0.014	2.286	--	0.951
TOTAL (Tons Per Year)	**30.677**	**10.837**	**0.067**	**3.288**	**0.754**	**1.953**

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INPUT DATA AND SPECIFICATIONS

State/County
Texas
Dallas County

Scenarios

Scer	Year	Number of	Season	Average Daily Temp (degF)	Max Daily Temp Change (degF)	Min Daily Temp Change (degF)
1	2028	12	Summer	T<=10	20 <= Change in T	20 <= Change in T
2	2028	12	Summer	T<=10	20 <= Change in T	20 <= Change in T
3	2028	12	Summer	T<=10	20 <= Change in T	20 <= Change in T
4	2028	12	Summer	T<=10	20 <= Change in T	20 <= Change in T
5	2028	12	Summer	T<=10	20 <= Change in T	20 <= Change in T
6						

Project Final Selections

Scer	Project	Constructi	Equipment	Fuel Type
1	Building - 10000 sqft - 1 story	Concrete F	Backhoe	Diesel
1	Building - 10000 sqft - 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel
1	Building - 10000 sqft - 1 story	Concrete F	Fork Truck	Diesel
1	Building - 10000 sqft - 1 story	Concrete F	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel
1	Building - 10000 sqft - 1 story	Constructi	Survey Crew Trucks	Diesel
1	Building - 10000 sqft - 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel
1	Building - 10000 sqft - 1 story	Exterior W	Fork Truck	Diesel
1	Building - 10000 sqft - 1 story	Exterior W	Man Lift	Diesel
1	Building - 10000 sqft - 1 story	Exterior W	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel
1	Building - 10000 sqft - 1 story	Interior Bu	Fork Truck	Diesel
1	Building - 10000 sqft - 1 story	Interior Bu	Man Lift	Diesel
1	Building - 10000 sqft - 1 story	Interior Bu	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel
1	Building - 10000 sqft - 1 story	Roofing	High Lift	Diesel
1	Building - 10000 sqft - 1 story	Roofing	Man Lift (Fascia Construction)	Diesel
1	Building - 10000 sqft - 1 story	Roofing	Material Deliveries	Diesel
1	Building - 10000 sqft - 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel
1	Building - 10000 sqft - 1 story	Security &	High Lift	Diesel
1	Building - 10000 sqft - 1 story	Security &	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Structural	40 Ton Crane	Diesel
1	Building - 10000 sqft - 1 story	Structural	Fork Truck	Diesel
1	Building - 10000 sqft - 1 story	Structural	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Backhoe	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Fork Truck	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Tool Truck	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel
2	Building - 10000 sqft - 1 story	Constructi	Survey Crew Trucks	Diesel
2	Building - 10000 sqft - 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel
2	Building - 10000 sqft - 1 story	Exterior W	Fork Truck	Diesel
2	Building - 10000 sqft - 1 story	Exterior W	Man Lift	Diesel
2	Building - 10000 sqft - 1 story	Exterior W	Tool Truck	Diesel
2	Building - 10000 sqft - 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel
2	Building - 10000 sqft - 1 story	Interior Bu	Fork Truck	Diesel
2	Building - 10000 sqft - 1 story	Interior Bu	Man Lift	Diesel
2	Building - 10000 sqft - 1 story	Interior Bu	Tool Truck	Diesel
2	Building - 10000 sqft - 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel
2	Building - 10000 sqft - 1 story	Roofing	High Lift	Diesel
2	Building - 10000 sqft - 1 story	Roofing	Man Lift (Fascia Construction)	Diesel
2	Building - 10000 sqft - 1 story	Roofing	Material Deliveries	Diesel
2	Building - 10000 sqft - 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel
2	Building - 10000 sqft - 1 story	Security &	High Lift	Diesel
2	Building - 10000 sqft - 1 story	Security &	Tool Truck	Diesel
2	Building - 10000 sqft - 1 story	Structural	40 Ton Crane	Diesel
2	Building - 10000 sqft - 1 story	Structural	Fork Truck	Diesel
2	Building - 10000 sqft - 1 story	Structural	Tool Truck	Diesel
2	Building - 10000 sqft - 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel
3	Parking Structure - 240000 s	Asphalt Pa	Asphalt Paver	Diesel
3	Parking Structure - 240000 s	Asphalt Pa	Front Loader for Subgrade Materials	Diesel
3	Parking Structure - 240000 s	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel
3	Parking Structure - 240000 s	Concrete F	40 Ton Rough Terrain Crane	Diesel
3	Parking Structure - 240000 s	Concrete F	Backhoe	Diesel
3	Parking Structure - 240000 s	Concrete F	Caisson Drilling Rig	Diesel
3	Parking Structure - 240000 s	Concrete F	Concrete Pump	Diesel
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel
3	Parking Structure - 240000 s	Concrete F	Excavator	Diesel
3	Parking Structure - 240000 s	Concrete F	Fork Truck	Diesel
3	Parking Structure - 240000 s	Concrete F	Front Loader	Diesel
3	Parking Structure - 240000 s	Concrete F	Tool Truck	Diesel
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Material Delivery	Diesel

3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Stone Delivery	Diesel	
3	Parking Structure - 240000 s	Concrete F	Trencher for U/G Piping	Diesel	
3	Parking Structure - 240000 s	Concrete F	90 Ton Crane	Diesel	
3	Parking Structure - 240000 s	Concrete F	Concrete Boom Pump	Diesel	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Steel Deliveries	Diesel	
3	Parking Structure - 240000 s	Concrete F	Trowel Machines (4) machines	Diesel	
3	Parking Structure - 240000 s	Constructi	Survey Crew Trucks	Diesel	
3	Parking Structure - 240000 s	Constructi	Tractor Trailers Temp Fac.	Diesel	
3	Parking Structure - 240000 s	Lights and	Forklift	Diesel	
3	Parking Structure - 240000 s	Lights and	High Lift	Diesel	
3	Parking Structure - 240000 s	Lights and	Tool Truck	Diesel	
3	Parking Structure - 240000 s	Lights and	Trencher	Diesel	
3	Parking Structure - 240000 s	Precast Cc	40 Ton Rough Terrain	Diesel	
3	Parking Structure - 240000 s	Precast Cc	Fork Truck	Diesel	
3	Parking Structure - 240000 s	Precast Cc	Tractor Trailer- Material Delivery	Diesel	
3	Parking Structure - 240000 s	Security &	High Lift	Diesel	
3	Parking Structure - 240000 s	Security &	Tool Truck	Diesel	
3	Parking Structure - 240000 s	Site Prep/I	Front Loader	Diesel	
3	Parking Structure - 240000 s	Site Prep/I	Tractor Trailer with Boom Hoist- Curbs Del	Diesel	
3	Parking Structure - 240000 s	Site Prep/I	Truck for Topsoil & Seed Del&Spread	Diesel	
4	Building - 100000 sqft- 10 st	Concrete F	Backhoe	Diesel	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Pump	Diesel	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Ready Mix Trucks	Diesel	
4	Building - 100000 sqft- 10 st	Concrete F	Excavator	Diesel	
4	Building - 100000 sqft- 10 st	Concrete F	Fork Truck	Diesel	
4	Building - 100000 sqft- 10 st	Concrete F	Tool Truck	Diesel	
4	Building - 100000 sqft- 10 st	Concrete F	Tractor Trailer- Material Delivery	Diesel	
4	Building - 100000 sqft- 10 st	Constructi	Survey Crew Trucks	Diesel	
4	Building - 100000 sqft- 10 st	Constructi	Tractor Trailers Temp Fac.	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Fork Truck	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Generator	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Mixer	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Wheel Truck	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Man Lift	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Tool Truck	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	
4	Building - 100000 sqft- 10 st	Interior Bu	Fork Truck	Diesel	
4	Building - 100000 sqft- 10 st	Interior Bu	Man Lift	Diesel	
4	Building - 100000 sqft- 10 st	Interior Bu	Tool Truck	Diesel	
4	Building - 100000 sqft- 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	High Lift	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	Man Lift	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	Material Deliveries	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	
4	Building - 100000 sqft- 10 st	Security &	High Lift	Diesel	
4	Building - 100000 sqft- 10 st	Security &	Tool Truck	Diesel	
4	Building - 100000 sqft- 10 st	Structural	90 Ton Crane	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Concrete Pump	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Concrete Truck	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Fork Truck	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Tool Truck	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Trowel Machine	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	
5	Access Road	Asphalt Pl	Asphalt Paver	Diesel	
5	Access Road	Asphalt Pl	Dump Truck	Diesel	
5	Access Road	Asphalt Pl	Other General Equipment	Diesel	
5	Access Road	Asphalt Pl	Pickup Truck	Diesel	
5	Access Road	Asphalt Pl	Roller	Diesel	
5	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	
5	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	
5	Access Road	Clearing a	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
5	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	
5	Access Road	Clearing a	Pickup Truck	Diesel	
5	Access Road	Concrete F	Air Compressor	Diesel	
5	Access Road	Concrete F	Concrete Saws	Diesel	
5	Access Road	Concrete F	Concrete Truck	Diesel	
5	Access Road	Concrete F	Other General Equipment	Diesel	
5	Access Road	Concrete F	Pickup Truck	Diesel	
5	Access Road	Concrete F	Rubber Tired Loader	Diesel	
5	Access Road	Concrete F	Slip Form Paver	Diesel	
5	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	
5	Access Road	Curbing	Concrete Truck	Diesel	
5	Access Road	Curbing	Curb/Gutter Paver	Diesel	
5	Access Road	Curbing	Other General Equipment	Diesel	
5	Access Road	Curbing	Pickup Truck	Diesel	
5	Access Road	Drainage -	Dozer	Diesel	
5	Access Road	Drainage -	Dump Truck	Diesel	
5	Access Road	Drainage -	Excavator	Diesel	
5	Access Road	Drainage -	Loader	Diesel	
5	Access Road	Drainage -	Other General Equipment	Diesel	
5	Access Road	Drainage -	Pickup Truck	Diesel	
5	Access Road	Drainage -	Roller	Diesel	
5	Access Road	Drainage -	Dump Truck	Diesel	
5	Access Road	Drainage -	Loader	Diesel	
5	Access Road	Drainage -	Other General Equipment	Diesel	
5	Access Road	Drainage -	Pickup Truck	Diesel	
5	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Dust Contr	Water Truck	Diesel	
5	Access Road	Excavatior	Dozer	Diesel	
5	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	
5	Access Road	Excavatior	Pickup Truck	Diesel	
5	Access Road	Excavatior	Roller	Diesel	
5	Access Road	Excavatior	Dozer	Diesel	
5	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	
5	Access Road	Excavatior	Excavator	Diesel	
5	Access Road	Excavatior	Pickup Truck	Diesel	
5	Access Road	Excavatior	Roller	Diesel	
5	Access Road	Excavatior	Scraper	Diesel	
5	Access Road	Excavatior	Dozer	Diesel	
5	Access Road	Fencing	Concrete Truck	Diesel	
5	Access Road	Fencing	Dump Truck	Diesel	
5	Access Road	Fencing	Other General Equipment	Diesel	
5	Access Road	Fencing	Pickup Truck	Diesel	
5	Access Road	Fencing	Skid Steer Loader	Diesel	
5	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Grading	Dozer	Diesel	
5	Access Road	Grading	Grader	Diesel	
5	Access Road	Grading	Roller	Diesel	
5	Access Road	Hydroseec	Hydroseeder	Diesel	
5	Access Road	Hydroseec	Off-Road Truck	Diesel	
5	Access Road	Markings	Flatbed Truck	Diesel	
5	Access Road	Markings	Other General Equipment	Diesel	
5	Access Road	Markings	Pickup Truck	Diesel	
5	Access Road	Sidewalks	Concrete Truck	Diesel	
5	Access Road	Sidewalks	Dump Truck	Diesel	
5	Access Road	Sidewalks	Pickup Truck	Diesel	
5	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Sidewalks	Vibratory Compactor	Diesel	
5	Access Road	Soil Erosio	Other General Equipment	Diesel	
5	Access Road	Soil Erosio	Pickup Truck	Diesel	
5	Access Road	Soil Erosio	Pumps	Diesel	
5	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Street Ligh	Dump Truck	Diesel	
5	Access Road	Street Ligh	Loader	Diesel	
5	Access Road	Street Ligh	Other General Equipment	Diesel	
5	Access Road	Street Ligh	Pickup Truck	Diesel	
5	Access Road	Street Ligh	Skid Steer Loader	Diesel	
5	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Subbase P	Dozer	Diesel	
5	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	
5	Access Road	Subbase P	Pickup Truck	Diesel	
5	Access Road	Subbase P	Roller	Diesel	
5	Access Road	Topsoil Pl	Dozer	Diesel	
5	Access Road	Topsoil Pl	Dump Truck	Diesel	
5	Access Road	Topsoil Pl	Pickup Truck	Diesel	
5	Access Road	Tree Plant	Flatbed Truck	Diesel	
5	Access Road	Tree Plant	Other General Equipment	Diesel	
5	Access Road	Tree Plant	Pickup Truck	Diesel	
5	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	

Overall Size

Scen	Project	Project Siz	User Input	Unit
1	Building - 10000 sqft- 1 story	What is th	0.293	$ Million(s)
2	Building - 10000 sqft- 1 story	What is th	15.88	$ Million(s)
3	Parking Structure - 240000 s	What is th	76.007	$ Million(s)
4	Building - 100000 sqft- 10 st	What is th	62.294	$ Million(s)
5	Access Road	What is th	24.406	$ Million(s)
5	Access Road	What is th	1115	Feet
5	Access Road	What is th	40	Feet

Size Detail (Estimated based on engineering experience)

Scen	Project	Constructi	Default Activity Size	Unit	User Activity Size		
5	Access Road	Asphalt Pl	4950.6	Square Yards		1.02	0.05406
5	Access Road	Clearing a	1.3	Acres			
5	Access Road	Concrete F	2062.8	Cubic Yards			
5	Access Road	Curbing	2230	Linear Feet			
5	Access Road	Drainage -	1125	Linear Feet			
5	Access Road	Drainage -	2250	Linear Feet			
5	Access Road	Dust Contr	360	Days			
5	Access Road	Excavatior	2062.8	Cubic Yards			
5	Access Road	Excavatior	2062.8	Cubic Yards			
5	Access Road	Excavatior	4950.6	Square Yards			
5	Access Road	Fencing	1115	Linear Feet			
5	Access Road	Grading	6243.8	Square Yards			
5	Access Road	Hydroseec	56250	Square Feet			
5	Access Road	Markings	44600	Square Feet			
5	Access Road	Sidewalks	6690	Square Feet			
5	Access Road	Soil Erosio	1.3	Acres			
5	Access Road	Street Ligh	11.2	Lights			
5	Access Road	Subbase P	4950.6	Square Yards			
5	Access Road	Subbase P	1650.2	Cubic Yards			
5	Access Road	Topsoil Pl	1040.6	Cubic Yards			
5	Access Road	Tree Plant	0	Trees			

Activity: Non-Road (Estimated based on engineering experience)

Scen	Project	Constructi	Equipment	Fuel Type	Activity Size	Activity Rate	Default Activity	Activity Unit	User Activity Data
1	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
1	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
1	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours	
1	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours	
1	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours	
1	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
1	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
1	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours	
1	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours	
1	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
1	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
2	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours	
2	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours	
2	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
2	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
2	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
2	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours	
2	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
2	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
2	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours	
2	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours	
2	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
2	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
2	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
2	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
2	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
3	Parking Structure - 240000 s	Asphalt Pa	Asphalt Paver	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
3	Parking Structure - 240000 s	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
3	Parking Structure - 240000 s	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	240000.00 SF	0.00025 Hours per 1.00 SF	60	hours	
3	Parking Structure - 240000 s	Concrete F	40 Ton Rough Terrain Crane	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
3	Parking Structure - 240000 s	Concrete F	Backhoe	Diesel	240000.00 SF	0.00167 Hours per 1.00 SF	400.8	hours	
3	Parking Structure - 240000 s	Concrete F	Caisson Drilling Rig	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
3	Parking Structure - 240000 s	Concrete F	Concrete Pump	Diesel	240000.00 SF	0.000375 Hours per 1.00 SF	90	hours	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	240000.00 SF	0.00125 Hours per 1.00 SF	300	hours	
3	Parking Structure - 240000 s	Concrete F	Excavator	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
3	Parking Structure - 240000 s	Concrete F	Fork Truck	Diesel	240000.00 SF	0.00167 Hours per 1.00 SF	400.8	hours	
3	Parking Structure - 240000 s	Concrete F	Front Loader	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
3	Parking Structure - 240000 s	Concrete F	Tool Truck	Diesel	240000.00 SF	0.00042 Hours per 1.00 SF	100.8	hours	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Material Delivery	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Stone Delivery	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
3	Parking Structure - 240000 s	Concrete F	Trencher for U/G Piping	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
3	Parking Structure - 240000 s	Concrete F	90 Ton Crane	Diesel	240000.00 SF	0.002 Hours per 1.00 SF	480	hours	
3	Parking Structure - 240000 s	Concrete F	Concrete Boom Pump	Diesel	240000.00 SF	0.0015 Hours per 1.00 SF	360	hours	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	240000.00 SF	0.0015 Hours per 1.00 SF	360	hours	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Steel Deliveries	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Concrete F	Trowel Machines (4) machines	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Constructi	Survey Crew Trucks	Diesel	240000.00 SF	0.00004 Hours per 1.00 SF	9.6	hours	
3	Parking Structure - 240000 s	Constructi	Tractor Trailers Temp Fac.	Diesel	240000.00 SF	0.00002 Hours per 1.00 SF	4.8	hours	
3	Parking Structure - 240000 s	Lights and	Forklift	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Lights and	High Lift	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Lights and	Tool Truck	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
3	Parking Structure - 240000 s	Lights and	Trencher	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
3	Parking Structure - 240000 s	Precast Cc	40 Ton Rough Terrain	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
3	Parking Structure - 240000 s	Precast Cc	Fork Truck	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
3	Parking Structure - 240000 s	Precast Cc	Tractor Trailer- Material Delivery	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Security &	High Lift	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
3	Parking Structure - 240000 s	Security &	Tool Truck	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
3	Parking Structure - 240000 s	Site Prep/I	Front Loader	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
3	Parking Structure - 240000 s	Site Prep/I	Tractor Trailer with Boom Hoist- Curbs Del	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
3	Parking Structure - 240000 s	Site Prep/I	Truck for Topsoil & Seed Del&Spread	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Backhoe	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Pump	Diesel	100000.00 SF	0.0018 Hours per 1.00 SF	180	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Ready Mix Trucks	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Excavator	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Fork Truck	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Tool Truck	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours	
4	Building - 100000 sqft- 10 st	Constructi	Survey Crew Trucks	Diesel	100000.00 SF	0.0001 Hours per 1.00 SF	10	hours	
4	Building - 100000 sqft- 10 st	Constructi	Tractor Trailers Temp Fac.	Diesel	100000.00 SF	0.00004 Hours per 1.00 SF	4	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Fork Truck	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Generator	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Mixer	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Wheel Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Man Lift	Diesel	100000.00 SF	0.0168 Hours per 1.00 SF	1680	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Tool Truck	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours	
4	Building - 100000 sqft- 10 st	Interior Bu	Fork Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
4	Building - 100000 sqft- 10 st	Interior Bu	Man Lift	Diesel	100000.00 SF	0.032 Hours per 1.00 SF	3200	hours	
4	Building - 100000 sqft- 10 st	Interior Bu	Tool Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
4	Building - 100000 sqft- 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
4	Building - 100000 sqft- 10 st	Roofing	High Lift	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
4	Building - 100000 sqft- 10 st	Roofing	Man Lift	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
4	Building - 100000 sqft- 10 st	Roofing	Material Deliveries	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
4	Building - 100000 sqft- 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
4	Building - 100000 sqft- 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours	
4	Building - 100000 sqft- 10 st	Security &	High Lift	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours	
4	Building - 100000 sqft- 10 st	Security &	Tool Truck	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours	
4	Building - 100000 sqft- 10 st	Structural	90 Ton Crane	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours	
4	Building - 100000 sqft- 10 st	Structural	Concrete Pump	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
4	Building - 100000 sqft- 10 st	Structural	Concrete Truck	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
4	Building - 100000 sqft- 10 st	Structural	Fork Truck	Diesel	100000.00 SF	0.0064 Hours per 1.00 SF	640	hours	
4	Building - 100000 sqft- 10 st	Structural	Tool Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
4	Building - 100000 sqft- 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours	
4	Building - 100000 sqft- 10 st	Structural	Trowel Machine	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
4	Building - 100000 sqft- 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0072 Hours per 1.00 SF	720	hours	
5	Access Road	Asphalt Pl	Asphalt Paver	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
5	Access Road	Asphalt Pl	Dump Truck	Diesel	4950.60 SY	8 Hours per 1777.00 SY	22.29	hours	
5	Access Road	Asphalt Pl	Other General Equipment	Diesel	4950.60 SY	16 Hours per 6400.00 SY	12.38	hours	
5	Access Road	Asphalt Pl	Pickup Truck	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
5	Access Road	Asphalt Pl	Roller	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
5	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
5	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	4950.60 SY	8 Hours per 5000.00 SY	7.92	hours	
5	Access Road	Clearing a	Chain Saw	Diesel	1.30 Acre	12 Hours per 1.00 Acre	15.6	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
5	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	1.30 Acre	12 Hours per 1.00 Acre	15.6	hours	
5	Access Road	Clearing a	Pickup Truck	Diesel	1.30 Acre	16 Hours per 1.00 Acre	20.8	hours	
5	Access Road	Concrete F	Air Compressor	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Concrete F	Concrete Saws	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Concrete F	Concrete Truck	Diesel	2062.80 CY	8 Hours per 240.00 CY	68.76	hours	
5	Access Road	Concrete F	Other General Equipment	Diesel	2062.80 CY	16 Hours per 1000.00 CY	33	hours	
5	Access Road	Concrete F	Pickup Truck	Diesel	2062.80 CY	24 Hours per 1000.00 CY	49.51	hours	
5	Access Road	Concrete F	Rubber Tired Loader	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Concrete F	Slip Form Paver	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Curbing	Concrete Truck	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
5	Access Road	Curbing	Curb/Gutter Paver	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
5	Access Road	Curbing	Other General Equipment	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
5	Access Road	Curbing	Pickup Truck	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
5	Access Road	Drainage -	Dozer	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Dump Truck	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Excavator	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Loader	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Other General Equipment	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Pickup Truck	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Roller	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Dump Truck	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Drainage -	Loader	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Drainage -	Other General Equipment	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Drainage -	Pickup Truck	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Dust Contr	Water Truck	Diesel	360.00 Day	8 Hours per 1.00 Day	2880	hours	
5	Access Road	Excavatior	Dozer	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
5	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
5	Access Road	Excavatior	Pickup Truck	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
5	Access Road	Excavatior	Roller	Diesel	2062.80 CY	8 Hours per 1300.00 CY	12.69	hours	
5	Access Road	Excavatior	Dozer	Diesel	2062.80 CY	8 Hours per 800.00 CY	20.63	hours	
5	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	2062.80 CY	8 Hours per 300.00 CY	55.01	hours	
5	Access Road	Excavatior	Excavator	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Excavatior	Pickup Truck	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Excavatior	Roller	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Excavatior	Scraper	Diesel	2062.80 CY	8 Hours per 800.00 CY	20.63	hours	
5	Access Road	Excavatior	Dozer	Diesel	4950.60 SY	8 Hours per 5100.00 SY	7.77	hours	
5	Access Road	Fencing	Concrete Truck	Diesel	1115.00 LF	2 Hours per 180.00 LF	12.39	hours	
5	Access Road	Fencing	Dump Truck	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Fencing	Other General Equipment	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Fencing	Pickup Truck	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Fencing	Skid Steer Loader	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Grading	Dozer	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
5	Access Road	Grading	Grader	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
5	Access Road	Grading	Roller	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
5	Access Road	Hydroseec	Hydroseeder	Diesel	56250.00 SF	8 Hours per 80000.00 SF	5.63	hours	
5	Access Road	Hydroseec	Off-Road Truck	Diesel	56250.00 SF	8 Hours per 80000.00 SF	5.63	hours	
5	Access Road	Markings	Flatbed Truck	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
5	Access Road	Markings	Other General Equipment	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
5	Access Road	Markings	Pickup Truck	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
5	Access Road	Sidewalks	Concrete Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Sidewalks	Dump Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Sidewalks	Pickup Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Sidewalks	Vibratory Compactor	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Soil Erosio	Other General Equipment	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
5	Access Road	Soil Erosio	Pickup Truck	Diesel	1.30 Acre	8 Hours per 1.00 Acre	10.4	hours	
5	Access Road	Soil Erosio	Pumps	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
5	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
5	Access Road	Street Ligh	Dump Truck	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Loader	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Other General Equipment	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Pickup Truck	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Skid Steer Loader	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Subbase P	Dozer	Diesel	4950.60 SY	8 Hours per 3800.00 SY	10.42	hours	
5	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	1650.20 CY	8 Hours per 180.00 CY	73.34	hours	
5	Access Road	Subbase P	Pickup Truck	Diesel	4950.60 SY	8 Hours per 3800.00 SY	10.42	hours	
5	Access Road	Subbase P	Roller	Diesel	1650.20 CY	8 Hours per 1300.00 CY	10.16	hours	
5	Access Road	Topsoil Pl	Dozer	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
5	Access Road	Topsoil Pl	Dump Truck	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
5	Access Road	Topsoil Pl	Pickup Truck	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
5	Access Road	Tree Plant	Flatbed Truck	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
5	Access Road	Tree Plant	Other General Equipment	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
5	Access Road	Tree Plant	Pickup Truck	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
5	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	

Activity: On-Road (Estimated based on engineering experience)

Scen	Project	Equipment	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Number of Employees Or $M*11 (Whic	Number of F	Project Length	Project Width	Project Area	Building Hei	Open Space	Number of T	Activity Size	Activity Rate	Default VMT	User VMT
1	Building - 10000 sqft- 1 story	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	2313	
1	Building - 10000 sqft- 1 story	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	1233	
1	Building - 10000 sqft- 1 story	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	3.223	258	--	--	--	--	--	--	--	--	24946	
1	Building - 10000 sqft- 1 story	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	0.0016	160	
2	Building - 10000 sqft- 1 story	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	2313	
2	Building - 10000 sqft- 1 story	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	1233	
2	Building - 10000 sqft- 1 story	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	174.68	258	--	--	--	--	--	--	--	--	1352023	
2	Building - 10000 sqft- 1 story	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	0.0016	160	
3	Parking Structure - 240000 s	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	--	55500	
3	Parking Structure - 240000 s	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	--	29600	
3	Parking Structure - 240000 s	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	836.077	258	--	--	--	--	--	--	--	--	6471236	
3	Parking Structure - 240000 s	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	0.00083	1992	
4	Building - 100000 sqft- 10 st	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	--	23125	
4	Building - 100000 sqft- 10 st	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	--	12333	
4	Building - 100000 sqft- 10 st	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	685.234	258	--	--	--	--	--	--	--	--	5303711	
4	Building - 100000 sqft- 10 st	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	0.0024	2400	
5	Access Road	Asphalt 18	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	1115	40	--	--	--	--	--	--	647	
5	Access Road	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	1115	40	--	--	--	--	--	--	10314	
5	Access Road	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	1115	40	--	--	--	--	--	--	917	
5	Access Road	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	1115	40	--	--	--	--	--	--	5501	
5	Access Road	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	268.466	258	--	--	--	--	--	--	--	--	2077927	

Emission Factor: Non-Road (from NONROAD)

Scen	Project	Constructi	Equipment	Fuel Type	Avg Rated HP	Load Factor	CO (g/hp-hr)	NOx (g/hp-h	CO2 (g/hp-hr)	SO2 (g/hp-hr)	PM10 (g/hp-hr)	PM2.5 (g/hp	VOC Exhaust	VOC Evaporative (g/equipment-day)	
1	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
1	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
1	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
1	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
1	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
1	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
1	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
1	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
1	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
1	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
1	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
1	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
1	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
2	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
2	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
2	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
2	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
2	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
2	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
2	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
2	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
2	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
2	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
2	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
2	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Asphalt Pa	Asphalt Paver	Diesel	175	0.59	0.149575253	0.309633	536.408226	0.0025948	0.012723976	0.0117061	0.1394128	0.0050909	
3	Parking Structure - 240000 s	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
3	Parking Structure - 240000 s	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Concrete F	40 Ton Rough Terrain Crane	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
3	Parking Structure - 240000 s	Concrete F	Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
3	Parking Structure - 240000 s	Concrete F	Caisson Drilling Rig	Diesel	175	0.43	0.410340692	1.432258	530.466737	0.00284717	0.092062179	0.0846972	0.1900934	0.1532392	
3	Parking Structure - 240000 s	Concrete F	Concrete Pump	Diesel	11	0.43	4.446359739	4.335258	588.578119	0.00396767	0.353749953	0.32545	0.5910921	0.0013911	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Concrete F	Excavator	Diesel	175	0.59	0.141893981	0.281357	536.40904	0.00258869	0.010423099	0.0095893	0.1391293	0	
3	Parking Structure - 240000 s	Concrete F	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
3	Parking Structure - 240000 s	Concrete F	Front Loader	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
3	Parking Structure - 240000 s	Concrete F	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Stone Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Concrete F	Trencher for U/G Piping	Diesel	75	0.59	0.554460963	3.042795	595.711909	0.00294544	0.041595114	0.0382675	0.1468651	0.0106997	
3	Parking Structure - 240000 s	Concrete F	90 Ton Crane	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
3	Parking Structure - 240000 s	Concrete F	Concrete Boom Pump	Diesel	11	0.43	4.446359739	4.335258	588.578119	0.00396767	0.353749953	0.32545	0.5910921	0.0013911	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Concrete F	Trowel Machines (4) machines	Diesel	600	0.59	0.387323559	0.926074	536.373788	0.00274984	0.052046484	0.0478828	0.150759	0.3430677	
3	Parking Structure - 240000 s	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Lights and	Forklift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
3	Parking Structure - 240000 s	Lights and	High Lift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
3	Parking Structure - 240000 s	Lights and	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Lights and	Trencher	Diesel	75	0.59	0.554460963	3.042795	595.711909	0.00294544	0.041595114	0.0382675	0.1468651	0.0106997	
3	Parking Structure - 240000 s	Precast Cc	40 Ton Rough Terrain	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
3	Parking Structure - 240000 s	Precast Cc	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
3	Parking Structure - 240000 s	Precast Cc	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Security &	High Lift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
3	Parking Structure - 240000 s	Security &	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Site Prep/l	Front Loader	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
3	Parking Structure - 240000 s	Site Prep/l	Tractor Trailer with Boom Hoist- Curbs De	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
3	Parking Structure - 240000 s	Site Prep/l	Truck for Topsoil & Seed Del&Spread	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Concrete F	Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Pump	Diesel	11	0.43	4.446359739	4.335258	588.578119	0.00396767	0.353749953	0.32545	0.5910921	0.0013911	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Concrete F	Excavator	Diesel	175	0.59	0.141893981	0.281357	536.40904	0.00258869	0.010423099	0.0095893	0.1391293	0	
4	Building - 100000 sqft- 10 st	Concrete F	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
4	Building - 100000 sqft- 10 st	Concrete F	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Exterior W	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
4	Building - 100000 sqft- 10 st	Exterior W	Generator	Diesel	40	0.43	0.432148533	3.297691	589.835436	0.00301929	0.074422695	0.0684689	0.1760406	0.0072811	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Mixer	Diesel	600	0.59	0.387323559	0.926074	536.373788	0.00274984	0.052046484	0.0478828	0.150759	0.3430677	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Wheel Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Exterior W	Man Lift	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
4	Building - 100000 sqft- 10 st	Exterior W	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
4	Building - 100000 sqft- 10 st	Interior Bu	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
4	Building - 100000 sqft- 10 st	Interior Bu	Man Lift	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
4	Building - 100000 sqft- 10 st	Interior Bu	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Roofing	High Lift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
4	Building - 100000 sqft- 10 st	Roofing	Man Lift	Diesel	75	0.21	2.189025294	3.683794	694.807695	0.00381665	0.24295938	0.2235226	0.393127	0.0729827	
4	Building - 100000 sqft- 10 st	Roofing	Material Deliveries	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
4	Building - 100000 sqft- 10 st	Security &	High Lift	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
4	Building - 100000 sqft- 10 st	Security &	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Structural	90 Ton Crane	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
4	Building - 100000 sqft- 10 st	Structural	Concrete Pump	Diesel	11	0.43	4.446359739	4.335258	588.578119	0.00396767	0.353749953	0.32545	0.5910921	0.0013911	
4	Building - 100000 sqft- 10 st	Structural	Concrete Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Structural	Fork Truck	Diesel	100	0.59	0.395088607	0.281446	595.734836	0.00287509	0.010439097	0.009604	0.1392756	0	
4	Building - 100000 sqft- 10 st	Structural	Tool Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
4	Building - 100000 sqft- 10 st	Structural	Trowel Machine	Diesel	600	0.59	0.387323559	0.926074	536.373788	0.00274984	0.052046484	0.0478828	0.150759	0.3430677	
4	Building - 100000 sqft- 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.085218856	0.338029	530.619413	0.00257272	0.012159595	0.0111868	0.1396756	0.015123	
5	Access Road	Asphalt Pl	Asphalt Paver	Diesel	175	0.59	0.149575253	0.309633	536.408226	0.0025948	0.012723976	0.0117061	0.1394128	0.0050909	
5	Access Road	Asphalt Pl	Dump Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Asphalt Pl	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Asphalt Pl	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Asphalt Pl	Roller	Diesel	100	0.59	0.439329306	0.341713	595.732741	0.00288973	0.018192645	0.0167372	0.1399817	0.0067293	
5	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	75	0.21	2.328307751	3.670547	694.761751	0.00381541	0.284541654	0.2617783	0.4082868	0.1833595	
5	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355296472	4.461264	594.730474	0.00400921	0.354051992	0.3257278	0.47081	0	
5	Access Road	Clearing a	Chain Saw	Diesel	11	0.7	293.5350218	1.322993	685.996381	0.14019157	9.748189617	8.9683344	61.888356	25.002037	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE***
5	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	100	0.43	0.923111492	1.472593	589.727732	0.00314371	0.134590192	0.123823	0.2115997	0.161099	
5	Access Road	Clearing a	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Concrete F	Air Compressor	Diesel	100	0.43	0.372162561	0.479477	589.927825	0.00289957	0.029240374	0.0269011	0.1455582	0.0210241	
5	Access Road	Concrete F	Concrete Saws	Diesel	40	0.59	0.250985935	3.014499	595.735298	0.00287509	0.022089219	0.0203221	0.1391232	0	
5	Access Road	Concrete F	Concrete Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Concrete F	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Concrete F	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Concrete F	Rubber Tired Loader	Diesel	175	0.59	0.159013566	0.330315	536.406782	0.00260187	0.015508993	0.0142683	0.1398651	0.0103775	
5	Access Road	Concrete F	Slip Form Paver	Diesel	175	0.59	0.149575253	0.309633	536.408226	0.0025948	0.012723976	0.0117061	0.1394128	0.0050909	
5	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355296472	4.461264	594.730474	0.00400921	0.354051992	0.3257278	0.47081	0	
5	Access Road	Curbing	Concrete Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Curbing	Curb/Gutter Paver	Diesel	175	0.59	0.149575253	0.309633	536.408226	0.0025948	0.012723976	0.0117061	0.1394128	0.0050909	
5	Access Road	Curbing	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Curbing	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Drainage -	Dozer	Diesel	175	0.59	0.141585409	0.28803	536.409204	0.00258869	0.01035469	0.0095263	0.1390712	0	
5	Access Road	Drainage -	Dump Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Drainage -	Excavator	Diesel	175	0.59	0.141893981	0.281357	536.40904	0.00258869	0.010423099	0.0095893	0.1391293	0	
5	Access Road	Drainage -	Loader	Diesel	175	0.59	0.159013566	0.330315	536.406782	0.00260187	0.015508993	0.0142683	0.1398651	0.0103775	
5	Access Road	Drainage -	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Drainage -	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Drainage -	Roller	Diesel	100	0.59	0.439329306	0.341713	595.732741	0.00288973	0.018192645	0.0167372	0.1399817	0.0067293	
5	Access Road	Drainage -	Dump Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Drainage -	Loader	Diesel	175	0.59	0.159013566	0.330315	536.406782	0.00260187	0.015508993	0.0142683	0.1398651	0.0103775	
5	Access Road	Drainage -	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Drainage -	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
5	Access Road	Dust Contr	Water Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Excavation	Dozer	Diesel	175	0.59	0.141585409	0.28803	536.409204	0.00258869	0.01035469	0.0095263	0.1390712	0	
5	Access Road	Excavation	Dump Truck (12 cy)	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Excavation	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Excavation	Roller	Diesel	100	0.59	0.439329306	0.341713	595.732741	0.00288973	0.018192645	0.0167372	0.1399817	0.0067293	
5	Access Road	Excavation	Dozer	Diesel	175	0.59	0.141585409	0.28803	536.409204	0.00258869	0.01035469	0.0095263	0.1390712	0	
5	Access Road	Excavation	Dump Truck (12 cy)	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Excavation	Excavator	Diesel	175	0.59	0.141893981	0.281357	536.40904	0.00258869	0.010423099	0.0095893	0.1391293	0	
5	Access Road	Excavation	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Excavation	Roller	Diesel	100	0.59	0.439329306	0.341713	595.732741	0.00288973	0.018192645	0.0167372	0.1399817	0.0067293	
5	Access Road	Excavation	Scraper	Diesel	600	0.59	0.186282751	0.412372	536.405004	0.00262332	0.018766208	0.0172649	0.1404507	0.0907542	
5	Access Road	Excavation	Dozer	Diesel	175	0.59	0.141585409	0.28803	536.409204	0.00258869	0.01035469	0.0095263	0.1390712	0	
5	Access Road	Fencing	Concrete Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Fencing	Dump Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Fencing	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Fencing	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Fencing	Skid Steer Loader	Diesel	75	0.21	2.328307751	3.670547	694.761751	0.00381541	0.284541654	0.2617783	0.4082868	0.1833595	
5	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
5	Access Road	Grading	Dozer	Diesel	175	0.59	0.141585409	0.28803	536.409204	0.00258869	0.01035469	0.0095263	0.1390712	0	
5	Access Road	Grading	Grader	Diesel	300	0.59	0.119880982	0.28607	536.409033	0.00258869	0.010375115	0.0095451	0.1390886	0	
5	Access Road	Grading	Roller	Diesel	100	0.59	0.439329306	0.341713	595.732741	0.00288973	0.018192645	0.0167372	0.1399817	0.0067293	
5	Access Road	Hydroseed	Hydroseeder	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Hydroseed	Off-Road Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Markings	Flatbed Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Markings	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Markings	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Sidewalks	Concrete Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Sidewalks	Dump Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Sidewalks	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
5	Access Road	Sidewalks	Vibratory Compactor	Diesel	6	0.43	4.459721743	4.320419	588.586864	0.00396773	0.351140079	0.3230489	0.5881955	0.0002484	
5	Access Road	Soil Erosio	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Soil Erosio	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Soil Erosio	Pumps	Diesel	11	0.43	4.446359739	4.335258	588.578119	0.00396767	0.353749953	0.32545	0.5910921	0.0013911	
5	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
5	Access Road	Street Ligh	Dump Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Street Ligh	Loader	Diesel	175	0.59	0.159013566	0.330315	536.406782	0.00260187	0.015508993	0.0142683	0.1398651	0.0103775	
5	Access Road	Street Ligh	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Street Ligh	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Street Ligh	Skid Steer Loader	Diesel	75	0.21	2.328307751	3.670547	694.761751	0.00381541	0.284541654	0.2617783	0.4082868	0.1833595	
5	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	
5	Access Road	Subbase P	Dozer	Diesel	175	0.59	0.141585409	0.28803	536.409204	0.00258869	0.01035469	0.0095263	0.1390712	0	
5	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Subbase P	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Subbase P	Roller	Diesel	100	0.59	0.439329306	0.341713	595.732741	0.00288973	0.018192645	0.0167372	0.1399817	0.0067293	
5	Access Road	Topsoil Pla	Dozer	Diesel	175	0.59	0.141585409	0.28803	536.409204	0.00258869	0.01035469	0.0095263	0.1390712	0	
5	Access Road	Topsoil Pla	Dump Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Topsoil Pla	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Tree Plant	Flatbed Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Tree Plant	Other General Equipment	Diesel	175	0.43	0.128845409	0.398055	530.613119	0.00259627	0.019354188	0.0178059	0.1417588	0.0206314	
5	Access Road	Tree Plant	Pickup Truck	Diesel	600	0.59	0.141901032	0.281358	536.409027	0.00258869	0.010424664	0.0095907	0.1391307	0	
5	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	100	0.21	1.879733619	1.237555	695.170981	0.0036087	0.211509116	0.1945884	0.2731647	0.2135682	

Emission Factors: On-Road (from MOVES)

Scen	Project Type	Equipmen	Fuel Type	Roadway Type	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi)	PM2.5(g/mi)	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/veh	RV NOx(g/ve	RV CO2(g/ve	RV SO2(g/ve	RV PM10(g/v	RV PM2.5(g/	RV VOC(g/ve	RP VOC(g/veh-day)
1	Building - 10000 sqft- 1 story	Cement M	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
1	Building - 10000 sqft- 1 story	Dump Truc	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
1	Building - 10000 sqft- 1 story	Passenger	Gasoline	Urban Unrestricted Access	2.073621302	0.083591748	343.120272	0.004813	0.00432059	0.00397845	0.050516143	0.0045315	0.0016675	25.336607	1.3975153	268.48972	0.0037662	0.0328478	0.0302466	5.2186633	0.706242
1	Building - 10000 sqft- 1 story	Tractor Tra	Diesel	Urban Unrestricted Access	0.45811246	1.517676604	2511.529466	0.017187	0.03763467	0.03650691	0.090537771	0.0727759	0.0034639	22.509024	0.3935964	296.61491	0.0020298	0.0001463	0.000142	6.8800557	0
2	Building - 10000 sqft- 1 story	Cement M	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
2	Building - 10000 sqft- 1 story	Dump Truc	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
2	Building - 10000 sqft- 1 story	Passenger	Gasoline	Urban Unrestricted Access	2.073621302	0.083591748	343.120272	0.004813	0.00432059	0.00397845	0.050516143	0.0045315	0.0016675	25.336607	1.3975153	268.48972	0.0037662	0.0328478	0.0302466	5.2186633	0.706242
2	Building - 10000 sqft- 1 story	Tractor Tra	Diesel	Urban Unrestricted Access	0.45811246	1.517676604	2511.529466	0.017187	0.03763467	0.03650691	0.090537771	0.0727759	0.0034639	22.509024	0.3935964	296.61491	0.0020298	0.0001463	0.000142	6.8800557	0
3	Parking Structure - 240000 s	Cement M	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
3	Parking Structure - 240000 s	Dump Truc	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
3	Parking Structure - 240000 s	Passenger	Gasoline	Urban Unrestricted Access	2.073621302	0.083591748	343.120272	0.004813	0.00432059	0.00397845	0.050516143	0.0045315	0.0016675	25.336607	1.3975153	268.48972	0.0037662	0.0328478	0.0302466	5.2186633	0.706242
3	Parking Structure - 240000 s	Tractor Tra	Diesel	Urban Unrestricted Access	0.45811246	1.517676604	2511.529466	0.017187	0.03763467	0.03650691	0.090537771	0.0727759	0.0034639	22.509024	0.3935964	296.61491	0.0020298	0.0001463	0.000142	6.8800557	0
4	Building - 100000 sqft- 10 st	Cement M	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
4	Building - 100000 sqft- 10 st	Dump Truc	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
4	Building - 100000 sqft- 10 st	Passenger	Gasoline	Urban Unrestricted Access	2.073621302	0.083591748	343.120272	0.004813	0.00432059	0.00397845	0.050516143	0.0045315	0.0016675	25.336607	1.3975153	268.48972	0.0037662	0.0328478	0.0302466	5.2186633	0.706242
4	Building - 100000 sqft- 10 st	Tractor Tra	Diesel	Urban Unrestricted Access	0.45811246	1.517676604	2511.529466	0.017187	0.03763467	0.03650691	0.090537771	0.0727759	0.0034639	22.509024	0.3935964	296.61491	0.0020298	0.0001463	0.000142	6.8800557	0
5	Access Road	Asphalt 18	Diesel	Urban Unrestricted Access	0.45811246	1.517676604	2511.529466	0.017187	0.03763467	0.03650691	0.090537771	0.0727759	0.0034639	22.509024	0.3935964	296.61491	0.0020298	0.0001463	0.000142	6.8800557	0
5	Access Road	Cement M	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
5	Access Road	Dump Truc	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
5	Access Road	Dump Truc	Diesel	Urban Unrestricted Access	0.405183549	0.908986195	1376.830853	0.009422	0.01713001	0.01661672	0.067296893	0.0712601	0.0034639	23.252067	0.1444014	282.06616	0.0019302	0.0001392	0.000135	0.5776567	0
5	Access Road	Passenger	Gasoline	Urban Unrestricted Access	2.073621302	0.083591748	343.120272	0.004813	0.00432059	0.00397845	0.050516143	0.0045315	0.0016675	25.336607	1.3975153	268.48972	0.0037662	0.0328478	0.0302466	5.2186633	0.706242

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scen	Project	Fugitive Ty	Variable	Default Values	Units	User Value		
1	Building - 10000 sqft- 1 story	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	462.5	yd3			
1	Building - 10000 sqft- 1 story	Concrete M	PM10 = 0.037 x V	17.1	lbs			
1	Building - 10000 sqft- 1 story	Material M	sL = Road surface silt loading	0.1	g/m3			
1	Building - 10000 sqft- 1 story	Material M	Wt. = Mean vehicle weight	32	tons			
1	Building - 10000 sqft- 1 story	Material M	VMT = Vehicle miles traveled	2580	miles			
1	Building - 10000 sqft- 1 story	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	23.9	lbs			
1	Building - 10000 sqft- 1 story	Material M	s = Surface material silt content	0.043	fraction			
1	Building - 10000 sqft- 1 story	Material M	Wt. = Mean vehicle weight	32	tons			
1	Building - 10000 sqft- 1 story	Material M	VMT = Vehicle miles traveled	2580	miles			
1	Building - 10000 sqft- 1 story	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	70.7	lbs			
2	Building - 10000 sqft- 1 story	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	462.5	yd3			
2	Building - 10000 sqft- 1 story	Concrete M	PM10 = 0.037 x V	17.1	lbs			
2	Building - 10000 sqft- 1 story	Material M	sL = Road surface silt loading	0.1	g/m3			
2	Building - 10000 sqft- 1 story	Material M	Wt. = Mean vehicle weight	32	tons			
2	Building - 10000 sqft- 1 story	Material M	VMT = Vehicle miles traveled	2580	miles			
2	Building - 10000 sqft- 1 story	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	23.9	lbs			
2	Building - 10000 sqft- 1 story	Material M	s = Surface material silt content	0.043	fraction			
2	Building - 10000 sqft- 1 story	Material M	Wt. = Mean vehicle weight	32	tons			
2	Building - 10000 sqft- 1 story	Material M	VMT = Vehicle miles traveled	2580	miles			
2	Building - 10000 sqft- 1 story	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	70.7	lbs			
3	Parking Structure - 240000 s	Asphalt Dr	A = Area of land affected = L x W x 0.0929	22296	m2		5.51	0.29203
3	Parking Structure - 240000 s	Asphalt Dr	AR = Application rate of liquefied asphalt c	1.811	l/m2			
3	Parking Structure - 240000 s	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
3	Parking Structure - 240000 s	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
3	Parking Structure - 240000 s	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
3	Parking Structure - 240000 s	Asphalt Dr	VOC = A x AR x VD x EF x D	17806.7	lbs			
3	Parking Structure - 240000 s	Material M	sL = Road surface silt loading	0.1	g/m3			
3	Parking Structure - 240000 s	Material M	Wt. = Mean vehicle weight	32	tons			
3	Parking Structure - 240000 s	Material M	VMT = Vehicle miles traveled	6450	miles			
3	Parking Structure - 240000 s	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	59.9	lbs			
3	Parking Structure - 240000 s	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	11100	yd3			
3	Parking Structure - 240000 s	Concrete M	PM10 = 0.037 x V	410.7	lbs			
3	Parking Structure - 240000 s	Material M	s = Surface material silt content	0.043	fraction			
3	Parking Structure - 240000 s	Material M	Wt. = Mean vehicle weight	32	tons			
3	Parking Structure - 240000 s	Material M	VMT = Vehicle miles traveled	6550.5	miles			
3	Parking Structure - 240000 s	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	179.4	lbs			
4	Building - 100000 sqft- 10 st	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	4625	yd3			
4	Building - 100000 sqft- 10 st	Concrete M	PM10 = 0.037 x V	171.1	lbs			
4	Building - 100000 sqft- 10 st	Material M	sL = Road surface silt loading	0.1	g/m3			
4	Building - 100000 sqft- 10 st	Material M	Wt. = Mean vehicle weight	32	tons			
4	Building - 100000 sqft- 10 st	Material M	VMT = Vehicle miles traveled	3870	miles			
4	Building - 100000 sqft- 10 st	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	35.9	lbs			
4	Building - 100000 sqft- 10 st	Material M	s = Surface material silt content	0.043	fraction			
4	Building - 100000 sqft- 10 st	Material M	Wt. = Mean vehicle weight	32	tons			
4	Building - 100000 sqft- 10 st	Material M	VMT = Vehicle miles traveled	3970	miles			
4	Building - 100000 sqft- 10 st	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	108.7	lbs			
5	Access Road	Asphalt Dr	A = Area of land affected = L x W x 0.0929	4143.3	m2			
5	Access Road	Asphalt Dr	AR = Application rate of liquefied asphalt c	1.811	l/m2			
5	Access Road	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
5	Access Road	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
5	Access Road	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
5	Access Road	Asphalt Dr	VOC = A x AR x VD x EF x D	3309.1	lbs			
5	Access Road	Asphalt St	T = Mass of asphalt loaded = L x W x 0.166	539	tons			
5	Access Road	Asphalt St	PM10 = (0.027 + 0.00042) x T	14.8	lbs			
5	Access Road	Asphalt St	CO = (0.4 + 0.0004) x T	215.8	lbs			
5	Access Road	Asphalt St	NOx = (0.025) x T	13.5	lbs			
5	Access Road	Asphalt St	SOx = (0.0046) x T	2.48	lbs			
5	Access Road	Asphalt St	VOC = (0.0082 + 0.0042) x T	6.684	lbs			
5	Access Road	Material M	s = Surface material silt content	0.043	fraction			
5	Access Road	Material M	Wt. = Mean vehicle weight	32	tons			
5	Access Road	Material M	VMT = Vehicle miles traveled	5394.7	miles			
5	Access Road	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	147.7	lbs			
5	Access Road	Material M	sL = Road surface silt loading	0.1	g/m3			
5	Access Road	Material M	Wt. = Mean vehicle weight	32	tons			
5	Access Road	Material M	VMT = Vehicle miles traveled	5160	miles			
5	Access Road	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	47.9	lbs			
5	Access Road	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	2062.8	yd3			
5	Access Road	Concrete M	PM10 = 0.037 x V	76.3	lbs			
5	Access Road	Unstabiliz	A = Area affected = L x W / 43560.0	1.024	acres			
5	Access Road	Unstabiliz	TPConv = TSP/PM10 conversion	0.5	fraction			
5	Access Road	Unstabiliz	CE = Control efficiency	0.63	fraction			
5	Access Road	Unstabiliz	t = year (e.g. 0.65 year)	1	years			
5	Access Road	Unstabiliz	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2000	0	lbs			
5	Access Road	Soil Handl	u = Wind speed	5	mph			
5	Access Road	Soil Handl	m = Moisture content	0.25	fraction			
5	Access Road	Soil Handl	T = Mass of aggregate storage pile = L x W x	1226.5	tons			
5	Access Road	Soil Handl	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] / [(m/	25.2	lbs			

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ASSUMPTIONS

Emission factors were developed from the following models:

- On-Road Vehicles: MOVES 2010b, revised January 2013
- Non-Road Equipment: NONROAD2008a, July 2009

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:
- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

Asphalt Deliveries/Ten Wheelers
Bulldozer
Concrete Ready Mix Trucks
Concrete Ready Trucks Mix for Cores
Concrete Truck
Crack Filler (Trailer Mounted)
Delivery of Tanks (3)
Distributing Tanker
Dozer
Dump Truck
Dump Truck (12 cy)
Excavator
Excavator for L/G Services/Tanks
Flat Bed or Dump Trucks
Flatbed Truck
Grader
Grout Wheel Truck
Hoist Equipment with 40 Ton Rig
Hydraiic Hammer
Hydroseeder
Line Painting Truck and Sprayer
Material Deliveries
Off-Road Truck
Pickup Truck
Scraper
Seed Truck Spreader
Small Dozer
Survey Crew Trucks
Ten Wheelers
Ten Wheelers -Material Delivery
Tool Truck
Tractor Trailer- Equipment Delivery
Tractor Trailer- Material Delivery
Tractor Trailer- Steel Deliveries
Tractor Trailer- Stone Delivery
Tractor Trailer- Topsoil & Seed
Tractor Trailer- Truck Delivery
Tractor Trailer with Boom Hoist- Curbs Del & Place
Tractor Trailer with Boom Hoist- Delivery
Tractor Trailers- Rebar Deliveries
Tractor Trailers Temp Fac.
Truck for Topsoil & Seed Del&Spread
Water Truck
Excavator with Bucket
Excavator with Hoe Ram

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Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/17/2026 9:49:42 AM

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STUDY

Study Name

DFW Terminal SEA

Study Description

Construction 2029

2029 DFW CTA Supplemental EA Construction Emissions

Non-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO_2, CH_4, and N_2O) Emission: Metric Ton

											TEXN2.6 NONROAD Emission Factors (g/hp-hr)						TEXN2.6 Nonroad Emissions (Tons Per Year)					
Scenario ID	Year	Project	Construction Activity	Equipment	TEXN2.6 Equipment	TEXN2.6 Lookup	Fuel	HP Average	Load Factor	Hours of Activity	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2029	Building - 10000 sqft - 1 story	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	0.50430	1.02416	0.00200	0.07439	0.07216	0.07021	0.00374	0.00759	0.00001	0.00055	0.00053	0.00052
1	2029	Building - 10000 sqft - 1 story	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00182	0.00502	0.00003	0.00035	0.00034	0.00033
1	2029	Building - 10000 sqft - 1 story	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	320	0.60543	1.25717	0.00177	0.09862	0.09566	0.05744	0.01260	0.02616	0.00004	0.00205	0.00199	0.00120
1	2029	Building - 10000 sqft - 1 story	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00242	0.00670	0.00004	0.00047	0.00046	0.00044
1	2029	Building - 10000 sqft - 1 story	Concrete Foundations	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00048	0.00134	0.00001	0.00009	0.00009	0.00009
1	2029	Building - 10000 sqft - 1 story	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00030	0.00084	0.00000	0.00006	0.00006	0.00006
1	2029	Building - 10000 sqft - 1 story	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00012	0.00033	0.00000	0.00002	0.00002	0.00002
1	2029	Building - 10000 sqft - 1 story	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	240	0.60543	1.25717	0.00177	0.09862	0.09566	0.05744	0.00945	0.01962	0.00003	0.00154	0.00149	0.00090
1	2029	Building - 10000 sqft - 1 story	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.27768	2.18898	0.00171	0.03003	0.02912	0.05644	0.00116	0.00912	0.00001	0.00013	0.00012	0.00024
1	2029	Building - 10000 sqft - 1 story	Exterior Wall Framing	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00182	0.00502	0.00003	0.00035	0.00034	0.00033
1	2029	Building - 10000 sqft - 1 story	Exterior Wall Framing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00073	0.00201	0.00001	0.00014	0.00014	0.00013
1	2029	Building - 10000 sqft - 1 story	Interior Build-Out/ Finishes	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	960	0.60543	1.25717	0.00177	0.09862	0.09566	0.05744	0.03780	0.07849	0.00011	0.00616	0.00597	0.00359
1	2029	Building - 10000 sqft - 1 story	Interior Build-Out/ Finishes	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.27768	2.18898	0.00171	0.03003	0.02912	0.05644	0.00463	0.03648	0.00003	0.00050	0.00049	0.00094
1	2029	Building - 10000 sqft - 1 story	Interior Build-Out/ Finishes	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00364	0.01005	0.00006	0.00071	0.00069	0.00066
1	2029	Building - 10000 sqft - 1 story	Interior Build-Out/ Finishes	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00364	0.01005	0.00006	0.00071	0.00069	0.00066
1	2029	Building - 10000 sqft - 1 story	Roofing	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.26406	0.94319	0.00179	0.04405	0.04273	0.02196	0.00206	0.00736	0.00001	0.00034	0.00033	0.00017
1	2029	Building - 10000 sqft - 1 story	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.27768	2.18898	0.00171	0.03003	0.02912	0.05644	0.00058	0.00456	0.00000	0.00006	0.00006	0.00012
1	2029	Building - 10000 sqft - 1 story	Roofing	Material Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	8	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00024	0.00067	0.00000	0.00005	0.00005	0.00004
1	2029	Building - 10000 sqft - 1 story	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	12	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00036	0.00100	0.00001	0.00007	0.00007	0.00007
1	2029	Building - 10000 sqft - 1 story	Security & Safety Systems	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.26406	0.94319	0.00179	0.04405	0.04273	0.02196	0.00550	0.01963	0.00004	0.00092	0.00089	0.00046
1	2029	Building - 10000 sqft - 1 story	Security & Safety Systems	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00242	0.00670	0.00004	0.00047	0.00046	0.00044
1	2029	Building - 10000 sqft - 1 story	Structural Steel Erection	40 Ton Crane	Cranes	Cranes300	Diesel	300	0.43	240	0.08920	0.38183	0.00146	0.01954	0.01896	0.02655	0.00304	0.01303	0.00005	0.00067	0.00065	0.00091
1	2029	Building - 10000 sqft - 1 story	Structural Steel Erection	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	120	0.60543	1.25717	0.00177	0.09862	0.09566	0.05744	0.00473	0.00981	0.00001	0.00077	0.00075	0.00045
1	2029	Building - 10000 sqft - 1 story	Structural Steel Erection	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00182	0.00502	0.00003	0.00035	0.00034	0.00033
1	2029	Building - 10000 sqft - 1 story	Structural Steel Erection	Tractor Trailer- Steel Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.07766	0.21452	0.00122	0.01510	0.01465	0.01409	0.00048	0.00134	0.00001	0.00009	0.00009	0.00009

1	2029	Demolition - Concrete	Concrete Demolition	Excavator with Bucket	Excavators	Excavators175	Diesel	175	0.59	13.33333333	0.08282	0.25600
1	2029	Demolition - Concrete	Concrete Demolition	Excavator with Hoe Ram	Excavators	Excavators175	Diesel	175	0.59	13.33333333	0.08282	0.25600
1	2029	Demolition - Concrete	Concrete Demolition	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	26.66666667	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	480	0.50430	1.02416
2	2029	Building - 100000 sqft - 10 stories	Concrete Foundations	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	180	1.75442	2.99018
2	2029	Building - 100000 sqft - 10 stories	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	360	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Concrete Foundations	Excavator	Excavators	Excavators175	Diesel	175	0.59	160	0.08282	0.25600
2	2029	Building - 100000 sqft - 10 stories	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	480	0.60543	1.25717
2	2029	Building - 100000 sqft - 10 stories	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Concrete Foundations	Tractor Trailer - Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	240	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	840	0.60543	1.25717
2	2029	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Generator	Other Construction Equipment	Other Construction Equipment40	Diesel	40	0.43	80	0.25768	2.16660
2	2029	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Grout Mixer	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	420	0.45890	1.01053
2	2029	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Grout Wheel Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	160	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	1680	0.27768	2.18898
2	2029	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	420	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Tractor Trailer - Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	840	0.07766	0.21452
2	2029	Building - 100000 sqft - 10 stories	Exterior Wall Framing	Truck Tower (Mantiwoc type)	Off-highway Trucks	Off-highway Trucks300	Diesel	300	0.43	80	0.02952	0.12610

On-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Equipment	Equipment Category	MOVES5 Onroad Lookup	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Distance for fugitive PM	Number of Vehicles	Number of Employees Or $M*11	Number of Project Days
1	2029	Building - 10000 sqft - 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	236
1	2029	Building - 10000 sqft - 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	236
1	2029	Building - 10000 sqft - 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	2.959	2.959	236
1	2029	Building - 10000 sqft - 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	236
2	2029	Building - 10000 sqft - 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
2	2029	Building - 10000 sqft - 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
2	2029	Building - 10000 sqft - 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	174.68	174.68	258
2	2029	Building - 10000 sqft - 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
3	2029	Parking Structure - 240000 sqft - G+2 stori	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	258
3	2029	Parking Structure - 240000 sqft - G+2 stori	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258
3	2029	Parking Structure - 240000 sqft - G+2 stori	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	836.077	836.077	258
3	2029	Parking Structure - 240000 sqft - G+2 stori	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
4	2029	Building - 100000 sqft - 10 stories	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258
4	2029	Building - 100000 sqft - 10 stories	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
4	2029	Building - 100000 sqft - 10 stories	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	685.234	685.234	258
4	2029	Building - 100000 sqft - 10 stories	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
5	2029	Access Road	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
5	2029	Access Road	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
5	2029	Access Road	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258
3	2029	Building - 10000 sqft - 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1		
4	2029	Taxiways	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1		
4	2029	Taxiways	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3		
4	2029	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1		
4	2029	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2		
4	2029	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	225.786		
5	2029	Taxiways	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1		
5	2029	Taxiways	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3		
5	2029	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1		
5	2029	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2		
5	2029	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	73		
1	2029	Demolition - Concrete	Dump Truck	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1		
1	2029	Demolition - Concrete	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	141.229		
2	2029	Building - 100000 sqft - 10 stories	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2		
2	2029	Building - 100000 sqft - 10 stories	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2		
2	2029	Building - 100000 sqft - 10 stories	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	329.549		
2	2029	Building - 100000 sqft - 10 stories	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1		

Fugitive Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive Source Type	Number of Months	CO	NOx	SO_2	PM_{10}	VOC
1	2029	Building - 10000 sqft - 1 story	Concrete Mixing/Batching	11	0.00000	0.00000	0.00000	0.00855	0.00000
1	2029	Building - 10000 sqft - 1 story	Material Movement (Paved Roads)	11	0.00000	0.00000	0.00000	0.01095	0.00000
1	2029	Building - 10000 sqft - 1 story	Material Movement (Unpaved Roads)	11	0.00000	0.00000	0.00000	0.03230	0.00000
2	2029	Building - 10000 sqft - 1 story	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.00855	0.00000
2	2029	Building - 10000 sqft - 1 story	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.01195	0.00000
2	2029	Building - 10000 sqft - 1 story	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.03535	0.00000
3	2029	Parking Structure - 240000 sqft - G+2 stori	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.29203
3	2029	Parking Structure - 240000 sqft - G+2 stori	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.20535	0.00000
3	2029	Parking Structure - 240000 sqft - G+2 stori	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.02995	0.00000
3	2029	Parking Structure - 240000 sqft - G+2 stori	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.08970	0.00000
4	2029	Building - 100000 sqft - 10 stories	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.08555	0.00000
4	2029	Building - 100000 sqft - 10 stories	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.01795	0.00000
4	2029	Building - 100000 sqft - 10 stories	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.05435	0.00000
5	2029	Access Road	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.05406
5	2029	Access Road	Asphalt Storage and Batching	12	0.10790	0.00675	0.00124	0.00740	0.00334
5	2029	Access Road	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.03815	0.00000
5	2029	Access Road	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.02395	0.00000
5	2029	Access Road	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.07385	0.00000
5	2029	Access Road	Soil Handling	12	0.00000	0.00000	0.00000	0.01260	0.00000
5	2029	Access Road	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	0.00000
1	2029	Building - 100000 sqft - 10 stories	Concrete Mixing/Batching	9	0.00000	0.00000	0.00000	0.08555	0.00000
1	2029	Building - 100000 sqft - 10 stories	Material Movement (Paved Roads)	9	0.00000	0.00000	0.00000	0.01345	0.00000
4	2029	Taxiways	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	
5	2029	Taxiways	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	
5	2029	Taxiways	Asphalt Storage and Batching	12	0.53350	0.03330	0.00615	0.03655	
5	2029	Taxiways	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.18865	
5	2029	Taxiways	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.04190	
5	2029	Taxiways	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.13420	
5	2029	Taxiways	Soil Handling	12	0.00000	0.00000	0.00000	0.06240	
5	2029	Taxiways	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	
1	2029	Demolition - Concrete	Material Movement (Paved Roads)	7	0.00000	0.00000	0.00000	0.00348	
1	2029	Demolition - Concrete	Material Movement (Unpaved Roads)	7	0.00000	0.00000	0.00000	0.01050	
1	2029	Demolition - Concrete	Soil Handling	7	0.00000	0.00000	0.00000	0.00283	
1	2029	Demolition - Concrete	Unstabilized Land and Wind Erosion	7	0.00000	0.00000	0.00000	0.00000	
2	2029	Building - 100000 sqft - 10 stories	Concrete Mixing/Batching	7	0.00000	0.00000	0.00000	0.08555	
2	2029	Building - 100000 sqft - 10 stories	Material Movement (Paved Roads)	7	0.00000	0.00000	0.00000	0.01390	
2	2029	Building - 100000 sqft - 10 stories	Material Movement (Unpaved Roads)	7	0.00000	0.00000	0.00000	0.04245	
				TOTAL (Tons Per Year)	*1.20635*	*0.07535*	*0.01389*	*2.18601*	

Total Construction Emissions By Source

Emission Source	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
NonRoad	2.884	7.840	0.028	0.509	0.494	0.447
OnRoad	19.943	0.765	0.019	0.263	0.079	0.342
Fugitive	1.206	0.075	0.014	2.186	--	0.935
TOTAL (Tons Per Year)	24.03	8.68	0.06	2.96	0.57	1.72

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INPUT DATA AND SPECIFICATIONS

State/County
Texas
Dallas County

Scenarios

Scei	Year	Number of	Season	Average Daily Temp (degF)	Max Daily Temp Change (degF)	Min Daily Temp Change (degF)
1	2029	11	Summer	T <= 10	20 <= Change in T	20 <= Change in T
2	2029	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
3	2029	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
4	2029	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
5	2029	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
6						

Project Final Selections

Scei	Project	Constructi	Equipment	Fuel Type
1	Building - 10000 sqft - 1 story	Concrete F	Backhoe	Diesel
1	Building - 10000 sqft - 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel
1	Building - 10000 sqft - 1 story	Concrete F	Fork Truck	Diesel
1	Building - 10000 sqft - 1 story	Concrete F	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Concrete F	Tractor Trailer - Material Delivery	Diesel
1	Building - 10000 sqft - 1 story	Constructi	Survey Crew Trucks	Diesel
1	Building - 10000 sqft - 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel
1	Building - 10000 sqft - 1 story	Exterior W	Fork Truck	Diesel
1	Building - 10000 sqft - 1 story	Exterior W	Man Lift	Diesel
1	Building - 10000 sqft - 1 story	Exterior W	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Exterior W	Tractor Trailer - Material Delivery	Diesel
1	Building - 10000 sqft - 1 story	Interior Bu	Fork Truck	Diesel
1	Building - 10000 sqft - 1 story	Interior Bu	Man Lift	Diesel
1	Building - 10000 sqft - 1 story	Interior Bu	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Interior Bu	Tractor Trailer - Material Delivery	Diesel
1	Building - 10000 sqft - 1 story	Roofing	High Lift	Diesel
1	Building - 10000 sqft - 1 story	Roofing	Man Lift (Fascia Construction)	Diesel
1	Building - 10000 sqft - 1 story	Roofing	Material Deliveries	Diesel
1	Building - 10000 sqft - 1 story	Roofing	Tractor Trailer - Material Delivery	Diesel
1	Building - 10000 sqft - 1 story	Security &	High Lift	Diesel
1	Building - 10000 sqft - 1 story	Security &	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Structural	40 Ton Crane	Diesel
1	Building - 10000 sqft - 1 story	Structural	Fork Truck	Diesel
1	Building - 10000 sqft - 1 story	Structural	Tool Truck	Diesel
1	Building - 10000 sqft - 1 story	Structural	Tractor Trailer - Steel Deliveries	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Backhoe	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Fork Truck	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Tool Truck	Diesel
2	Building - 10000 sqft - 1 story	Concrete F	Tractor Trailer - Material Delivery	Diesel
2	Building - 10000 sqft - 1 story	Constructi	Survey Crew Trucks	Diesel
2	Building - 10000 sqft - 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel
2	Building - 10000 sqft - 1 story	Exterior W	Fork Truck	Diesel
2	Building - 10000 sqft - 1 story	Exterior W	Man Lift	Diesel
2	Building - 10000 sqft - 1 story	Exterior W	Tool Truck	Diesel

4	Building - 100000 sqft- 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	
4	Building - 100000 sqft- 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	
4	Building - 100000 sqft- 10 st	Interior Bu	Fork Truck	Diesel	
4	Building - 100000 sqft- 10 st	Interior Bu	Man Lift	Diesel	
4	Building - 100000 sqft- 10 st	Interior Bu	Tool Truck	Diesel	
4	Building - 100000 sqft- 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	High Lift	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	Man Lift	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	Material Deliveries	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	
4	Building - 100000 sqft- 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	
4	Building - 100000 sqft- 10 st	Security &	High Lift	Diesel	
4	Building - 100000 sqft- 10 st	Security &	Tool Truck	Diesel	
4	Building - 100000 sqft- 10 st	Structural	90 Ton Crane	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Concrete Pump	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Concrete Truck	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Fork Truck	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Tool Truck	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Trowel Machine	Diesel	
4	Building - 100000 sqft- 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	
5	Access Road	Asphalt Pl	Asphalt Paver	Diesel	
5	Access Road	Asphalt Pl	Dump Truck	Diesel	
5	Access Road	Asphalt Pl	Other General Equipment	Diesel	
5	Access Road	Asphalt Pl	Pickup Truck	Diesel	
5	Access Road	Asphalt Pl	Roller	Diesel	
5	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	
5	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	
5	Access Road	Clearing a	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
5	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	
5	Access Road	Clearing a	Pickup Truck	Diesel	
5	Access Road	Concrete F	Air Compressor	Diesel	
5	Access Road	Concrete F	Concrete Saws	Diesel	
5	Access Road	Concrete F	Concrete Truck	Diesel	
5	Access Road	Concrete F	Other General Equipment	Diesel	
5	Access Road	Concrete F	Pickup Truck	Diesel	
5	Access Road	Concrete F	Rubber Tired Loader	Diesel	
5	Access Road	Concrete F	Slip Form Paver	Diesel	
5	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	
5	Access Road	Curbing	Concrete Truck	Diesel	
5	Access Road	Curbing	Curb/Gutter Paver	Diesel	
5	Access Road	Curbing	Other General Equipment	Diesel	
5	Access Road	Curbing	Pickup Truck	Diesel	
5	Access Road	Drainage -	Dozer	Diesel	
5	Access Road	Drainage -	Dump Truck	Diesel	
5	Access Road	Drainage -	Excavator	Diesel	
5	Access Road	Drainage -	Loader	Diesel	
5	Access Road	Drainage -	Other General Equipment	Diesel	
5	Access Road	Drainage -	Pickup Truck	Diesel	
5	Access Road	Drainage -	Roller	Diesel	
5	Access Road	Drainage -	Dump Truck	Diesel	
5	Access Road	Drainage -	Loader	Diesel	
5	Access Road	Drainage -	Other General Equipment	Diesel	
5	Access Road	Drainage -	Pickup Truck	Diesel	
5	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Dust Contr	Water Truck	Diesel	
5	Access Road	Excavation	Dozer	Diesel	
5	Access Road	Excavation	Dump Truck (12 cy)	Diesel	
5	Access Road	Excavation	Pickup Truck	Diesel	
5	Access Road	Excavation	Roller	Diesel	
5	Access Road	Excavation	Dozer	Diesel	
5	Access Road	Excavation	Dump Truck (12 cy)	Diesel	
5	Access Road	Excavation	Excavator	Diesel	
5	Access Road	Excavation	Pickup Truck	Diesel	
5	Access Road	Excavation	Roller	Diesel	
5	Access Road	Excavation	Scraper	Diesel	
5	Access Road	Excavation	Dozer	Diesel	
5	Access Road	Fencing	Concrete Truck	Diesel	
5	Access Road	Fencing	Dump Truck	Diesel	
5	Access Road	Fencing	Other General Equipment	Diesel	
5	Access Road	Fencing	Pickup Truck	Diesel	
5	Access Road	Fencing	Skid Steer Loader	Diesel	
5	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Grading	Dozer	Diesel	
5	Access Road	Grading	Grader	Diesel	
5	Access Road	Grading	Roller	Diesel	
5	Access Road	Hydroseed	Hydroseeder	Diesel	
5	Access Road	Hydroseed	Off-Road Truck	Diesel	
5	Access Road	Markings	Flatbed Truck	Diesel	
5	Access Road	Markings	Other General Equipment	Diesel	
5	Access Road	Markings	Pickup Truck	Diesel	
5	Access Road	Sidewalks	Concrete Truck	Diesel	
5	Access Road	Sidewalks	Dump Truck	Diesel	
5	Access Road	Sidewalks	Pickup Truck	Diesel	
5	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Sidewalks	Vibratory Compactor	Diesel	
5	Access Road	Soil Erosio	Other General Equipment	Diesel	
5	Access Road	Soil Erosio	Pickup Truck	Diesel	
5	Access Road	Soil Erosio	Pumps	Diesel	
5	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Street Ligh	Dump Truck	Diesel	
5	Access Road	Street Ligh	Loader	Diesel	
5	Access Road	Street Ligh	Other General Equipment	Diesel	
5	Access Road	Street Ligh	Pickup Truck	Diesel	
5	Access Road	Street Ligh	Skid Steer Loader	Diesel	
5	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	
5	Access Road	Subbase P	Dozer	Diesel	
5	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	
5	Access Road	Subbase P	Pickup Truck	Diesel	
5	Access Road	Subbase P	Roller	Diesel	
5	Access Road	Topsoil Pla	Dozer	Diesel	
5	Access Road	Topsoil Pla	Dump Truck	Diesel	
5	Access Road	Topsoil Pla	Pickup Truck	Diesel	
5	Access Road	Tree Plant	Flatbed Truck	Diesel	
5	Access Road	Tree Plant	Other General Equipment	Diesel	
5	Access Road	Tree Plant	Pickup Truck	Diesel	
5	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	

Overall Size

Scen	Project	Project Siz	User Input	Unit
1	Building - 10000 sqft- 1 story	What is th	0.269	$ Million(s)
2	Building - 10000 sqft- 1 story	What is th	15.88	$ Million(s)
3	Parking Structure - 240000 s	What is th	76.007	$ Million(s)
4	Building - 100000 sqft- 10 st	What is th	62.294	$ Million(s)
5	Access Road	What is th	24.406	$ Million(s)
5	Access Road	What is th	1115	Feet
5	Access Road	What is th	40	Feet

Size Detail (Estimated based on engineering experience)

Scen	Project	Constructi	Default Activity Size	Unit	User Activity Size		
5	Access Road	Asphalt Pl	4950.6	Square Yards		1.02	0.05406
5	Access Road	Clearing a	1.3	Acres			
5	Access Road	Concrete F	2062.8	Cubic Yards			
5	Access Road	Curbing	2230	Linear Feet			
5	Access Road	Drainage -	1125	Linear Feet			
5	Access Road	Drainage -	2250	Linear Feet			
5	Access Road	Dust Contr	360	Days			
5	Access Road	Excavation	2062.8	Cubic Yards			
5	Access Road	Excavation	2062.8	Cubic Yards			
5	Access Road	Excavation	4950.6	Square Yards			
5	Access Road	Fencing	1115	Linear Feet			
5	Access Road	Grading	6243.8	Square Yards			
5	Access Road	Hydroseed	56250	Square Feet			
5	Access Road	Markings	44600	Square Feet			
5	Access Road	Sidewalks	6690	Square Feet			
5	Access Road	Soil Erosio	1.3	Acres			
5	Access Road	Street Ligh	11.2	Lights			
5	Access Road	Subbase P	4950.6	Square Yards			
5	Access Road	Subbase P	1650.2	Cubic Yards			
5	Access Road	Topsoil Pla	1040.6	Cubic Yards			
5	Access Road	Tree Plant	0	Trees			

Activity: Non-Road (Estimated based on engineering experience)

Scen	Project	Constructi	Equipment	Fuel Type	Activity Size	Activity Rate	Default Activity	Activity Unit	User Activity Data
1	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
1	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
1	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours	
1	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours	
1	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours	
1	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
1	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
1	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours	
1	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours	
1	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
1	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
2	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
2	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours	
2	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours	
2	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
2	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
2	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
2	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours	
2	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
2	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
2	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours	
2	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours	
2	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
2	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
2	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
2	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
2	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
2	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
3	Parking Structure - 240000 s	Asphalt Pa	Asphalt Paver	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
3	Parking Structure - 240000 s	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
3	Parking Structure - 240000 s	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	240000.00 SF	0.00025 Hours per 1.00 SF	60	hours	
3	Parking Structure - 240000 s	Concrete F	40 Ton Rough Terrain Crane	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
3	Parking Structure - 240000 s	Concrete F	Backhoe	Diesel	240000.00 SF	0.00167 Hours per 1.00 SF	400.8	hours	
3	Parking Structure - 240000 s	Concrete F	Caisson Drilling Rig	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
3	Parking Structure - 240000 s	Concrete F	Concrete Pump	Diesel	240000.00 SF	0.000375 Hours per 1.00 SF	90	hours	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	240000.00 SF	0.00125 Hours per 1.00 SF	300	hours	
3	Parking Structure - 240000 s	Concrete F	Excavator	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
3	Parking Structure - 240000 s	Concrete F	Fork Truck	Diesel	240000.00 SF	0.00167 Hours per 1.00 SF	400.8	hours	
3	Parking Structure - 240000 s	Concrete F	Front Loader	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
3	Parking Structure - 240000 s	Concrete F	Tool Truck	Diesel	240000.00 SF	0.00042 Hours per 1.00 SF	100.8	hours	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Material Delivery	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Stone Delivery	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
3	Parking Structure - 240000 s	Concrete F	Trencher for U/G Piping	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
3	Parking Structure - 240000 s	Concrete F	90 Ton Crane	Diesel	240000.00 SF	0.002 Hours per 1.00 SF	480	hours	
3	Parking Structure - 240000 s	Concrete F	Concrete Boom Pump	Diesel	240000.00 SF	0.0015 Hours per 1.00 SF	360	hours	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	240000.00 SF	0.0015 Hours per 1.00 SF	360	hours	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Steel Deliveries	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Concrete F	Trowel Machines (4) machines	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Constructi	Survey Crew Trucks	Diesel	240000.00 SF	0.00004 Hours per 1.00 SF	9.6	hours	
3	Parking Structure - 240000 s	Constructi	Tractor Trailers Temp Fac.	Diesel	240000.00 SF	0.00002 Hours per 1.00 SF	4.8	hours	
3	Parking Structure - 240000 s	Lights and	Forklift	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Lights and	High Lift	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Lights and	Tool Truck	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
3	Parking Structure - 240000 s	Lights and	Trencher	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
3	Parking Structure - 240000 s	Precast Co	40 Ton Rough Terrain	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
3	Parking Structure - 240000 s	Precast Co	Fork Truck	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
3	Parking Structure - 240000 s	Precast Co	Tractor Trailer- Material Delivery	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
3	Parking Structure - 240000 s	Security &	High Lift	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
3	Parking Structure - 240000 s	Security &	Tool Truck	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
3	Parking Structure - 240000 s	Site Prep/I	Front Loader	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
3	Parking Structure - 240000 s	Site Prep/I	Tractor Trailer with Boom Hoist- Curbs De	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
3	Parking Structure - 240000 s	Site Prep/I	Truck for Topsoil & Seed Del&Spread	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Backhoe	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Pump	Diesel	100000.00 SF	0.0018 Hours per 1.00 SF	180	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Ready Mix Trucks	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Excavator	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Fork Truck	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Tool Truck	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours	
4	Building - 100000 sqft- 10 st	Concrete F	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours	
4	Building - 100000 sqft- 10 st	Constructi	Survey Crew Trucks	Diesel	100000.00 SF	0.0001 Hours per 1.00 SF	10	hours	
4	Building - 100000 sqft- 10 st	Constructi	Tractor Trailers Temp Fac.	Diesel	100000.00 SF	0.00004 Hours per 1.00 SF	4	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Fork Truck	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Generator	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Mixer	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Wheel Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Man Lift	Diesel	100000.00 SF	0.0168 Hours per 1.00 SF	1680	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Tool Truck	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours	
4	Building - 100000 sqft- 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours	
4	Building - 100000 sqft- 10 st	Interior Bu	Fork Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
4	Building - 100000 sqft- 10 st	Interior Bu	Man Lift	Diesel	100000.00 SF	0.032 Hours per 1.00 SF	3200	hours	
4	Building - 100000 sqft- 10 st	Interior Bu	Tool Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
4	Building - 100000 sqft- 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
4	Building - 100000 sqft- 10 st	Roofing	High Lift	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
4	Building - 100000 sqft- 10 st	Roofing	Man Lift	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
4	Building - 100000 sqft- 10 st	Roofing	Material Deliveries	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
4	Building - 100000 sqft- 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
4	Building - 100000 sqft- 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours	
4	Building - 100000 sqft- 10 st	Security &	High Lift	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours	
4	Building - 100000 sqft- 10 st	Security &	Tool Truck	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours	
4	Building - 100000 sqft- 10 st	Structural	90 Ton Crane	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours	
4	Building - 100000 sqft- 10 st	Structural	Concrete Pump	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
4	Building - 100000 sqft- 10 st	Structural	Concrete Truck	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
4	Building - 100000 sqft- 10 st	Structural	Fork Truck	Diesel	100000.00 SF	0.0064 Hours per 1.00 SF	640	hours	
4	Building - 100000 sqft- 10 st	Structural	Tool Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
4	Building - 100000 sqft- 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours	
4	Building - 100000 sqft- 10 st	Structural	Trowel Machine	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
4	Building - 100000 sqft- 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0072 Hours per 1.00 SF	720	hours	
5	Access Road	Asphalt Pl	Asphalt Paver	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
5	Access Road	Asphalt Pl	Dump Truck	Diesel	4950.60 SY	8 Hours per 1777.00 SY	22.29	hours	
5	Access Road	Asphalt Pl	Other General Equipment	Diesel	4950.60 SY	16 Hours per 6400.00 SY	12.38	hours	
5	Access Road	Asphalt Pl	Pickup Truck	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
5	Access Road	Asphalt Pl	Roller	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
5	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
5	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	4950.60 SY	8 Hours per 5000.00 SY	7.92	hours	
5	Access Road	Clearing a	Chain Saw	Diesel	1.30 Acre	12 Hours per 1.00 Acre	15.6	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
5	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	1.30 Acre	12 Hours per 1.00 Acre	15.6	hours	
5	Access Road	Clearing a	Pickup Truck	Diesel	1.30 Acre	16 Hours per 1.00 Acre	20.8	hours	
5	Access Road	Concrete F	Air Compressor	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Concrete F	Concrete Saws	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Concrete F	Concrete Truck	Diesel	2062.80 CY	8 Hours per 240.00 CY	68.76	hours	
5	Access Road	Concrete F	Other General Equipment	Diesel	2062.80 CY	16 Hours per 1000.00 CY	33	hours	
5	Access Road	Concrete F	Pickup Truck	Diesel	2062.80 CY	24 Hours per 1000.00 CY	49.51	hours	
5	Access Road	Concrete F	Rubber Tired Loader	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Concrete F	Slip Form Paver	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Curbing	Concrete Truck	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
5	Access Road	Curbing	Curb/Gutter Paver	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
5	Access Road	Curbing	Other General Equipment	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
5	Access Road	Curbing	Pickup Truck	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
5	Access Road	Drainage -	Dozer	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Dump Truck	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Excavator	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Loader	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Other General Equipment	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Pickup Truck	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Roller	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
5	Access Road	Drainage -	Dump Truck	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Drainage -	Loader	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Drainage -	Other General Equipment	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Drainage -	Pickup Truck	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
5	Access Road	Dust Contr	Water Truck	Diesel	360.00 Day	8 Hours per 1.00 Day	2880	hours	
5	Access Road	Excavation	Dozer	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
5	Access Road	Excavation	Dump Truck (12 cy)	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
5	Access Road	Excavation	Pickup Truck	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
5	Access Road	Excavation	Roller	Diesel	2062.80 CY	8 Hours per 1300.00 CY	12.69	hours	
5	Access Road	Excavation	Dozer	Diesel	2062.80 CY	8 Hours per 800.00 CY	20.63	hours	
5	Access Road	Excavation	Dump Truck (12 cy)	Diesel	2062.80 CY	8 Hours per 300.00 CY	55.01	hours	
5	Access Road	Excavation	Excavator	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Excavation	Pickup Truck	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Excavation	Roller	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
5	Access Road	Excavation	Scraper	Diesel	2062.80 CY	8 Hours per 800.00 CY	20.63	hours	
5	Access Road	Excavation	Dozer	Diesel	4950.60 SY	8 Hours per 5100.00 SY	7.77	hours	
5	Access Road	Fencing	Concrete Truck	Diesel	1115.00 LF	2 Hours per 180.00 LF	12.39	hours	
5	Access Road	Fencing	Dump Truck	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Fencing	Other General Equipment	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Fencing	Pickup Truck	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Fencing	Skid Steer Loader	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
5	Access Road	Grading	Dozer	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
5	Access Road	Grading	Grader	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
5	Access Road	Grading	Roller	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
5	Access Road	Hydroseed	Hydroseeder	Diesel	56250.00 SF	8 Hours per 80000.00 SF	5.63	hours	
5	Access Road	Hydroseed	Off-Road Truck	Diesel	56250.00 SF	8 Hours per 80000.00 SF	5.63	hours	
5	Access Road	Markings	Flatbed Truck	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
5	Access Road	Markings	Other General Equipment	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
5	Access Road	Markings	Pickup Truck	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
5	Access Road	Sidewalks	Concrete Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Sidewalks	Dump Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Sidewalks	Pickup Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Sidewalks	Vibratory Compactor	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
5	Access Road	Soil Erosio	Other General Equipment	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
5	Access Road	Soil Erosio	Pickup Truck	Diesel	1.30 Acre	8 Hours per 1.00 Acre	10.4	hours	
5	Access Road	Soil Erosio	Pumps	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
5	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
5	Access Road	Street Ligh	Dump Truck	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Loader	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Other General Equipment	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Pickup Truck	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Skid Steer Loader	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
5	Access Road	Subbase P	Dozer	Diesel	4950.60 SY	8 Hours per 3800.00 SY	10.42	hours	
5	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	1650.20 CY	8 Hours per 180.00 CY	73.34	hours	
5	Access Road	Subbase P	Pickup Truck	Diesel	4950.60 SY	8 Hours per 3800.00 SY	10.42	hours	
5	Access Road	Subbase P	Roller	Diesel	1650.20 CY	8 Hours per 1300.00 CY	10.16	hours	
5	Access Road	Topsoil Pla	Dozer	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
5	Access Road	Topsoil Pla	Dump Truck	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
5	Access Road	Topsoil Pla	Pickup Truck	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
5	Access Road	Tree Plant	Flatbed Truck	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
5	Access Road	Tree Plant	Other General Equipment	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
5	Access Road	Tree Plant	Pickup Truck	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
5	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	

Activity: On-Road (Estimated based on engineering experience)

Scen	Project	Equipment	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Number of Employees Or $M*11 (Whic	Number of F	Project Length	Project Width	Project Area	Building Hei	Open Space	Number of T	Activity Size	Activity Rate	Default VMT	User VMT
1	Building - 10000 sqft- 1 story	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	236	--	--	10000	--	--	--	--	--	2313	
1	Building - 10000 sqft- 1 story	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	236	--	--	10000	--	--	--	--	--	1233	
1	Building - 10000 sqft- 1 story	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	2.959	236	--	--	--	--	--	--	--	--	20950	
1	Building - 10000 sqft- 1 story	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	236	--	--	10000	--	--	--	--	0.0016	160	
2	Building - 10000 sqft- 1 story	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	2313	
2	Building - 10000 sqft- 1 story	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	--	1233	
2	Building - 10000 sqft- 1 story	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	174.68	258	--	--	--	--	--	--	--	--	1352023	
2	Building - 10000 sqft- 1 story	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	10000	--	--	--	--	0.0016	160	
3	Parking Structure - 240000 s	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	--	55500	
3	Parking Structure - 240000 s	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	--	29600	
3	Parking Structure - 240000 s	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	836.077	258	--	--	--	--	--	--	--	--	6471236	
3	Parking Structure - 240000 s	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	240000	--	--	--	--	0.00083	1992	
4	Building - 100000 sqft- 10 st	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	--	23125	
4	Building - 100000 sqft- 10 st	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	--	12333	
4	Building - 100000 sqft- 10 st	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	685.234	258	--	--	--	--	--	--	--	--	5303711	
4	Building - 100000 sqft- 10 st	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	--	--	100000	--	--	--	--	0.0024	2400	
5	Access Road	Asphalt 18	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	1115	40	--	--	--	--	--	--	647	
5	Access Road	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	1115	40	--	--	--	--	--	--	10314	
5	Access Road	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	1115	40	--	--	--	--	--	--	917	
5	Access Road	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	1115	40	--	--	--	--	--	--	5501	
5	Access Road	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	268.466	258	--	--	--	--	--	--	--	--	2077927	

Emission Factor: Non-Road (from NONROAD)

Scen	Project	Constructi	Equipment	Fuel Type	Avg Rated HP	Load Factor	CO (g/hp-hr)	NOx (g/hp-h	CO2 (g/hp-hr)	SO2 (g/hp-hr)	PM10 (g/hp-hr)	PM2.5 (g/hp-	VOC Exhaust	VOC Evaporative (g/equipment-day)
1	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041
1	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0
1	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0
1	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0
1	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0
1	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0

1	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
1	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
1	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
1	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
1	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
1	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
1	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
1	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
1	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
1	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
1	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
2	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
2	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
2	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
2	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
2	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
2	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
2	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
2	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
2	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
2	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
2	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
2	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Asphalt Pa	Asphalt Paver	Diesel	175	0.59	0.147934639	0.303966	536.408446	0.00259358	0.012240665	0.0112614	0.1393365	0.0040728	
3	Parking Structure - 240000 s	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
3	Parking Structure - 240000 s	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Concrete F	40 Ton Rough Terrain Crane	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
3	Parking Structure - 240000 s	Concrete F	Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
3	Parking Structure - 240000 s	Concrete F	Caisson Drilling Rig	Diesel	175	0.43	0.376786986	1.314479	530.48429	0.00281769	0.083542912	0.0768595	0.184301	0.1366071	
3	Parking Structure - 240000 s	Concrete F	Concrete Pump	Diesel	11	0.43	4.447124498	4.332065	588.580106	0.00396769	0.352698686	0.3244828	0.590438	0.0011487	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Concrete F	Excavator	Diesel	175	0.59	0.141897946	0.281357	536.409031	0.00258869	0.010423978	0.0095901	0.1391301	0	
3	Parking Structure - 240000 s	Concrete F	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
3	Parking Structure - 240000 s	Concrete F	Front Loader	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
3	Parking Structure - 240000 s	Concrete F	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Stone Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Concrete F	Trencher for U/G Piping	Diesel	75	0.59	0.529216594	3.037249	595.716012	0.00293499	0.038486262	0.0354074	0.1455073	0.008677	
3	Parking Structure - 240000 s	Concrete F	90 Ton Crane	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
3	Parking Structure - 240000 s	Concrete F	Concrete Boom Pump	Diesel	11	0.43	4.447124498	4.332065	588.580106	0.00396769	0.352698686	0.3244828	0.590438	0.0011487	
3	Parking Structure - 240000 s	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Concrete F	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Concrete F	Trowel Machines (4) machines	Diesel	600	0.59	0.355596012	0.845387	536.378942	0.00272999	0.046709287	0.0429725	0.1490599	0.2984409	
3	Parking Structure - 240000 s	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Lights and	Forklift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
3	Parking Structure - 240000 s	Lights and	High Lift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
3	Parking Structure - 240000 s	Lights and	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Lights and	Trencher	Diesel	75	0.59	0.529216594	3.037249	595.716012	0.00293499	0.038486262	0.0354074	0.1455073	0.008677	
3	Parking Structure - 240000 s	Precast Cc	40 Ton Rough Terrain	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
3	Parking Structure - 240000 s	Precast Cc	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
3	Parking Structure - 240000 s	Precast Cc	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Security &	High Lift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
3	Parking Structure - 240000 s	Security &	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Site Prep/I	Front Loader	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
3	Parking Structure - 240000 s	Site Prep/I	Tractor Trailer with Boom Hoist- Curbs De	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
3	Parking Structure - 240000 s	Site Prep/I	Truck for Topsoil & Seed Del&Spread	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Concrete F	Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Pump	Diesel	11	0.43	4.447124498	4.332065	588.580106	0.00396769	0.352698686	0.3244828	0.590438	0.0011487	
4	Building - 100000 sqft- 10 st	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Concrete F	Excavator	Diesel	175	0.59	0.141897946	0.281357	536.409031	0.00258869	0.010423978	0.0095901	0.1391301	0	
4	Building - 100000 sqft- 10 st	Concrete F	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
4	Building - 100000 sqft- 10 st	Concrete F	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Exterior W	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
4	Building - 100000 sqft- 10 st	Exterior W	Generator	Diesel	40	0.43	0.395028059	3.259268	589.852068	0.00299655	0.067279244	0.0618969	0.1705596	0.0061796	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Mixer	Diesel	600	0.59	0.355596012	0.845387	536.378942	0.00272999	0.046709287	0.0429725	0.1490599	0.2984409	
4	Building - 100000 sqft- 10 st	Exterior W	Grout Wheel Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Exterior W	Man Lift	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
4	Building - 100000 sqft- 10 st	Exterior W	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Exterior W	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
4	Building - 100000 sqft- 10 st	Interior Bu	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
4	Building - 100000 sqft- 10 st	Interior Bu	Man Lift	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
4	Building - 100000 sqft- 10 st	Interior Bu	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Roofing	High Lift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
4	Building - 100000 sqft- 10 st	Roofing	Man Lift	Diesel	75	0.21	2.035773715	3.60739	694.889863	0.00377808	0.221206751	0.2035102	0.3660006	0.0650565	
4	Building - 100000 sqft- 10 st	Roofing	Material Deliveries	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Roofing	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
4	Building - 100000 sqft- 10 st	Security &	High Lift	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
4	Building - 100000 sqft- 10 st	Security &	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Structural	90 Ton Crane	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
4	Building - 100000 sqft- 10 st	Structural	Concrete Pump	Diesel	11	0.43	4.447124498	4.332065	588.580106	0.00396769	0.352698686	0.3244828	0.590438	0.0011487	
4	Building - 100000 sqft- 10 st	Structural	Concrete Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Structural	Fork Truck	Diesel	100	0.59	0.395092166	0.281446	595.734831	0.00287509	0.010439382	0.0096042	0.1392759	0	
4	Building - 100000 sqft- 10 st	Structural	Tool Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
4	Building - 100000 sqft- 10 st	Structural	Trowel Machine	Diesel	600	0.59	0.355596012	0.845387	536.378942	0.00272999	0.046709287	0.0429725	0.1490599	0.2984409	
4	Building - 100000 sqft- 10 st	Structural	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.083379421	0.327451	530.619823	0.00257032	0.011783827	0.0108411	0.1395395	0.0120984	
5	Access Road	Asphalt Pl	Asphalt Paver	Diesel	175	0.59	0.147934639	0.303966	536.408446	0.00259358	0.012240665	0.0112614	0.1393365	0.0040728	
5	Access Road	Asphalt Pl	Dump Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Asphalt Pl	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Asphalt Pl	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Asphalt Pl	Roller	Diesel	100	0.59	0.429720063	0.329924	595.733329	0.0028868	0.016581008	0.0152545	0.1397887	0.0053835	
5	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	75	0.21	2.160928773	3.597454	694.850081	0.00377662	0.258680176	0.2379858	0.3791274	0.1631332	
5	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355364893	4.461272	594.730478	0.00400921	0.354079348	0.325753	0.4708126	0	
5	Access Road	Clearing a	Chain Saw	Diesel	11	0.7	293.5350111	1.322993	685.996391	0.14019157	9.748189454	8.9683343	61.888356	25.002037	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
5	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	100	0.43	0.853617558	1.349526	589.75274	0.00311267	0.121780947	0.1120385	0.2033516	0.1433246	
5	Access Road	Clearing a	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Concrete F	Air Compressor	Diesel	100	0.43	0.354880908	0.448856	589.931356	0.00289145	0.026282526	0.0241799	0.1443953	0.0175465	
5	Access Road	Concrete F	Concrete Saws	Diesel	40	0.59	0.250992961	3.014504	595.735298	0.00287509	0.02209098	0.0203237	0.139124	0	
5	Access Road	Concrete F	Concrete Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Concrete F	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Concrete F	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Concrete F	Rubber Tired Loader	Diesel	175	0.59	0.155471655	0.320752	536.407316	0.00259924	0.014465656	0.0133084	0.1396957	0.008302	
5	Access Road	Concrete F	Slip Form Paver	Diesel	175	0.59	0.147934639	0.303966	536.408446	0.00259358	0.012240665	0.0112614	0.1393365	0.0040728	
5	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355364893	4.461272	594.730478	0.00400921	0.354079348	0.325753	0.4708126	0	
5	Access Road	Curbing	Concrete Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Curbing	Curb/Gutter Paver	Diesel	175	0.59	0.147934639	0.303966	536.408446	0.00259358	0.012240665	0.0112614	0.1393365	0.0040728	
5	Access Road	Curbing	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Curbing	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Drainage -	Dozer	Diesel	175	0.59	0.141589794	0.286689	536.409187	0.00258869	0.010355663	0.0095272	0.1390721	0	
5	Access Road	Drainage -	Dump Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Drainage -	Excavator	Diesel	175	0.59	0.141897946	0.281357	536.409031	0.00258869	0.010423978	0.0095901	0.1391301	0	
5	Access Road	Drainage -	Loader	Diesel	175	0.59	0.155471655	0.320752	536.407316	0.00259924	0.014465656	0.0133084	0.1396957	0.008302	
5	Access Road	Drainage -	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Drainage -	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Drainage -	Roller	Diesel	100	0.59	0.429720063	0.329924	595.733329	0.0028868	0.016581008	0.0152545	0.1397887	0.0053835	
5	Access Road	Drainage -	Dump Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Drainage -	Loader	Diesel	175	0.59	0.155471655	0.320752	536.407316	0.00259924	0.014465656	0.0133084	0.1396957	0.008302	
5	Access Road	Drainage -	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Drainage -	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
5	Access Road	Dust Conti	Water Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Excavatior	Dozer	Diesel	175	0.59	0.141589794	0.286689	536.409187	0.00258869	0.010355663	0.0095272	0.1390721	0	
5	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Excavatior	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Excavatior	Roller	Diesel	100	0.59	0.429720063	0.329924	595.733329	0.0028868	0.016581008	0.0152545	0.1397887	0.0053835	
5	Access Road	Excavatior	Dozer	Diesel	175	0.59	0.141589794	0.286689	536.409187	0.00258869	0.010355663	0.0095272	0.1390721	0	
5	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Excavatior	Excavator	Diesel	175	0.59	0.141897946	0.281357	536.409031	0.00258869	0.010423978	0.0095901	0.1391301	0	
5	Access Road	Excavatior	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Excavatior	Roller	Diesel	100	0.59	0.429720063	0.329924	595.733329	0.0028868	0.016581008	0.0152545	0.1397887	0.0053835	
5	Access Road	Excavatior	Scraper	Diesel	600	0.59	0.178566453	0.391564	536.405781	0.00261743	0.017318032	0.0159326	0.1401952	0.0752984	
5	Access Road	Excavatior	Dozer	Diesel	175	0.59	0.141589794	0.286689	536.409187	0.00258869	0.010355663	0.0095272	0.1390721	0	
5	Access Road	Fencing	Concrete Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Fencing	Dump Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Fencing	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Fencing	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Fencing	Skid Steer Loader	Diesel	75	0.21	2.160928773	3.597454	694.850081	0.00377662	0.258680176	0.2379858	0.3791274	0.1631332	
5	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
5	Access Road	Grading	Dozer	Diesel	175	0.59	0.141589794	0.286689	536.409187	0.00258869	0.010355663	0.0095272	0.1390721	0	
5	Access Road	Grading	Grader	Diesel	300	0.59	0.119884606	0.285123	536.409063	0.0025869	0.010376063	0.009546	0.1390894	0	
5	Access Road	Grading	Roller	Diesel	100	0.59	0.429720063	0.329924	595.733329	0.0028868	0.016581008	0.0152545	0.1397887	0.0053835	
5	Access Road	Hydroseec	Hydroseeder	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Hydroseec	Off-Road Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Markings	Flatbed Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Markings	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Markings	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Sidewalks	Concrete Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Sidewalks	Dump Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Sidewalks	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
5	Access Road	Sidewalks	Vibratory Compactor	Diesel	6	0.43	4.460140739	4.320235	588.587008	0.00396773	0.350872711	0.3228029	0.5881592	0.0001987	
5	Access Road	Soil Erosio	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Soil Erosio	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Soil Erosio	Pumps	Diesel	11	0.43	4.447124498	4.332065	588.580106	0.00396769	0.352698686	0.3244828	0.590438	0.0011487	
5	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
5	Access Road	Street Ligh	Dump Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Street Ligh	Loader	Diesel	175	0.59	0.155471655	0.320752	536.407316	0.00259924	0.014465656	0.0133084	0.1396957	0.008302	
5	Access Road	Street Ligh	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Street Ligh	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Street Ligh	Skid Steer Loader	Diesel	75	0.21	2.160928773	3.597454	694.850081	0.00377662	0.258680176	0.2379858	0.3791274	0.1631332	
5	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	
5	Access Road	Subbase P	Dozer	Diesel	175	0.59	0.141589794	0.286689	536.409187	0.00258869	0.010355663	0.0095272	0.1390721	0	
5	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Subbase P	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Subbase P	Roller	Diesel	100	0.59	0.429720063	0.329924	595.733329	0.0028868	0.016581008	0.0152545	0.1397887	0.0053835	
5	Access Road	Topsoil Pl	Dozer	Diesel	175	0.59	0.141589794	0.286689	536.409187	0.00258869	0.010355663	0.0095272	0.1390721	0	
5	Access Road	Topsoil Pl	Dump Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Topsoil Pl	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Tree Plant	Flatbed Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Tree Plant	Other General Equipment	Diesel	175	0.43	0.123414668	0.378576	530.614656	0.00259007	0.017767741	0.0163463	0.1412512	0.0169703	
5	Access Road	Tree Plant	Pickup Truck	Diesel	600	0.59	0.141904987	0.281358	536.409017	0.00258869	0.010425541	0.0095915	0.1391314	0	
5	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	100	0.21	1.724288472	1.118955	695.221977	0.00357706	0.185611436	0.1707625	0.2563446	0.1868041	

Emission Factors: On-Road (from MOVES)

Scen	Project Type	Equipmen	Fuel Type	Roadway Type	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi)	PM2.5(g/mi)	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/veh	RV NOx(g/ve	RV CO2(g/ve	RV SO2(g/ve	RV PM10(g/v	RV PM2.5(g/	RV VOC(g/ve	RP VOC(g/veh-day)
1	Building - 10000 sqft- 1 story	Cement M	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
1	Building - 10000 sqft- 1 story	Dump Truc	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
1	Building - 10000 sqft- 1 story	Passenger	Gasoline	Urban Unrestricted Access	2.031107559	0.084118902	348.0772678	0.004883	0.00420782	0.00387462	0.04853165	0.0048076	0.0016645	24.958837	1.4127698	274.16505	0.0038458	0.0317855	0.0292685	4.9515693	0.736971
1	Building - 10000 sqft- 1 story	Tractor Tra	Diesel	Urban Unrestricted Access	0.549060841	1.78315709	2511.507091	0.017257	0.05798167	0.05624415	0.111547046	0.0722019	0.0034639	22.518663	0.3936248	296.35599	0.0020852	0.0119183	0.0115612	6.6282822	0
2	Building - 10000 sqft- 1 story	Cement M	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
2	Building - 10000 sqft- 1 story	Dump Truc	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
2	Building - 10000 sqft- 1 story	Passenger	Gasoline	Urban Unrestricted Access	2.031107559	0.084118902	348.0772678	0.004883	0.00420782	0.00387462	0.04853165	0.0048076	0.0016645	24.958837	1.4127698	274.16505	0.0038458	0.0317855	0.0292685	4.9515693	0.736971
2	Building - 10000 sqft- 1 story	Tractor Tra	Diesel	Urban Unrestricted Access	0.549060841	1.78315709	2511.507091	0.017257	0.05798167	0.05624415	0.111547046	0.0722019	0.0034639	22.518663	0.3936248	296.35599	0.0020852	0.0119183	0.0115612	6.6282822	0
3	Parking Structure - 240000 s	Cement M	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
3	Parking Structure - 240000 s	Dump Truc	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
3	Parking Structure - 240000 s	Passenger	Gasoline	Urban Unrestricted Access	2.031107559	0.084118902	348.0772678	0.004883	0.00420782	0.00387462	0.04853165	0.0048076	0.0016645	24.958837	1.4127698	274.16505	0.0038458	0.0317855	0.0292685	4.9515693	0.736971
3	Parking Structure - 240000 s	Tractor Tra	Diesel	Urban Unrestricted Access	0.549060841	1.78315709	2511.507091	0.017257	0.05798167	0.05624415	0.111547046	0.0722019	0.0034639	22.518663	0.3936248	296.35599	0.0020852	0.0119183	0.0115612	6.6282822	0
4	Building - 100000 sqft- 10 st	Cement M	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
4	Building - 100000 sqft- 10 st	Dump Truc	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
4	Building - 100000 sqft- 10 st	Passenger	Gasoline	Urban Unrestricted Access	2.031107559	0.084118902	348.0772678	0.004883	0.00420782	0.00387462	0.04853165	0.0048076	0.0016645	24.958837	1.4127698	274.16505	0.0038458	0.0317855	0.0292685	4.9515693	0.736971
4	Building - 100000 sqft- 10 st	Tractor Tra	Diesel	Urban Unrestricted Access	0.549060841	1.78315709	2511.507091	0.017257	0.05798167	0.05624415	0.111547046	0.0722019	0.0034639	22.518663	0.3936248	296.35599	0.0020852	0.0119183	0.0115612	6.6282822	0
5	Access Road	Asphalt 18	Diesel	Urban Unrestricted Access	0.549060841	1.78315709	2511.507091	0.017257	0.05798167	0.05624415	0.111547046	0.0722019	0.0034639	22.518663	0.3936248	296.35599	0.0020852	0.0119183	0.0115612	6.6282822	0
5	Access Road	Cement M	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
5	Access Road	Dump Truc	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
5	Access Road	Dump Truc	Diesel	Urban Unrestricted Access	0.450985482	1.009790904	1376.848768	0.009448	0.02328418	0.02258646	0.082035744	0.0712947	0.0034639	23.257412	0.144407	281.97076	0.0019587	0.0060927	0.0059101	0.5861046	0
5	Access Road	Passenger	Gasoline	Urban Unrestricted Access	2.031107559	0.084118902	348.0772678	0.004883	0.00420782	0.00387462	0.04853165	0.0048076	0.0016645	24.958837	1.4127698	274.16505	0.0038458	0.0317855	0.0292685	4.9515693	0.736971

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scen	Project	Fugitive Ty	Variable	Default Values	Units	User Value		
1	Building - 10000 sqft- 1 story	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	462.5	yd3			
1	Building - 10000 sqft- 1 story	Concrete M	PM10 = 0.037 x V	17.1	lbs			
1	Building - 10000 sqft- 1 story	Material M	sL = Road surface silt loading	0.1	g/m3			
1	Building - 10000 sqft- 1 story	Material M	Wt. = Mean vehicle weight	32	tons			
1	Building - 10000 sqft- 1 story	Material M	VMT = Vehicle miles traveled	2360	miles			
1	Building - 10000 sqft- 1 story	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	21.9	lbs			
1	Building - 10000 sqft- 1 story	Material M	s = Surface material silt content	0.043	fraction			
1	Building - 10000 sqft- 1 story	Material M	Wt. = Mean vehicle weight	32	tons			
1	Building - 10000 sqft- 1 story	Material M	VMT = Vehicle miles traveled	2360	miles			
1	Building - 10000 sqft- 1 story	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	64.6	lbs			
2	Building - 10000 sqft- 1 story	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	462.5	yd3			
2	Building - 10000 sqft- 1 story	Concrete M	PM10 = 0.037 x V	17.1	lbs			
2	Building - 10000 sqft- 1 story	Material M	sL = Road surface silt loading	0.1	g/m3			
2	Building - 10000 sqft- 1 story	Material M	Wt. = Mean vehicle weight	32	tons			
2	Building - 10000 sqft- 1 story	Material M	VMT = Vehicle miles traveled	2580	miles			
2	Building - 10000 sqft- 1 story	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	23.9	lbs			
2	Building - 10000 sqft- 1 story	Material M	s = Surface material silt content	0.043	fraction			
2	Building - 10000 sqft- 1 story	Material M	Wt. = Mean vehicle weight	32	tons			
2	Building - 10000 sqft- 1 story	Material M	VMT = Vehicle miles traveled	2580	miles			
2	Building - 10000 sqft- 1 story	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	70.7	lbs			
3	Parking Structure - 240000 s	Asphalt Dr	A = Area of land affected = L x W x 0.0929	22296	m2		5.51	0.29203
3	Parking Structure - 240000 s	Asphalt Dr	AR = Application rate of liquefied asphalt c	1.811	l/m2			
3	Parking Structure - 240000 s	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
3	Parking Structure - 240000 s	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
3	Parking Structure - 240000 s	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
3	Parking Structure - 240000 s	Asphalt Dr	VOC = A x AR x VD x EF x D	17806.7	lbs			
3	Parking Structure - 240000 s	Material M	sL = Road surface silt loading	0.1	g/m3			
3	Parking Structure - 240000 s	Material M	Wt. = Mean vehicle weight	32	tons			
3	Parking Structure - 240000 s	Material M	VMT = Vehicle miles traveled	6450	miles			
3	Parking Structure - 240000 s	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	59.9	lbs			
3	Parking Structure - 240000 s	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	11100	yd3			
3	Parking Structure - 240000 s	Concrete M	PM10 = 0.037 x V	410.7	lbs			
3	Parking Structure - 240000 s	Material M	s = Surface material silt content	0.043	fraction			
3	Parking Structure - 240000 s	Material M	Wt. = Mean vehicle weight	32	tons			
3	Parking Structure - 240000 s	Material M	VMT = Vehicle miles traveled	6550.5	miles			
3	Parking Structure - 240000 s	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	179.4	lbs			
4	Building - 100000 sqft- 10 st	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	4625	yd3			
4	Building - 100000 sqft- 10 st	Concrete M	PM10 = 0.037 x V	171.1	lbs			
4	Building - 100000 sqft- 10 st	Material M	sL = Road surface silt loading	0.1	g/m3			
4	Building - 100000 sqft- 10 st	Material M	Wt. = Mean vehicle weight	32	tons			
4	Building - 100000 sqft- 10 st	Material M	VMT = Vehicle miles traveled	3870	miles			
4	Building - 100000 sqft- 10 st	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	35.9	lbs			
4	Building - 100000 sqft- 10 st	Material M	s = Surface material silt content	0.043	fraction			
4	Building - 100000 sqft- 10 st	Material M	Wt. = Mean vehicle weight	32	tons			
4	Building - 100000 sqft- 10 st	Material M	VMT = Vehicle miles traveled	3970	miles			
4	Building - 100000 sqft- 10 st	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	108.7	lbs			
5	Access Road	Asphalt Dr	A = Area of land affected = L x W x 0.0929	4143.3	m2			
5	Access Road	Asphalt Dr	AR = Application rate of liquefied asphalt c	1.811	l/m2			
5	Access Road	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
5	Access Road	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
5	Access Road	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
5	Access Road	Asphalt Dr	VOC = A x AR x VD x EF x D	3309.1	lbs			
5	Access Road	Asphalt St	T = Mass of asphalt loaded = L x W x 0.166	539	tons			
5	Access Road	Asphalt St	PM10 = (0.027 + 0.00042) x T	14.8	lbs			
5	Access Road	Asphalt St	CO = (0.4 + 0.0004) x T	215.8	lbs			
5	Access Road	Asphalt St	NOx = (0.025) x T	13.5	lbs			
5	Access Road	Asphalt St	SOx = (0.0046) x T	2.48	lbs			
5	Access Road	Asphalt St	VOC = (0.0082 + 0.0042) x T	6.684	lbs			
5	Access Road	Material M	s = Surface material silt content	0.043	fraction			
5	Access Road	Material M	Wt. = Mean vehicle weight	32	tons			
5	Access Road	Material M	VMT = Vehicle miles traveled	5394.7	miles			
5	Access Road	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	147.7	lbs			
5	Access Road	Material M	sL = Road surface silt loading	0.1	g/m3			
5	Access Road	Material M	Wt. = Mean vehicle weight	32	tons			
5	Access Road	Material M	VMT = Vehicle miles traveled	5160	miles			
5	Access Road	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	47.9	lbs			
5	Access Road	Concrete M	V = Volume of asphalt = 0.111 x L x W x 1.2	2062.8	yd3			
5	Access Road	Concrete M	PM10 = 0.037 x V	76.3	lbs			
5	Access Road	Unstabiliz	A = Area affected = L x W / 43560.0	1.024	acres			
5	Access Road	Unstabiliz	TPConv = TSP/PM10 conversion	0.5	fraction			
5	Access Road	Unstabiliz	CE = Control efficiency	0.63	fraction			
5	Access Road	Unstabiliz	t = year (e.g. 0.65 year)	1	years			
5	Access Road	Unstabiliz	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2000	0	lbs			
5	Access Road	Soil Handl	u = Wind speed	5	mph			
5	Access Road	Soil Handl	m = Moisture content	0.25	fraction			
5	Access Road	Soil Handl	T = Mass of aggregate storage pile = L x W x	1226.5	tons			
5	Access Road	Soil Handl	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] / [(m,	25.2	lbs			

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ASSUMPTIONS

Emission factors were developed from the following models:

- On-Road Vehicles: MOVES 2010b, revised January 2013
- Non-Road Equipment: NONROAD2008a, July 2009

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:
- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO_2, CH_4, and N_2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:
- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)
- Excavator
- Excavator for U/G Services/Tanks
- Flat Bed or Dump Trucks
- Flatbed Truck
- Grader
- Grout Wheel Truck
- Hoist Equipment with 40 Ton Rig
- Hydralic Hammer
- Hydroseeder
- Line Painting Truck and Sprayer
- Material Deliveries
- Off-Road Truck
- Pickup Truck
- Scraper
- Seed Truck Spreader
- Small Dozer
- Survey Crew Trucks
- Ten Wheelers
- Ten Wheelers- Material Delivery
- Tool Truck
- Tractor Trailer- Equipment Delivery
- Tractor Trailer- Material Delivery

Tractor Trailer- Steel Deliveries
Tractor Trailer- Stone Delivery
Tractor Trailer- Topsoil & Seed
Tractor Trailer- Truck Delivery
Tractor Trailer with Boom Hoist- Curbs Del & Place
Tractor Trailer with Boom Hoist- Delivery
Tractor Trailers- Rebar Deliveries
Tractor Trailers Temp Fac.
Truck for Topsoil & Seed Del&Spread
Water Truck
Excavator with Bucket
Excavator with Hoe Ram

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Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/17/2026 5:19:49 PM

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STUDY

Study Name

DFW Terminal SEA

Study Description

Construction 2030

2030 DFW CTA Supplemental EA Construction Emissions

Non-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Construction Activity	TEXN2.6 Equipment	TEXN2.6 Equipment	TEXN2.6 Lookup	Fuel	HP Average	Load Factor	Hours of Activity	TEXN2.6 NONROAD Emission Factors (g/hp-hr) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	TEXN2.6 Nonroad Emissions (Tons Per Year) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2030	Building - 10000 sqft- 1 story	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	0.48583	1.01289	0.00200	0.07244	0.07027	0.06900	0.00360	0.00750	0.00001	0.00054	0.00052	0.00051
1	2030	Building - 10000 sqft- 1 story	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00161	0.00457	0.00003	0.00032	0.00031	0.00030
1	2030	Building - 10000 sqft- 1 story	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	320	0.57426	1.22132	0.00177	0.09338	0.09058	0.05446	0.01195	0.02542	0.00004	0.00194	0.00189	0.00113
1	2030	Building - 10000 sqft- 1 story	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00214	0.00610	0.00004	0.00043	0.00041	0.00041
1	2030	Building - 10000 sqft- 1 story	Concrete Foundations	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	16	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00043	0.00122	0.00001	0.00009	0.00008	0.00008
1	2030	Building - 10000 sqft- 1 story	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00027	0.00076	0.00000	0.00005	0.00005	0.00005
1	2030	Building - 10000 sqft- 1 story	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00011	0.00030	0.00000	0.00002	0.00002	0.00002
1	2030	Building - 10000 sqft- 1 story	Exterior Wall Framing	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	240	0.57426	1.22132	0.00177	0.09338	0.09058	0.05446	0.00896	0.01906	0.00003	0.00146	0.00141	0.00085
1	2030	Building - 10000 sqft- 1 story	Exterior Wall Framing	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.25719	2.17857	0.00170	0.02759	0.02676	0.05414	0.00107	0.00908	0.00001	0.00011	0.00011	0.00023
1	2030	Building - 10000 sqft- 1 story	Exterior Wall Framing	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00161	0.00457	0.00003	0.00032	0.00031	0.00030
1	2030	Building - 10000 sqft- 1 story	Exterior Wall Framing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00064	0.00183	0.00001	0.00013	0.00012	0.00012
1	2030	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	960	0.57426	1.22132	0.00177	0.09338	0.09058	0.05446	0.03585	0.07625	0.00011	0.00583	0.00566	0.00340
1	2030	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Man Lift	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.25719	2.17857	0.00170	0.02759	0.02676	0.05414	0.00429	0.03631	0.00003	0.00046	0.00045	0.00090
1	2030	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00322	0.00915	0.00006	0.00064	0.00062	0.00061
1	2030	Building - 10000 sqft- 1 story	Interior Build-Out/ Finishes	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	120	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00322	0.00915	0.00006	0.00064	0.00062	0.00061
1	2030	Building - 10000 sqft- 1 story	Roofing	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.22239	0.90618	0.00178	0.03789	0.03675	0.01896	0.00174	0.00707	0.00001	0.00030	0.00029	0.00015
1	2030	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.25719	2.17857	0.00170	0.02759	0.02676	0.05414	0.00054	0.00454	0.00000	0.00006	0.00006	0.00011
1	2030	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	8	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00021	0.00061	0.00000	0.00004	0.00004	0.00004
1	2030	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	12	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00032	0.00091	0.00001	0.00006	0.00006	0.00006
1	2030	Building - 10000 sqft- 1 story	Security & Safety Systems	High Lift	Rough Terrain Forklifts	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.22239	0.90618	0.00178	0.03789	0.03675	0.01896	0.00463	0.01886	0.00004	0.00079	0.00076	0.00039
1	2030	Building - 10000 sqft- 1 story	Security & Safety Systems	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00214	0.00610	0.00004	0.00043	0.00041	0.00041
1	2030	Building - 10000 sqft- 1 story	Structural Steel Erection	40 Ton Crane	Cranes	Cranes300	Diesel	300	0.43	240	0.08214	0.34758	0.00145	0.01841	0.01786	0.02502	0.00280	0.01186	0.00005	0.00063	0.00061	0.00085
1	2030	Building - 10000 sqft- 1 story	Structural Steel Erection	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	120	0.57426	1.22132	0.00177	0.09338	0.09058	0.05446	0.00448	0.00953	0.00001	0.00073	0.00071	0.00043
1	2030	Building - 10000 sqft- 1 story	Structural Steel Erection	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00161	0.00457	0.00003	0.00032	0.00031	0.00030
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2	2030	Taxiways	Clearing and Grubbing	Chain Saw	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.7	67.2	1.75565	2.99053	0.00198	0.16953	0.16445	0.59845	0.00100	0.00171	0.00000	0.00010	0.00009	0.00034
2	2030	Taxiways	Clearing and Grubbing	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	67.2	0.57426	1.22132	0.00177	0.09338	0.09058	0.05446	0.00183	0.00389	0.00001	0.00030	0.00029	0.00017
2	2030	Taxiways	Clearing and Grubbing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	89.6	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00240	0.00683	0.00004	0.00048	0.00046	0.00046
2	2030	Taxiways	Concrete Placement	Air Compressor	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	81.5848	0.57426	1.22132	0.00177	0.09338	0.09058	0.05446	0.00222	0.00472	0.00001	0.00036	0.00035	0.00021
2	2030	Taxiways	Concrete Placement	Concrete Saws	Other Construction Equipment	Other Construction Equipment40	Diesel	40	0.59	81.5848	0.25055	2.15950	0.00169	0.02088	0.02025	0.08071	0.00053	0.00458	0.00000	0.00004	0.00004	0.00017
2	2030	Taxiways	Concrete Placement	Concrete Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	339.9366667	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00911	0.02591	0.00016	0.00181	0.00176	0.00173
2	2030	Taxiways	Concrete Placement	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	163.1696	0.21560	0.64349	0.00148	0.05300	0.05141	0.03881	0.00292	0.00871	0.00002	0.00072	0.00070	0.00053
2	2030	Taxiways	Concrete Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	244.7544	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00656	0.01866	0.00012	0.00130	0.00127	0.00124
2	2030	Taxiways	Concrete Placement	Rubber Tired Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	81.5848	0.47993	0.88397	0.00130	0.08967	0.08698	0.12297	0.00446	0.00821	0.00001	0.00083	0.00081	0.00114
2	2030	Taxiways	Concrete Placement	Slip Form Paver	Pavers	Pavers175	Diesel	175	0.59	81.5848	0.39187	1.04951	0.00151	0.06856	0.06651	0.07696	0.00364	0.00975	0.00001	0.00064	0.00062	0.00071
2	2030	Taxiways	Concrete Placement	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	Diesel	25	0.59	81.5848	1.24813	3.16128	0.00233	0.14203	0.13777	0.29546	0.00166	0.00419	0.00000	0.00019	0.00018	0.00039
2	2030	Taxiways	Drainage - 24 inch SICPP	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	70.88	0.09401	0.27349	0.00135	0.02174	0.02109	0.01626	0.00076	0.00221	0.00001	0.00018	0.00017	0.00013
2	2030	Taxiways	Drainage - 24 inch SICPP	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	70.88	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00190	0.00540	0.00003	0.00038	0.00037	0.00036
2	2030	Taxiways	Drainage - 24 inch SICPP	Excavator	Excavators	Excavators175	Diesel	175	0.59	70.88	0.07639	0.23883	0.00141	0.01845	0.01790	0.01286	0.00062	0.00193	0.00001	0.00015	0.00014	0.00010
2	2030	Taxiways	Drainage - 24 inch SICPP	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	70.88	0.47993	0.88397	0.00130	0.08967	0.08698	0.12297	0.00387	0.00713	0.00001	0.00072	0.00070	0.00099
2	2030	Taxiways	Drainage - 24 inch SICPP	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	70.88	0.21560	0.64349	0.00148	0.05300	0.05141	0.03881	0.00127	0.00378	0.00001	0.00031	0.00030	0.00023
2	2030	Taxiways	Drainage - 24 inch SICPP	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	70.88	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00190	0.00540	0.00003	0.00038	0.00037	0.00036
2	2030	Taxiways	Drainage - 24 inch SICPP	Roller	Rollers	Rollers100	Diesel	100	0.59	70.88	0.78029	1.42898	0.00184	0.12251	0.11884	0.08455	0.00360	0.00659	0.00001	0.00056	0.00055	0.00039
2	2030	Taxiways	Drainage - 6 inch Perforated Underdrai	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	39.37777778	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00106	0.00300	0.00002	0.00021	0.00020	0.00020
2	2030	Taxiways	Drainage - 6 inch Perforated Underdrai	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	39.37777778	0.47993	0.88397	0.00130	0.08967	0.08698	0.12297	0.00215	0.00396	0.00001	0.00040	0.00039	0.00055
2	2030	Taxiways	Drainage - 6 inch Perforated Underdrai	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	39.37777778	0.21560	0.64349	0.00148	0.05300	0.05141	0.03881	0.00070	0.00210	0.00000	0.00017	0.00017	0.00013
2	2030	Taxiways	Drainage - 6 inch Perforated Underdrai	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	39.37777778	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00106	0.00300	0.00002	0.00021	0.00020	0.00020
2	2030	Taxiways	Drainage - 6 inch Perforated Underdrai	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	39.37777778	0.48583	1.01289	0.00200	0.07244	0.07027	0.06900	0.00044	0.00092	0.00000	0.00007	0.00006	0.00006
2	2030	Taxiways	Dust Control	Water Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	2880	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.07718	0.21951	0.00136	0.01535	0.01489	0.01464
2	2030	Taxiways	Excavation (Borrow)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	135.9746667	0.09401	0.27349	0.00135	0.02174	0.02109	0.01626	0.00145	0.00423	0.00002	0.00034	0.00033	0.00025
2	2030	Taxiways	Excavation (Borrow)	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	135.9746667	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00364	0.01036	0.00006	0.00072	0.00070	0.00069
2	2030	Taxiways	Excavation (Borrow)	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	135.9746667	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00364	0.01036	0.00006	0.00072	0.00070	0.00069
2	2030	Taxiways	Excavation (Borrow)	Roller	Rollers	Rollers100	Diesel	100	0.59	62.75753846	0.78029	1.42898	0.00184	0.12251	0.11884	0.08455	0.00318	0.00583	0.00001	0.00050	0.00049	0.00035
2	2030	Taxiways	Excavation (Cut to Fill)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	101.981	0.09401	0.27349	0.00135	0.02174	0.02109	0.01626	0.00109	0.00317	0.00002	0.00025	0.00024	0.00019
2	2030	Taxiways	Excavation (Cut to Fill)	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	271.9493333	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00729	0.02073	0.00013	0.00145	0.00141	0.00138
2	2030	Taxiways	Excavation (Cut to Fill)	Excavator	Excavators	Excavators175	Diesel	175	0.59	81.5848	0.07639	0.23883	0.00141	0.01845	0.01790	0.01286	0.00071	0.00222	0.00001	0.00017	0.00017	0.00012
2	2030	Taxiways	Excavation (Cut to Fill)	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	81.5848	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00219	0.00622	0.00004	0.00043	0.00042	0.00041
2	2030	Taxiways	Excavation (Cut to Fill)	Roller	Rollers	Rollers100	Diesel	100	0.59	81.5848	0.78029	1.42898	0.00184	0.12251	0.11884	0.08455	0.00414	0.00758	0.00001	0.00065	0.00063	0.00045
2	2030	Taxiways	Excavation (Cut to Fill)	Scraper	Scrapers	Scrapers600	Diesel	600	0.59	101.981	0.18218	0.44574	0.00130	0.03004	0.02914	0.02788	0.00725	0.01774	0.00005	0.00120	0.00116	0.00111
2	2030	Taxiways	Excavation (Topsoil Stripping)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	38.39294118	0.09401	0.27349	0.00135	0.02174	0.02109	0.01626	0.00041	0.00120	0.00001	0.00010	0.00009	0.00007
2	2030	Taxiways	Fencing	Concrete Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24.5	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00066	0.00187	0.00001	0.00013	0.00013	0.00012
2	2030	Taxiways	Fencing	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	98	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00263	0.00747	0.00005	0.00052	0.00051	0.00050
2	2030	Taxiways	Fencing	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	98	0.21560	0.64349	0.00148	0.05300	0.05141	0.03881	0.00175	0.00523	0.00001	0.00043	0.00042	0.00032
2	2030	Taxiways	Fencing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	98	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00263	0.00747	0.00005	0.00052	0.00051	0.00050
2	2030	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	98	0.15364	2.06472	0.00188	0.01485	0.01441	0.04103	0.00026	0.00351	0.00000	0.00003	0.00002	0.00007
2	2030	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	98	0.48583	1.01289	0.00200	0.07244	0.07027	0.06900	0.00110	0.00230	0.00000	0.00016	0.00016	0.00016
2	2030	Taxiways	Grading	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	27.0452	0.09401	0.27349	0.00135	0.02174	0.02109	0.01626	0.00029	0.00084	0.00000	0.00007	0.00006	0.00005
2	2030	Taxiways	Grading	Grader	Graders	Graders300	Diesel	300	0.59	27.0452	0.21119	0.62214	0.00134	0.03365	0.03264	0.04870	0.00111	0.00328	0.00001	0.00018	0.00017	0.00026
2	2030	Taxiways	Grading	Roller	Rollers	Rollers100	Diesel	100	0.59	27.0452	0.78029	1.42898	0.00184	0.12251	0.11884	0.08455	0.00137	0.00251	0.00000	0.00022	0.00021	0.00015
2	2030	Taxiways	Hydroseeding	Hydroseeder	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	24.365	0.46600	1.00952	0.00147	0.07176	0.06960	0.06617	0.00443	0.00960	0.00001	0.00068	0.00066	0.00063
2	2030	Taxiways	Hydroseeding	Off-Road Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24.365	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00065	0.00186	0.00001	0.00013	0.00013	0.00012
2	2030	Taxiways	Lighting	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	30.73333333	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00082	0.00234	0.00001	0.00016	0.00016	0.00016
2	2030	Taxiways	Lighting	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	30.73333333	0.47993	0.88397	0.00130	0.08967	0.08698	0.12297	0.00168	0.00309	0.00000	0.00031	0.00030	0.00043
2	2030	Taxiways	Lighting	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	30.73333333	0.21560	0.64349	0.00148	0.05300	0.05141	0.03881	0.00055	0.00164	0.00000	0.00014	0.00013	0.00010
2	2030	Taxiways	Lighting	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	30.73333333	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00082	0.00234	0.00001	0.00016	0.00016	0.00016
2	2030	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	30.73333333	0.15364	2.06472	0.00188	0.01485	0.01441	0.04103	0.00008	0.00110	0.00000	0.00001	0.00001	0.00002
2	2030	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	30.73333333	0.48583	1.01289	0.00200	0.07244	0.07027	0.06900	0.00035	0.00072	0.00000	0.00005	0.00005	0.00005
2	2030	Taxiways	Markings	Flatbed Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	504	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.01351	0.03842	0.00024	0.00269	0.00261	0.00256
2	2030	Taxiways	Markings	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	504	0.21560	0.64349	0.00148	0.05300	0.05141	0.03881	0.00901	0.02690	0.00006	0.00222	0.00215	0.00162
2	2030	Taxiways	Markings	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	504	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.01351	0.03842	0.00024	0.00269	0.00261	0.00256
2	2030	Taxiways	Soil Erosion/Sediment Control	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	22.4	0.21560	0.64349	0.00148	0.05300	0.05141	0.03881	0.00040	0.00120	0.00000	0.00010	0.00010	0.00007
2	2030	Taxiways	Soil Erosion/Sediment Control	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	44.8	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00120	0.00341	0.00002	0.00024	0.00023	0.00023
2	2030	Taxiways	Soil Erosion/Sediment Control	Pumps	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	22.4	1.75565	2.99053	0.00198	0.16953	0.16445	0.59845	0.00021	0.00035	0.00000	0.00002	0.00002	0.00007
2	2030	Taxiways	Soil Erosion/Sediment Control	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	22.4	0.48583	1.01289	0.00200	0.07244	0.07027	0.06900	0.00025	0.00053	0.00000	0.00004	0.00004	0.00004
2	2030	Taxiways	Subbase Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	51.52736842	0.09401	0.27349	0.00135	0.02174	0.02109	0.01626	0.00055	0.00160	0.00001	0.00013	0.00012	0.00010
2	2030	Taxiways	Subbase Placement	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	362.6	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00972	0.02764	0.00017	0.00193	0.00187	0.00184
2	2030	Taxiways	Subbase Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	51.52736842	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00138	0.00393	0.00002	0.00027	0.00027	0.00026
2	2030	Taxiways	Subbase Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	50.20615385	0.78029	1.42898	0.00184	0.12251	0.11884	0.08455	0.00255	0.00467	0.00001	0.00040	0.00039	0.00028
2	2030	Taxiways	Topsoil Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	60.1	0.09401	0.27349	0.00135	0.02174	0.02109	0.01626	0.00064	0.00187	0.00001	0.00015	0.00014	0.00011
2	2030	Taxiways	Topsoil Placement	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60.1	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00161	0.00458	0.00003	0.00032	0.00031	0.00031
2	2030	Taxiways	Topsoil Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60.1	0.06867	0.19533	0.00121	0.01366	0.01325	0.01303	0.00161	0.00458	0.00003	0.00032	0.00031	0.00031
																TOTAL (Tons Per Year)	1.43	3.98	0.02	0.26	0.25	0.24

On-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Equipment	Equipment Category	MOVES5 Onroad Lookup	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Distance for fugitive PM	Number of Vehicles	Number of Employees Or SM*11	Number of Project Days	Project Length	Project Width	Project Area	Building Height (Building	Open Space Height	Number of Trees	Activity Rate	VMT	MOVES5 Onroad Emission Factor (g/mile) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	MOVES Onroad Emissions (Tons Per Year) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2030	Building - 10000 sqft- 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	86	--	--	10000	--	--	--	--	2,313	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.00237	0.00247	0.00001	0.00028	0.00010	0.00007
1	2030	Building - 10000 sqft- 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	86	--	--	10000	--	--	--	--	1,233	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.00126	0.00132	0.00000	0.00015	0.00005	0.00004
1	2030	Building - 10000 sqft- 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	58.223	58.223	86	--	--	--	--	--	--	--	150,215	2.55805	0.02695	0.00228	0.02628	0.00752	0.04457	0.42357	0.00446	0.00038	0.00435	0.00124	0.00738
1	2030	Building - 10000 sqft- 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	86	--	--	10000	--	--	--	0.0016	160	2.88272	3.56089	0.00556	0.45884	0.16200	0.05995	0.00051	0.00063	0.00000	0.00008	0.00003	0.00001
2	2030	Parking Structure - 240000 sqft- G+2 stor	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	258	--	--	240000	--	--	--	--	55,500	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.05691	0.05920	0.00015	0.00680	0.00237	0.00163
2	2030	Parking Structure - 240000 sqft- G+2 stor	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258	--	--	240000	--	--	--	--	29,600	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.03035	0.03157	0.00008	0.00362	0.00126	0.00087
2	2030	Parking Structure - 240000 sqft- G+2 stor	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	836.077	836.077	258	--	--	--	--	--	--	--	328,950	2.55805	0.02695	0.00228	0.02628	0.00752	0.04457	0.92757	0.00977	0.00083	0.00953	0.00273	0.01616
2	2030	Parking Structure - 240000 sqft- G+2 stor	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	240000	--	--	--	0.00083	1,992	2.88272	3.56089	0.00556	0.45884	0.16200	0.05995	0.00633	0.00782	0.00001	0.00101	0.00036	0.00013
3	2030	Building - 100000 sqft- 10 stories	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258	--	--	100000	--	--	--	--	23,125	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.02371	0.02467	0.00006	0.00283	0.00099	0.00068
3	2030	Building - 100000 sqft- 10 stories	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	100000	--	--	--	--	12,333	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.01265	0.01316	0.00003	0.00151	0.00053	0.00036
3	2030	Building - 100000 sqft- 10 stories	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	685.234	685.234	258	--	--	--	--	--	--	--	348,300	2.55805	0.02695	0.00228	0.02628	0.00752	0.04457	0.98213	0.01035	0.00088	0.01009	0.00289	0.01711
3	2030	Building - 100000 sqft- 10 stories	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	100000	--	--	--	0.0024	2,400	2.88272	3.56089	0.00556	0.45884	0.16200	0.05995	0.00763	0.00942	0.00001	0.00121	0.00043	0.00016
4	2030	Access Road	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	1115	40	--	--	--	--	--	647	2.88272	3.56089	0.00556	0.45884	0.16200	0.05995	0.00206	0.00254	0.00000	0.00033	0.00012	0.00004
4	2030	Access Road	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	1115	40	--	--	--	--	--	10,314	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.01058	0.01100	0.00003	0.00126	0.00044	0.00030
4	2030	Access Road	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	1115	40	--	--	--	--	--	917	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.00094	0.00098	0.00000	0.00011	0.00004	0.00003
4	2030	Access Road	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	1115	40	--	--	--	--	--	5,501	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.00564	0.00587	0.00002	0.00067	0.00023	0.00016
4	2030	Access Road	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	268.466	268.466	258	--	--	--	--	--	--	--	2,077,927	2.55805	0.02695	0.00228	0.02628	0.00752	0.04457	5.85930	0.06173	0.00523	0.06020	0.01722	0.10210
5	2030	Building - 10000 sqft- 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	--	2,313	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.00237	0.00247	0.00001	0.00028	0.00010	0.00007

5	2030	Building - 10000 sqft- 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	--	1,233	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.00126	0.00132	0.00000	0.00015	0.00005	0.00004
5	2030	Building - 10000 sqft- 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	599.951	599.951	258	--	--	--	--	--	--	--	241,875	2.55805	0.02695	0.00228	0.02628	0.00752	0.04457	0.68203	0.00718	0.00061	0.00701	0.00200	0.01188
5	2030	Building - 10000 sqft- 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.88272	3.56089	0.00556	0.45884	0.16200	0.05995	0.00051	0.00063	0.00000	0.00008	0.00003	0.00001
1	2030	Taxiways	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	2335	100	--	--	--	--	--	3,388	2.88272	3.56089	0.00556	0.45884	0.16200	0.05995	0.01077	0.01330	0.00002	0.00171	0.00061	0.00022
1	2030	Taxiways	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	258	2335	100	--	--	--	--	--	53,997	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.05537	0.05760	0.00015	0.00661	0.00230	0.00159
1	2030	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	2335	100	--	--	--	--	--	4,800	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.00492	0.00512	0.00001	0.00059	0.00020	0.00014
1	2030	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258	2335	100	--	--	--	--	--	28,798	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.02953	0.03072	0.00008	0.00353	0.00123	0.00085
1	2030	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	225.786	225.786	258	--	--	--	--	--	--	--	1,747,584	2.55805	0.02695	0.00228	0.02628	0.00752	0.04457	4.92780	0.05191	0.00440	0.05063	0.01448	0.08587
2	2030	Taxiways	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	2205	100	--	--	--	--	--	3,199	2.88272	3.56089	0.00556	0.45884	0.16200	0.05995	0.01017	0.01256	0.00002	0.00162	0.00057	0.00021
2	2030	Taxiways	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	258	2205	100	--	--	--	--	--	50,991	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.05229	0.05439	0.00014	0.00624	0.00217	0.00150
2	2030	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	2205	100	--	--	--	--	--	4,533	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.00465	0.00484	0.00001	0.00056	0.00019	0.00013
2	2030	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258	2205	100	--	--	--	--	--	27,195	0.93021	0.96768	0.00250	0.11108	0.03868	0.02669	0.02789	0.02901	0.00007	0.00333	0.00116	0.00080
2	2030	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	73	73	258	--	--	--	--	--	--	--	565,020	2.55805	0.02695	0.00228	0.02628	0.00752	0.04457	1.59323	0.01678	0.00142	0.01637	0.00468	0.02776
																											TOTAL (Tons Per Year)	15.756	0.545	0.015	0.203	0.061	0.278

Fugitive Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive Source Type	Number of Months	CO	NOx	SO_2	PM_{10}	VOC
1	2030	Building - 10000 sqft- 1 story	Concrete Mixing/Batching	4	0.00000	0.00000	0.00000	0.00855	0.00000
1	2030	Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	4	0.00000	0.00000	0.00000	0.00399	0.00000
1	2030	Building - 10000 sqft- 1 story	Material Movement (Unpaved Roads)	4	0.00000	0.00000	0.00000	0.01180	0.00000
2	2030	Parking Structure - 240000 sqft- G+2 stor	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.29203
2	2030	Parking Structure - 240000 sqft- G+2 stor	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.20535	0.00000
2	2030	Parking Structure - 240000 sqft- G+2 stor	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.02995	0.00000
2	2030	Parking Structure - 240000 sqft- G+2 stor	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.08970	0.00000
3	2030	Building - 100000 sqft- 10 stories	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.08555	0.00000
3	2030	Building - 100000 sqft- 10 stories	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.01795	0.00000
3	2030	Building - 100000 sqft- 10 stories	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.05435	0.00000
4	2030	Access Road	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.05406
4	2030	Access Road	Asphalt Storage and Batching	12	0.10790	0.00675	0.00124	0.00740	0.00334
4	2030	Access Road	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.03815	0.00000
4	2030	Access Road	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.02395	0.00000
4	2030	Access Road	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.07385	0.00000
4	2030	Access Road	Soil Handling	12	0.00000	0.00000	0.00000	0.01260	0.00000
4	2030	Access Road	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	0.00000
5	2030	Building - 10000 sqft- 1 story	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.00855	0.00000
5	2030	Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.01195	0.00000
5	2030	Building - 10000 sqft- 1 story	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.03535	0.00000
1	2030	Taxiways	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.28355
1	2030	Taxiways	Asphalt Storage and Batching	12	0.56495	0.03530	0.00650	0.03870	0.01750
1	2030	Taxiways	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.04190	0.00000
1	2030	Taxiways	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.13480	0.00000
1	2030	Taxiways	Soil Handling	12	0.00000	0.00000	0.00000	0.06610	0.00000
1	2030	Taxiways	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	0.00000
2	2030	Taxiways	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.26765
2	2030	Taxiways	Asphalt Storage and Batching	12	0.53350	0.03330	0.00615	0.03655	0.01650
2	2030	Taxiways	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.18865	0.00000
2	2030	Taxiways	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.04190	0.00000
2	2030	Taxiways	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.13420	0.00000
2	2030	Taxiways	Soil Handling	12	0.00000	0.00000	0.00000	0.06240	0.00000
2	2030	Taxiways	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	0.00000
				TOTAL (Tons Per Year)	1.2064	0.0754	0.0139	1.4642	0.9346

Total Construction Emissions By Source

Emission Source	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
NonRoad	1.43	3.98	0.02	0.26	0.25	0.24
OnRoad	15.76	0.54	0.01	0.20	0.06	0.28
Fugitive	1.21	0.08	0.01	1.46	--	0.93
TOTAL (Tons Per Year)	18.40	4.60	0.04	1.93	0.31	1.45

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INPUT DATA AND SPECIFICATIONS

State/County
Texas
Dallas County

Scenarios

Sce	Year	Number of M	Season	Average Daily Temp (degF)	Max Daily Temp Change (degF)	Min Daily Temp Change (degF)
1	2030	4	Summer	T <= 10	20 <= Change in T	20 <= Change in T
2	2030	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
3	2030	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
4	2030	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
5	2030	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
6						

Project Final Selections

Sce	Project	Constructior	Equipment	Fuel Type
1	Building - 10000 sqft- 1 story	Concrete Fo	Backhoe	Diesel
1	Building - 10000 sqft- 1 story	Concrete Fo	Concrete Ready Mix Trucks	Diesel
1	Building - 10000 sqft- 1 story	Concrete Fo	Fork Truck	Diesel
1	Building - 10000 sqft- 1 story	Concrete Fo	Tool Truck	Diesel
1	Building - 10000 sqft- 1 story	Concrete Fo	Tractor Trailer- Material Delivery	Diesel
1	Building - 10000 sqft- 1 story	Constructior	Survey Crew Trucks	Diesel
1	Building - 10000 sqft- 1 story	Constructior	Tractor Trailers Temp Fac.	Diesel
1	Building - 10000 sqft- 1 story	Exterior Wal	Fork Truck	Diesel
1	Building - 10000 sqft- 1 story	Exterior Wal	Man Lift	Diesel
1	Building - 10000 sqft- 1 story	Exterior Wal	Tool Truck	Diesel
1	Building - 10000 sqft- 1 story	Exterior Wal	Tractor Trailer- Material Delivery	Diesel
1	Building - 10000 sqft- 1 story	Interior Buil	Fork Truck	Diesel
1	Building - 10000 sqft- 1 story	Interior Buil	Man Lift	Diesel
1	Building - 10000 sqft- 1 story	Interior Buil	Tool Truck	Diesel
1	Building - 10000 sqft- 1 story	Interior Buil	Tractor Trailer- Material Delivery	Diesel
1	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel
1	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel
1	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel
1	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel
1	Building - 10000 sqft- 1 story	Security & S	High Lift	Diesel
1	Building - 10000 sqft- 1 story	Security & S	Tool Truck	Diesel
1	Building - 10000 sqft- 1 story	Structural St	40 Ton Crane	Diesel
1	Building - 10000 sqft- 1 story	Structural St	Fork Truck	Diesel
1	Building - 10000 sqft- 1 story	Structural St	Tool Truck	Diesel
1	Building - 10000 sqft- 1 story	Structural St	Tractor Trailer- Steel Deliveries	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Asphalt Pav	Asphalt Paver	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Asphalt Pav	Front Loader for Subgrade Materials	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Asphalt Pav	Ten Wheelers- Material Delivery	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	40 Ton Rough Terrain Crane	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Backhoe	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Caisson Drilling Rig	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Concrete Pump	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Concrete Ready Mix Trucks	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Excavator	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Fork Truck	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Front Loader	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Tool Truck	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Tractor Trailer- Material Delivery	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Tractor Trailer- Stone Delivery	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Trencher for U/G Piping	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	90 Ton Crane	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	Concrete Boom Pump	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	Concrete Ready Mix Trucks	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	Tractor Trailer- Steel Deliveries	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	Trowel Machines (4) machines	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Constructior	Survey Crew Trucks	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Constructior	Tractor Trailers Temp Fac.	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Lights and P	Forklift	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Lights and P	High Lift	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Lights and P	Tool Truck	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Lights and P	Trencher	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Precast Con	40 Ton Rough Terrain	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Precast Con	Fork Truck	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Precast Con	Tractor Trailer- Material Delivery	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Security & S	High Lift	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Security & S	Tool Truck	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Site Prep/La	Front Loader	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Site Prep/La	Tractor Trailer with Boom Hoist- Curbs De	Diesel
2	Parking Structure - 240000 sqft- G+2 sto	Site Prep/La	Truck for Topsoil & Seed Del&Spread	Diesel
3	Building - 100000 sqft- 10 stories	Concrete Fo	Backhoe	Diesel
3	Building - 100000 sqft- 10 stories	Concrete Fo	Concrete Pump	Diesel
3	Building - 100000 sqft- 10 stories	Concrete Fo	Concrete Ready Mix Trucks	Diesel
3	Building - 100000 sqft- 10 stories	Concrete Fo	Excavator	Diesel
3	Building - 100000 sqft- 10 stories	Concrete Fo	Fork Truck	Diesel
3	Building - 100000 sqft- 10 stories	Concrete Fo	Tool Truck	Diesel
3	Building - 100000 sqft- 10 stories	Concrete Fo	Tractor Trailer- Material Delivery	Diesel
3	Building - 100000 sqft- 10 stories	Constructior	Survey Crew Trucks	Diesel
3	Building - 100000 sqft- 10 stories	Constructior	Tractor Trailers Temp Fac.	Diesel
3	Building - 100000 sqft- 10 stories	Exterior Wal	Fork Truck	Diesel
3	Building - 100000 sqft- 10 stories	Exterior Wal	Generator	Diesel
3	Building - 100000 sqft- 10 stories	Exterior Wal	Grout Mixer	Diesel
3	Building - 100000 sqft- 10 stories	Exterior Wal	Grout Wheel Truck	Diesel
3	Building - 100000 sqft- 10 stories	Exterior Wal	Man Lift	Diesel
3	Building - 100000 sqft- 10 stories	Exterior Wal	Tool Truck	Diesel
3	Building - 100000 sqft- 10 stories	Exterior Wal	Tractor Trailer- Material Delivery	Diesel
3	Building - 100000 sqft- 10 stories	Exterior Wal	Truck Tower (Mantiwoc type)	Diesel
3	Building - 100000 sqft- 10 stories	Interior Buil	Fork Truck	Diesel
3	Building - 100000 sqft- 10 stories	Interior Buil	Man Lift	Diesel
3	Building - 100000 sqft- 10 stories	Interior Buil	Tool Truck	Diesel
3	Building - 100000 sqft- 10 stories	Interior Buil	Tractor Trailer- Material Delivery	Diesel
3	Building - 100000 sqft- 10 stories	Roofing	High Lift	Diesel
3	Building - 100000 sqft- 10 stories	Roofing	Man Lift	Diesel
3	Building - 100000 sqft- 10 stories	Roofing	Material Deliveries	Diesel
3	Building - 100000 sqft- 10 stories	Roofing	Tractor Trailer- Material Delivery	Diesel
3	Building - 100000 sqft- 10 stories	Roofing	Truck Tower (Mantiwoc type)	Diesel
3	Building - 100000 sqft- 10 stories	Security & S	High Lift	Diesel
3	Building - 100000 sqft- 10 stories	Security & S	Tool Truck	Diesel
3	Building - 100000 sqft- 10 stories	Structural St	90 Ton Crane	Diesel
3	Building - 100000 sqft- 10 stories	Structural St	Concrete Pump	Diesel
3	Building - 100000 sqft- 10 stories	Structural St	Concrete Truck	Diesel
3	Building - 100000 sqft- 10 stories	Structural St	Fork Truck	Diesel
3	Building - 100000 sqft- 10 stories	Structural St	Tool Truck	Diesel
3	Building - 100000 sqft- 10 stories	Structural St	Tractor Trailer- Steel Deliveries	Diesel
3	Building - 100000 sqft- 10 stories	Structural St	Trowel Machine	Diesel
3	Building - 100000 sqft- 10 stories	Structural St	Truck Tower (Mantiwoc type)	Diesel
4	Access Road	Asphalt Plac	Asphalt Paver	Diesel
4	Access Road	Asphalt Plac	Dump Truck	Diesel
4	Access Road	Asphalt Plac	Other General Equipment	Diesel
4	Access Road	Asphalt Plac	Pickup Truck	Diesel
4	Access Road	Asphalt Plac	Roller	Diesel
4	Access Road	Asphalt Plac	Skid Steer Loader	Diesel
4	Access Road	Asphalt Plac	Surfacing Equipment (Grooving)	Diesel
4	Access Road	Clearing anc	Chain Saw	Diesel
4	Access Road	Clearing anc	Chipper/Stump Grinder	Diesel
4	Access Road	Clearing anc	Pickup Truck	Diesel
4	Access Road	Concrete Pla	Air Compressor	Diesel
4	Access Road	Concrete Pla	Concrete Saws	Diesel
4	Access Road	Concrete Pla	Concrete Truck	Diesel
4	Access Road	Concrete Pla	Other General Equipment	Diesel
4	Access Road	Concrete Pla	Pickup Truck	Diesel
4	Access Road	Concrete Pla	Rubber Tired Loader	Diesel
4	Access Road	Concrete Pla	Slip Form Paver	Diesel
4	Access Road	Concrete Pla	Surfacing Equipment (Grooving)	Diesel
4	Access Road	Curbing	Concrete Truck	Diesel
4	Access Road	Curbing	Curb/Gutter Paver	Diesel
4	Access Road	Curbing	Other General Equipment	Diesel
4	Access Road	Curbing	Pickup Truck	Diesel
4	Access Road	Drainage - 2	Dozer	Diesel
4	Access Road	Drainage - 2	Dump Truck	Diesel
4	Access Road	Drainage - 2	Excavator	Diesel
4	Access Road	Drainage - 2	Loader	Diesel
4	Access Road	Drainage - 2	Other General Equipment	Diesel
4	Access Road	Drainage - 2	Pickup Truck	Diesel
4	Access Road	Drainage - 2	Roller	Diesel
4	Access Road	Drainage - 6	Dump Truck	Diesel
4	Access Road	Drainage - 6	Loader	Diesel
4	Access Road	Drainage - 6	Other General Equipment	Diesel
4	Access Road	Drainage - 6	Pickup Truck	Diesel
4	Access Road	Drainage - 6	Tractors/Loader/Backhoe	Diesel
4	Access Road	Dust Control	Water Truck	Diesel
4	Access Road	Excavation (	Dozer	Diesel
4	Access Road	Excavation (	Dump Truck (12 cy)	Diesel
4	Access Road	Excavation (	Pickup Truck	Diesel
4	Access Road	Excavation (	Roller	Diesel
4	Access Road	Excavation (	Dozer	Diesel
4	Access Road	Excavation (	Dump Truck (12 cy)	Diesel
4	Access Road	Excavation (	Excavator	Diesel
4	Access Road	Excavation (	Pickup Truck	Diesel
4	Access Road	Excavation (	Roller	Diesel
4	Access Road	Excavation (	Scraper	Diesel
4	Access Road	Excavation (	Dozer	Diesel
4	Access Road	Fencing	Concrete Truck	Diesel
4	Access Road	Fencing	Dump Truck	Diesel
4	Access Road	Fencing	Other General Equipment	Diesel
4	Access Road	Fencing	Pickup Truck	Diesel
4	Access Road	Fencing	Skid Steer Loader	Diesel
4	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel
4	Access Road	Grading	Dozer	Diesel
4	Access Road	Grading	Grader	Diesel
4	Access Road	Grading	Roller	Diesel
4	Access Road	Hydroseedir	Hydroseeder	Diesel
4	Access Road	Hydroseedir	Off-Road Truck	Diesel
4	Access Road	Markings	Flatbed Truck	Diesel
4	Access Road	Markings	Other General Equipment	Diesel
4	Access Road	Markings	Pickup Truck	Diesel
4	Access Road	Sidewalks	Concrete Truck	Diesel
4	Access Road	Sidewalks	Dump Truck	Diesel
4	Access Road	Sidewalks	Pickup Truck	Diesel
4	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel
4	Access Road	Sidewalks	Vibratory Compactor	Diesel
4	Access Road	Soil Erosion/	Other General Equipment	Diesel
4	Access Road	Soil Erosion/	Pickup Truck	Diesel
4	Access Road	Soil Erosion/	Pumps	Diesel
4	Access Road	Soil Erosion/	Tractors/Loader/Backhoe	Diesel
4	Access Road	Street Lighti	Dump Truck	Diesel
4	Access Road	Street Lighti	Loader	Diesel
4	Access Road	Street Lighti	Other General Equipment	Diesel
4	Access Road	Street Lighti	Pickup Truck	Diesel
4	Access Road	Street Lighti	Skid Steer Loader	Diesel
4	Access Road	Street Lighti	Tractors/Loader/Backhoe	Diesel
4	Access Road	Subbase Pla	Dozer	Diesel
4	Access Road	Subbase Pla	Dump Truck (12 cy)	Diesel
4	Access Road	Subbase Pla	Pickup Truck	Diesel
4	Access Road	Subbase Pla	Roller	Diesel
4	Access Road	Topsoil Plac	Dozer	Diesel
4	Access Road	Topsoil Plac	Dump Truck	Diesel
4	Access Road	Topsoil Plac	Pickup Truck	Diesel
4	Access Road	Tree Plantin	Flatbed Truck	Diesel
4	Access Road	Tree Plantin	Other General Equipment	Diesel
4	Access Road	Tree Plantin	Pickup Truck	Diesel
4	Access Road	Tree Plantin	Tractors/Loader/Backhoe	Diesel
5	Building - 10000 sqft- 1 story	Concrete Fo	Backhoe	Diesel
5	Building - 10000 sqft- 1 story	Concrete Fo	Concrete Ready Mix Trucks	Diesel
5	Building - 10000 sqft- 1 story	Concrete Fo	Fork Truck	Diesel
5	Building - 10000 sqft- 1 story	Concrete Fo	Tool Truck	Diesel
5	Building - 10000 sqft- 1 story	Concrete Fo	Tractor Trailer- Material Delivery	Diesel
5	Building - 10000 sqft- 1 story	Constructior	Survey Crew Trucks	Diesel
5	Building - 10000 sqft- 1 story	Constructior	Tractor Trailers Temp Fac.	Diesel
5	Building - 10000 sqft- 1 story	Exterior Wal	Fork Truck	Diesel
5	Building - 10000 sqft- 1 story	Exterior Wal	Man Lift	Diesel
5	Building - 10000 sqft- 1 story	Exterior Wal	Tool Truck	Diesel
5	Building - 10000 sqft- 1 story	Exterior Wal	Tractor Trailer- Material Delivery	Diesel
5	Building - 10000 sqft- 1 story	Interior Buil	Fork Truck	Diesel
5	Building - 10000 sqft- 1 story	Interior Buil	Man Lift	Diesel
5	Building - 10000 sqft- 1 story	Interior Buil	Tool Truck	Diesel
5	Building - 10000 sqft- 1 story	Interior Buil	Tractor Trailer- Material Delivery	Diesel
5	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel
5	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel
5	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel
5	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel
5	Building - 10000 sqft- 1 story	Security & S	High Lift	Diesel
5	Building - 10000 sqft- 1 story	Security & S	Tool Truck	Diesel
5	Building - 10000 sqft- 1 story	Structural St	40 Ton Crane	Diesel
5	Building - 10000 sqft- 1 story	Structural St	Fork Truck	Diesel
5	Building - 10000 sqft- 1 story	Structural St	Tool Truck	Diesel
5	Building - 10000 sqft- 1 story	Structural St	Tractor Trailer- Steel Deliveries	Diesel

*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***

Overall Size

Sce	Project	Project Size	User Input	Unit
1	Building - 10000 sqft- 1 story	What is the	5.293	$ Million(s)
2	Parking Structure - 240000 sqft- G+2 sto	What is the	76.007	$ Million(s)
3	Building - 100000 sqft- 10 stories	What is the	62.294	$ Million(s)
4	Access Road	What is the	24.406	$ Million(s)
4	Access Road	What is the	1115	Feet
4	Access Road	What is the	40	Feet
5	Building - 10000 sqft- 1 story	What is the	54.541	$ Million(s)

Size Detail (Estimated based on engineering experience)

Sce	Project	Constructior	Default Activity Size	Unit	User Activity Size		
4	Access Road	Asphalt Plac	4950.6	Square Yards		1.02	0.05406
4	Access Road	Clearing anc	1.3	Acres			
4	Access Road	Concrete Pla	2062.8	Cubic Yards			
4	Access Road	Curbing	2230	Linear Feet			
4	Access Road	Drainage - 2	1125	Linear Feet			
4	Access Road	Drainage - 6	2250	Linear Feet			
4	Access Road	Dust Control	360	Days			
4	Access Road	Excavation (	2062.8	Cubic Yards			
4	Access Road	Excavation (	2062.8	Cubic Yards			
4	Access Road	Excavation (	4950.6	Square Yards			
4	Access Road	Fencing	1115	Linear Feet			
4	Access Road	Grading	6243.8	Square Yards			
4	Access Road	Hydroseedir	56250	Square Feet			
4	Access Road	Markings	44600	Square Feet			
4	Access Road	Sidewalks	6690	Square Feet			
4	Access Road	Soil Erosion/	1.3	Acres			
4	Access Road	Street Lighti	11.2	Lights			
4	Access Road	Subbase Pla	4950.6	Square Yards			
4	Access Road	Subbase Pla	1650.2	Cubic Yards			
4	Access Road	Topsoil Plac	1040.6	Cubic Yards			
4	Access Road	Tree Plantin	0	Trees			

Activity: Non-Road (Estimated based on engineering experience)

Sce	Project	Constructior	Equipment	Fuel Type	Activity Size	Activity Rate	Default Activity	Activity Uni	User Activity Data
1	Building - 10000 sqft- 1 story	Concrete Fo	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Concrete Fo	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Concrete Fo	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Concrete Fo	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
1	Building - 10000 sqft- 1 story	Concrete Fo	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
1	Building - 10000 sqft- 1 story	Constructior	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours	
1	Building - 10000 sqft- 1 story	Constructior	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours	
1	Building - 10000 sqft- 1 story	Exterior Wal	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Exterior Wal	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Exterior Wal	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Exterior Wal	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours	
1	Building - 10000 sqft- 1 story	Interior Buil	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
1	Building - 10000 sqft- 1 story	Interior Buil	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
1	Building - 10000 sqft- 1 story	Interior Buil	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Interior Buil	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours	
1	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours	
1	Building - 10000 sqft- 1 story	Security & S	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
1	Building - 10000 sqft- 1 story	Security & S	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
1	Building - 10000 sqft- 1 story	Structural St	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
1	Building - 10000 sqft- 1 story	Structural St	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
1	Building - 10000 sqft- 1 story	Structural St	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
1	Building - 10000 sqft- 1 story	Structural St	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Asphalt Pav	Asphalt Paver	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Asphalt Pav	Front Loader for Subgrade Materials	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Asphalt Pav	Ten Wheelers- Material Delivery	Diesel	240000.00 SF	0.00025 Hours per 1.00 SF	60	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	40 Ton Rough Terrain Crane	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Backhoe	Diesel	240000.00 SF	0.00167 Hours per 1.00 SF	400.8	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Caisson Drilling Rig	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Concrete Pump	Diesel	240000.00 SF	0.000375 Hours per 1.00 SF	90	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Concrete Ready Mix Trucks	Diesel	240000.00 SF	0.00125 Hours per 1.00 SF	300	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Excavator	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Fork Truck	Diesel	240000.00 SF	0.00167 Hours per 1.00 SF	400.8	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Front Loader	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Tool Truck	Diesel	240000.00 SF	0.00042 Hours per 1.00 SF	100.8	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Tractor Trailer- Material Delivery	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Tractor Trailer- Stone Delivery	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Fo	Trencher for U/G Piping	Diesel	240000.00 SF	0.00083 Hours per 1.00 SF	199.2	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	90 Ton Crane	Diesel	240000.00 SF	0.002 Hours per 1.00 SF	480	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	Concrete Boom Pump	Diesel	240000.00 SF	0.0015 Hours per 1.00 SF	360	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	Concrete Ready Mix Trucks	Diesel	240000.00 SF	0.0015 Hours per 1.00 SF	360	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	Tractor Trailer- Steel Deliveries	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Concrete Po	Trowel Machines (4) machines	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Constructior	Survey Crew Trucks	Diesel	240000.00 SF	0.00004 Hours per 1.00 SF	9.6	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Constructior	Tractor Trailers Temp Fac.	Diesel	240000.00 SF	0.00002 Hours per 1.00 SF	4.8	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Lights and P	Forklift	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
2	Parking Structure - 240000 sqft- G+2 sto	Lights and P	High Lift	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	

2	Parking Structure - 240000 sqft- G+2 st	Lights and P	Tool Truck	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
2	Parking Structure - 240000 sqft- G+2 st	Lights and P	Trencher	Diesel	240000.00 SF	0.0005 Hours per 1.00 SF	120	hours	
2	Parking Structure - 240000 sqft- G+2 st	Precast Con	40 Ton Rough Terrain	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
2	Parking Structure - 240000 sqft- G+2 st	Precast Con	Fork Truck	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
2	Parking Structure - 240000 sqft- G+2 st	Precast Con	Tractor Trailer- Material Delivery	Diesel	240000.00 SF	0.001 Hours per 1.00 SF	240	hours	
2	Parking Structure - 240000 sqft- G+2 st	Security & S	High Lift	Diesel	240000.00 SF	0.00067 Hours per 1.00 SF	160.8	hours	
2	Parking Structure - 240000 sqft- G+2 st	Security & S	Tool Truck	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
2	Parking Structure - 240000 sqft- G+2 st	Site Prep/La	Front Loader	Diesel	240000.00 SF	0.00033 Hours per 1.00 SF	79.2	hours	
2	Parking Structure - 240000 sqft- G+2 st	Site Prep/La	Tractor Trailer with Boom Hoist- Curbs De	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
2	Parking Structure - 240000 sqft- G+2 st	Site Prep/La	Truck for Topsoil & Seed Del&Spread	Diesel	240000.00 SF	0.00017 Hours per 1.00 SF	40.8	hours	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Backhoe	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Concrete Pump	Diesel	100000.00 SF	0.0018 Hours per 1.00 SF	180	hours	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Concrete Ready Mix Trucks	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Excavator	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Fork Truck	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Tool Truck	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours	
3	Building - 100000 sqft- 10 stories	Constructior	Survey Crew Trucks	Diesel	100000.00 SF	0.0001 Hours per 1.00 SF	10	hours	
3	Building - 100000 sqft- 10 stories	Constructior	Tractor Trailers Temp Fac.	Diesel	100000.00 SF	0.00004 Hours per 1.00 SF	4	hours	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Fork Truck	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Generator	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Grout Mixer	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Grout Wheel Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Man Lift	Diesel	100000.00 SF	0.0168 Hours per 1.00 SF	1680	hours	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Tool Truck	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours	
3	Building - 100000 sqft- 10 stories	Interior Buil	Fork Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
3	Building - 100000 sqft- 10 stories	Interior Buil	Man Lift	Diesel	100000.00 SF	0.032 Hours per 1.00 SF	3200	hours	
3	Building - 100000 sqft- 10 stories	Interior Buil	Tool Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
3	Building - 100000 sqft- 10 stories	Interior Buil	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours	
3	Building - 100000 sqft- 10 stories	Roofing	High Lift	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
3	Building - 100000 sqft- 10 stories	Roofing	Man Lift	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
3	Building - 100000 sqft- 10 stories	Roofing	Material Deliveries	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
3	Building - 100000 sqft- 10 stories	Roofing	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
3	Building - 100000 sqft- 10 stories	Roofing	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours	
3	Building - 100000 sqft- 10 stories	Security & S	High Lift	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours	
3	Building - 100000 sqft- 10 stories	Security & S	Tool Truck	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours	
3	Building - 100000 sqft- 10 stories	Structural St	90 Ton Crane	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours	
3	Building - 100000 sqft- 10 stories	Structural St	Concrete Pump	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
3	Building - 100000 sqft- 10 stories	Structural St	Concrete Truck	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours	
3	Building - 100000 sqft- 10 stories	Structural St	Fork Truck	Diesel	100000.00 SF	0.0064 Hours per 1.00 SF	640	hours	
3	Building - 100000 sqft- 10 stories	Structural St	Tool Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours	
3	Building - 100000 sqft- 10 stories	Structural St	Tractor Trailer- Steel Deliveries	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours	
3	Building - 100000 sqft- 10 stories	Structural St	Trowel Machine	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours	
3	Building - 100000 sqft- 10 stories	Structural St	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0072 Hours per 1.00 SF	720	hours	
4	Access Road	Asphalt Plac	Asphalt Paver	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
4	Access Road	Asphalt Plac	Dump Truck	Diesel	4950.60 SY	8 Hours per 1777.00 SY	22.29	hours	
4	Access Road	Asphalt Plac	Other General Equipment	Diesel	4950.60 SY	16 Hours per 6400.00 SY	12.38	hours	
4	Access Road	Asphalt Plac	Pickup Truck	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
4	Access Road	Asphalt Plac	Roller	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
4	Access Road	Asphalt Plac	Skid Steer Loader	Diesel	4950.60 SY	8 Hours per 6400.00 SY	6.19	hours	
4	Access Road	Asphalt Plac	Surfacing Equipment (Grooving)	Diesel	4950.60 SY	8 Hours per 5000.00 SY	7.92	hours	
4	Access Road	Clearing anc	Chain Saw	Diesel	1.30 Acre	12 Hours per 1.00 Acre	15.6	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
4	Access Road	Clearing anc	Chipper/Stump Grinder	Diesel	1.30 Acre	12 Hours per 1.00 Acre	15.6	hours	
4	Access Road	Clearing anc	Pickup Truck	Diesel	1.30 Acre	16 Hours per 1.00 Acre	20.8	hours	
4	Access Road	Concrete Pl	Air Compressor	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
4	Access Road	Concrete Pl	Concrete Saws	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
4	Access Road	Concrete Pl	Concrete Truck	Diesel	2062.80 CY	8 Hours per 240.00 CY	68.76	hours	
4	Access Road	Concrete Pl	Other General Equipment	Diesel	2062.80 CY	16 Hours per 1000.00 CY	33	hours	
4	Access Road	Concrete Pl	Pickup Truck	Diesel	2062.80 CY	24 Hours per 1000.00 CY	49.51	hours	
4	Access Road	Concrete Pl	Rubber Tired Loader	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
4	Access Road	Concrete Pl	Slip Form Paver	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
4	Access Road	Concrete Pl	Surfacing Equipment (Grooving)	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
4	Access Road	Curbing	Concrete Truck	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
4	Access Road	Curbing	Curb/Gutter Paver	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
4	Access Road	Curbing	Other General Equipment	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
4	Access Road	Curbing	Pickup Truck	Diesel	2230.00 LF	8 Hours per 400.00 LF	44.6	hours	
4	Access Road	Drainage - 2	Dozer	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
4	Access Road	Drainage - 2	Dump Truck	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
4	Access Road	Drainage - 2	Excavator	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
4	Access Road	Drainage - 2	Loader	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
4	Access Road	Drainage - 2	Other General Equipment	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
4	Access Road	Drainage - 2	Pickup Truck	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
4	Access Road	Drainage - 2	Roller	Diesel	1125.00 LF	8 Hours per 250.00 LF	36	hours	
4	Access Road	Drainage - 6	Dump Truck	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
4	Access Road	Drainage - 6	Loader	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
4	Access Road	Drainage - 6	Other General Equipment	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
4	Access Road	Drainage - 6	Pickup Truck	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
4	Access Road	Drainage - 6	Tractors/Loader/Backhoe	Diesel	2250.00 LF	8 Hours per 900.00 LF	20	hours	
4	Access Road	Dust Control	Water Truck	Diesel	360.00 Day	8 Hours per 1.00 Day	2880	hours	
4	Access Road	Excavation (	Dozer	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
4	Access Road	Excavation (	Dump Truck (12 cy)	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
4	Access Road	Excavation (	Pickup Truck	Diesel	2062.80 CY	8 Hours per 600.00 CY	27.5	hours	
4	Access Road	Excavation (	Roller	Diesel	2062.80 CY	8 Hours per 1300.00 CY	12.69	hours	
4	Access Road	Excavation (	Dozer	Diesel	2062.80 CY	8 Hours per 800.00 CY	20.63	hours	
4	Access Road	Excavation (	Dump Truck (12 cy)	Diesel	2062.80 CY	8 Hours per 300.00 CY	55.01	hours	
4	Access Road	Excavation (	Excavator	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
4	Access Road	Excavation (	Pickup Truck	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
4	Access Road	Excavation (	Roller	Diesel	2062.80 CY	8 Hours per 1000.00 CY	16.5	hours	
4	Access Road	Excavation (	Scraper	Diesel	2062.80 CY	8 Hours per 800.00 CY	20.63	hours	
4	Access Road	Excavation (	Dozer	Diesel	4950.60 SY	8 Hours per 5100.00 SY	7.77	hours	
4	Access Road	Fencing	Concrete Truck	Diesel	1115.00 LF	2 Hours per 180.00 LF	12.39	hours	
4	Access Road	Fencing	Dump Truck	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
4	Access Road	Fencing	Other General Equipment	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
4	Access Road	Fencing	Pickup Truck	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
4	Access Road	Fencing	Skid Steer Loader	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
4	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	1115.00 LF	8 Hours per 180.00 LF	49.56	hours	
4	Access Road	Grading	Dozer	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
4	Access Road	Grading	Grader	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
4	Access Road	Grading	Roller	Diesel	6243.80 SY	8 Hours per 8000.00 SY	6.24	hours	
4	Access Road	Hydroseedir	Hydroseeder	Diesel	56250.00 SF	8 Hours per 80000.00 SF	5.63	hours	
4	Access Road	Hydroseedir	Off-Road Truck	Diesel	56250.00 SF	8 Hours per 80000.00 SF	5.63	hours	
4	Access Road	Markings	Flatbed Truck	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
4	Access Road	Markings	Other General Equipment	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
4	Access Road	Markings	Pickup Truck	Diesel	44600.00 SF	8 Hours per 3500.00 SF	101.94	hours	
4	Access Road	Sidewalks	Concrete Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
4	Access Road	Sidewalks	Dump Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
4	Access Road	Sidewalks	Pickup Truck	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
4	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
4	Access Road	Sidewalks	Vibratory Compactor	Diesel	6690.00 SF	8 Hours per 600.00 SF	89.2	hours	
4	Access Road	Soil Erosion	Other General Equipment	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
4	Access Road	Soil Erosion	Pickup Truck	Diesel	1.30 Acre	8 Hours per 1.00 Acre	10.4	hours	
4	Access Road	Soil Erosion	Pumps	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
4	Access Road	Soil Erosion	Tractors/Loader/Backhoe	Diesel	1.30 Acre	4 Hours per 1.00 Acre	5.2	hours	
4	Access Road	Street Lighti	Dump Truck	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
4	Access Road	Street Lighti	Loader	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
4	Access Road	Street Lighti	Other General Equipment	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
4	Access Road	Street Lighti	Pickup Truck	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
4	Access Road	Street Lighti	Skid Steer Loader	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
4	Access Road	Street Lighti	Tractors/Loader/Backhoe	Diesel	11.20 Lights	8 Hours per 3.00 Lights	29.87	hours	
4	Access Road	Subbase Pla	Dozer	Diesel	4950.60 SY	8 Hours per 3800.00 SY	10.42	hours	
4	Access Road	Subbase Pla	Dump Truck (12 cy)	Diesel	1650.20 CY	8 Hours per 180.00 CY	73.34	hours	
4	Access Road	Subbase Pla	Pickup Truck	Diesel	4950.60 SY	8 Hours per 3800.00 SY	10.42	hours	
4	Access Road	Subbase Pla	Roller	Diesel	1650.20 CY	8 Hours per 1300.00 CY	10.16	hours	
4	Access Road	Topsoil Plac	Dozer	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
4	Access Road	Topsoil Plac	Dump Truck	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
4	Access Road	Topsoil Plac	Pickup Truck	Diesel	1040.60 CY	8 Hours per 600.00 CY	13.87	hours	
4	Access Road	Tree Plantin	Flatbed Truck	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
4	Access Road	Tree Plantin	Other General Equipment	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
4	Access Road	Tree Plantin	Pickup Truck	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
4	Access Road	Tree Plantin	Tractors/Loader/Backhoe	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours	
5	Building - 10000 sqft- 1 story	Concrete Fo	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
5	Building - 10000 sqft- 1 story	Concrete Fo	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
5	Building - 10000 sqft- 1 story	Concrete Fo	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
5	Building - 10000 sqft- 1 story	Concrete Fo	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
5	Building - 10000 sqft- 1 story	Concrete Fo	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	
5	Building - 10000 sqft- 1 story	Constructior	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours	
5	Building - 10000 sqft- 1 story	Constructior	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours	
5	Building - 10000 sqft- 1 story	Exterior Wal	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
5	Building - 10000 sqft- 1 story	Exterior Wal	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
5	Building - 10000 sqft- 1 story	Exterior Wal	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
5	Building - 10000 sqft- 1 story	Exterior Wal	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours	
5	Building - 10000 sqft- 1 story	Interior Buil	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
5	Building - 10000 sqft- 1 story	Interior Buil	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours	
5	Building - 10000 sqft- 1 story	Interior Buil	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
5	Building - 10000 sqft- 1 story	Interior Buil	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
5	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
5	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
5	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours	
5	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours	
5	Building - 10000 sqft- 1 story	Security & S	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours	
5	Building - 10000 sqft- 1 story	Security & S	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours	
5	Building - 10000 sqft- 1 story	Structural St	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours	
5	Building - 10000 sqft- 1 story	Structural St	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours	
5	Building - 10000 sqft- 1 story	Structural St	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours	
5	Building - 10000 sqft- 1 story	Structural St	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours	

Activity: On-Road (Estimated based on engineering experience)

Scei	Project	Equipment	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Number of Employees Or	$M*11 (Wl	Number of	Project Lengtl	Project Width	Project Area	Building Hei	Open Space	Number of T	Activity Size	Activity Rate	Default VMT	User VMT
1	Building - 10000 sqft- 1 story	Cement Mix	Material Delivery	Diesel	Urban Unrestricted Access	40	--		86	--	--	10000	--	--	--	--	--	2313	
1	Building - 10000 sqft- 1 story	Dump Truck	Material Delivery	Diesel	Urban Unrestricted Access	40	--		86	--	--	10000	--	--	--	--	--	1233	
1	Building - 10000 sqft- 1 story	Passenger C	Employee Commute	Gasoline	Urban Unrestricted Access	30		58.223	86	--	--	--	--	--	--	--	--	150215	
1	Building - 10000 sqft- 1 story	Tractor Trail	Material Delivery	Diesel	Urban Unrestricted Access	40	--		86	--	--	10000	--	--	--	--	0.0016	160	
2	Parking Structure - 240000 sqft- G+2 st	Cement Mix	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	240000	--	--	--	--	--	55500	
2	Parking Structure - 240000 sqft- G+2 st	Dump Truck	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	240000	--	--	--	--	--	29600	
2	Parking Structure - 240000 sqft- G+2 st	Passenger C	Employee Commute	Gasoline	Urban Unrestricted Access	30		836.077	258	--	--	--	--	--	--	--	--	6471236	
2	Parking Structure - 240000 sqft- G+2 st	Tractor Trail	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	240000	--	--	--	--	0.00083	1992	
3	Building - 100000 sqft- 10 stories	Cement Mix	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	100000	--	--	--	--	--	23125	
3	Building - 100000 sqft- 10 stories	Dump Truck	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	100000	--	--	--	--	--	12333	
3	Building - 100000 sqft- 10 stories	Passenger C	Employee Commute	Gasoline	Urban Unrestricted Access	30		685.234	258	--	--	--	--	--	--	--	--	5303711	
3	Building - 100000 sqft- 10 stories	Tractor Trail	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	100000	--	--	--	--	0.0024	2400	
4	Access Road	Asphalt 18 \	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	1115	40	--	--	--	--	--	--	647	
4	Access Road	Cement Mix	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	1115	40	--	--	--	--	--	--	10314	
4	Access Road	Dump Truck	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	1115	40	--	--	--	--	--	--	917	
4	Access Road	Dump Truck	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	1115	40	--	--	--	--	--	--	5501	
4	Access Road	Passenger C	Employee Commute	Gasoline	Urban Unrestricted Access	30		268.466	258	--	--	--	--	--	--	--	--	2077927	
5	Building - 10000 sqft- 1 story	Cement Mix	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	10000	--	--	--	--	--	2313	
5	Building - 10000 sqft- 1 story	Dump Truck	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	10000	--	--	--	--	--	1233	
5	Building - 10000 sqft- 1 story	Passenger C	Employee Commute	Gasoline	Urban Unrestricted Access	30		599.951	258	--	--	--	--	--	--	--	--	4643621	
5	Building - 10000 sqft- 1 story	Tractor Trail	Material Delivery	Diesel	Urban Unrestricted Access	40	--		258	--	--	10000	--	--	--	--	0.0016	160	

Emission Factor: Non-Road (from NONROAD)

Scei	Project	Constructior	Equipment	Fuel Type	Avg Rated HP	Load Factor	CO (g/hp-hr)	NOx (g/hp-	CO2 (g/hp-hr	SO2 (g/hp-hr)	PM10 (g/hp-hr)	PM2.5 (g/h	VOC Exhaus	VOC Evaporative (g/equipment-day)	
1	Building - 10000 sqft- 1 story	Concrete Fo	Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
1	Building - 10000 sqft- 1 story	Concrete Fo	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Concrete Fo	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
1	Building - 10000 sqft- 1 story	Concrete Fo	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Concrete Fo	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Constructior	Survey Crew Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Constructior	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Exterior Wal	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
1	Building - 10000 sqft- 1 story	Exterior Wal	Man Lift	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
1	Building - 10000 sqft- 1 story	Exterior Wal	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Exterior Wal	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Interior Buil	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
1	Building - 10000 sqft- 1 story	Interior Buil	Man Lift	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
1	Building - 10000 sqft- 1 story	Interior Buil	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Interior Buil	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
1	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
1	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Security & S	High Lift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
1	Building - 10000 sqft- 1 story	Security & S	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Structural St	40 Ton Crane	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
1	Building - 10000 sqft- 1 story	Structural St	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
1	Building - 10000 sqft- 1 story	Structural St	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
1	Building - 10000 sqft- 1 story	Structural St	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Asphalt Pav	Asphalt Paver	Diesel	175	0.59	0.146294024	0.298299	536.408665	0.00259236	0.011757353	0.0108168	0.1392601	0.0030546	
2	Parking Structure - 240000 sqft- G+2 st	Asphalt Pav	Front Loader for Subgrade Materials	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
2	Parking Structure - 240000 sqft- G+2 st	Asphalt Pav	Ten Wheelers- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	40 Ton Rough Terrain Crane	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Caisson Drilling Rig	Diesel	175	0.43	0.34323328	1.1967	530.501842	0.0027882	0.075023644	0.0690218	0.1785086	0.119975	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Concrete Pump	Diesel	11	0.43	4.447889257	4.328872	588.582093	0.0039677	0.35164742	0.3235156	0.5897839	0.0009063	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Excavator	Diesel	175	0.59	0.141901912	0.281358	536.409022	0.00258869	0.010424857	0.0095909	0.1391308	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Front Loader	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Tractor Trailer- Stone Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Fo	Trencher for U/G Piping	Diesel	75	0.59	0.503972224	3.031703	595.720114	0.00292454	0.03537741	0.0325472	0.1441495	0.0066544	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Po	90 Ton Crane	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Po	Concrete Boom Pump	Diesel	11	0.43	4.447889257	4.328872	588.582093	0.0039677	0.35164742	0.3235156	0.5897839	0.0009063	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Po	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Po	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Concrete Po	Trowel Machines (4) machines	Diesel	600	0.59	0.323868465	0.7647	536.384097	0.00271013	0.041372091	0.0380623	0.1473608	0.2538141	
2	Parking Structure - 240000 sqft- G+2 st	Constructior	Survey Crew Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Constructior	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Lights and P	Forklift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
2	Parking Structure - 240000 sqft- G+2 st	Lights and P	High Lift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
2	Parking Structure - 240000 sqft- G+2 st	Lights and P	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Lights and P	Trencher	Diesel	75	0.59	0.503972224	3.031703	595.720114	0.00292454	0.03537741	0.0325472	0.1441495	0.0066544	
2	Parking Structure - 240000 sqft- G+2 st	Precast Con	40 Ton Rough Terrain	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
2	Parking Structure - 240000 sqft- G+2 st	Precast Con	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
2	Parking Structure - 240000 sqft- G+2 st	Precast Con	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Security & S	High Lift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
2	Parking Structure - 240000 sqft- G+2 st	Security & S	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Site Prep/La	Front Loader	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
2	Parking Structure - 240000 sqft- G+2 st	Site Prep/La	Tractor Trailer with Boom Hoist- Curbs De	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
2	Parking Structure - 240000 sqft- G+2 st	Site Prep/La	Truck for Topsoil & Seed Del&Spread	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Concrete Pump	Diesel	11	0.43	4.447889257	4.328872	588.582093	0.0039677	0.35164742	0.3235156	0.5897839	0.0009063	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Excavator	Diesel	175	0.59	0.141901912	0.281358	536.409022	0.00258869	0.010424857	0.0095909	0.1391308	0	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Concrete Fo	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Constructior	Survey Crew Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Constructior	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Generator	Diesel	40	0.43	0.357907584	3.220845	589.868699	0.00297381	0.060135793	0.0553249	0.1650786	0.005078	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Grout Mixer	Diesel	600	0.59	0.323868465	0.7647	536.384097	0.00271013	0.041372091	0.0380623	0.1473608	0.2538141	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Grout Wheel Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Man Lift	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Exterior Wal	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
3	Building - 100000 sqft- 10 stories	Interior Buil	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
3	Building - 100000 sqft- 10 stories	Interior Buil	Man Lift	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
3	Building - 100000 sqft- 10 stories	Interior Buil	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Interior Buil	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Roofing	High Lift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
3	Building - 100000 sqft- 10 stories	Roofing	Man Lift	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
3	Building - 100000 sqft- 10 stories	Roofing	Material Deliveries	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Roofing	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
3	Building - 100000 sqft- 10 stories	Security & S	High Lift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
3	Building - 100000 sqft- 10 stories	Security & S	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Structural St	90 Ton Crane	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
3	Building - 100000 sqft- 10 stories	Structural St	Concrete Pump	Diesel	11	0.43	4.447889257	4.328872	588.582093	0.0039677	0.35164742	0.3235156	0.5897839	0.0009063	
3	Building - 100000 sqft- 10 stories	Structural St	Concrete Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Structural St	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
3	Building - 100000 sqft- 10 stories	Structural St	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Structural St	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
3	Building - 100000 sqft- 10 stories	Structural St	Trowel Machine	Diesel	600	0.59	0.323868465	0.7647	536.384097	0.00271013	0.041372091	0.0380623	0.1473608	0.2538141	
3	Building - 100000 sqft- 10 stories	Structural St	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
4	Access Road	Asphalt Plac	Asphalt Paver	Diesel	175	0.59	0.146294024	0.298299	536.408665	0.00259236	0.011757353	0.0108168	0.1392601	0.0030546	
4	Access Road	Asphalt Plac	Dump Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Asphalt Plac	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Asphalt Plac	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Asphalt Plac	Roller	Diesel	100	0.59	0.420110819	0.318136	595.733916	0.00288387	0.014969371	0.0137718	0.1395958	0.0040376	
4	Access Road	Asphalt Plac	Skid Steer Loader	Diesel	75	0.21	1.993549794	3.524361	694.938411	0.00373784	0.232818697	0.2141932	0.349968	0.1429068	
4	Access Road	Asphalt Plac	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355433314	4.461279	594.730481	0.00400921	0.354106704	0.3257782	0.4708153	0	
4	Access Road	Clearing anc	Chain Saw	Diesel	11	0.7	293.5350004	1.322993	685.996402	0.14019156	9.74818929	8.9683341	61.888355	25.002037	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
4	Access Road	Clearing anc	Chipper/Stump Grinder	Diesel	100	0.43	0.784123624	1.226459	589.777749	0.00308162	0.108971702	0.100254	0.1951035	0.1255502	
4	Access Road	Clearing anc	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Concrete Pl	Air Compressor	Diesel	100	0.43	0.337599254	0.418235	589.934887	0.00288334	0.023324678	0.0214587	0.1432324	0.014069	
4	Access Road	Concrete Pl	Concrete Saws	Diesel	40	0.59	0.250999986	3.014509	595.735298	0.00287509	0.02209274	0.0203253	0.1391247	0	
4	Access Road	Concrete Pl	Concrete Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Concrete Pl	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Concrete Pl	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Concrete Pl	Rubber Tired Loader	Diesel	175	0.59	0.151929743	0.311189	536.40785	0.0025966	0.01342232	0.0123485	0.1395264	0.0062265	
4	Access Road	Concrete Pl	Slip Form Paver	Diesel	175	0.59	0.146294024	0.298299	536.408665	0.00259236	0.011757353	0.0108168	0.1392601	0.0030546	
4	Access Road	Concrete Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355433314	4.461279	594.730481	0.00400921	0.354106704	0.3257782	0.4708153	0	
4	Access Road	Curbing	Concrete Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Curbing	Curb/Gutter Paver	Diesel	175	0.59	0.146294024	0.298299	536.408665	0.00259236	0.011757353	0.0108168	0.1392601	0.0030546	
4	Access Road	Curbing	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Curbing	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Drainage - 2	Dozer	Diesel	175	0.59	0.141594178	0.285348	536.409171	0.00258869	0.010356635	0.0095281	0.1390729	0	
4	Access Road	Drainage - 2	Dump Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Drainage - 2	Excavator	Diesel	175	0.59	0.141901912	0.281358	536.409022	0.00258869	0.010424857	0.0095909	0.1391308	0	
4	Access Road	Drainage - 2	Loader	Diesel	175	0.59	0.151929743	0.311189	536.40785	0.0025966	0.01342232	0.0123485	0.1395264	0.0062265	
4	Access Road	Drainage - 2	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Drainage - 2	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Drainage - 2	Roller	Diesel	100	0.59	0.420110819	0.318136	595.733916	0.00288387	0.014969371	0.0137718	0.1395958	0.0040376	
4	Access Road	Drainage - 6	Dump Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Drainage - 6	Loader	Diesel	175	0.59	0.151929743	0.311189	536.40785	0.0025966	0.01342232	0.0123485	0.1395264	0.0062265	
4	Access Road	Drainage - 6	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Drainage - 6	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Drainage - 6	Tractors/Loader/Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
4	Access Road	Dust Control	Water Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Excavation (	Dozer	Diesel	175	0.59	0.141594178	0.285348	536.409171	0.00258869	0.010356635	0.0095281	0.1390729	0	
4	Access Road	Excavation (	Dump Truck (12 cy)	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Excavation (	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Excavation (	Roller	Diesel	100	0.59	0.420110819	0.318136	595.733916	0.00288387	0.014969371	0.0137718	0.1395958	0.0040376	
4	Access Road	Excavation (	Dozer	Diesel	175	0.59	0.141594178	0.285348	536.409171	0.00258869	0.010356635	0.0095281	0.1390729	0	
4	Access Road	Excavation (	Dump Truck (12 cy)	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Excavation (	Excavator	Diesel	175	0.59	0.141901912	0.281358	536.409022	0.00258869	0.010424857	0.0095909	0.1391308	0	
4	Access Road	Excavation (	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Excavation (	Roller	Diesel	100	0.59	0.420110819	0.318136	595.733916	0.00288387	0.014969371	0.0137718	0.1395958	0.0040376	
4	Access Road	Excavation (	Scraper	Diesel	600	0.59	0.170850156	0.370756	536.406558	0.00261154	0.015869855	0.0146003	0.1399396	0.0598426	
4	Access Road	Excavation (	Dozer	Diesel	175	0.59	0.141594178	0.285348	536.409171	0.00258869	0.010356635	0.0095281	0.1390729	0	
4	Access Road	Fencing	Concrete Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Fencing	Dump Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Fencing	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Fencing	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Fencing	Skid Steer Loader	Diesel	75	0.21	1.993549794	3.524361	694.938411	0.00373784	0.232818697	0.2141932	0.349968	0.1429068	
4	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
4	Access Road	Grading	Dozer	Diesel	175	0.59	0.141594178	0.285348	536.409171	0.00258869	0.010356635	0.0095281	0.1390729	0	
4	Access Road	Grading	Grader	Diesel	300	0.59	0.119888229	0.284176	536.409094	0.00258869	0.010377012	0.0095469	0.1390902	0	
4	Access Road	Grading	Roller	Diesel	100	0.59	0.420110819	0.318136	595.733916	0.00288387	0.014969371	0.0137718	0.1395958	0.0040376	
4	Access Road	Hydroseedir	Hydroseeder	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Hydroseedir	Off-Road Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Markings	Flatbed Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Markings	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Markings	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Sidewalks	Concrete Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Sidewalks	Dump Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Sidewalks	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
4	Access Road	Sidewalks	Vibratory Compactor	Diesel	6	0.43	4.460559736	4.32005	588.587153	0.00396774	0.350605343	0.3225569	0.5881229	0.000149	
4	Access Road	Soil Erosion	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Soil Erosion	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Soil Erosion	Pumps	Diesel	11	0.43	4.447889257	4.328872	588.582093	0.0039677	0.35164742	0.3235156	0.5897839	0.0009063	
4	Access Road	Soil Erosion	Tractors/Loader/Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
4	Access Road	Street Lighti	Dump Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Street Lighti	Loader	Diesel	175	0.59	0.151929743	0.311189	536.40785	0.0025966	0.01342232	0.0123485	0.1395264	0.0062265	
4	Access Road	Street Lighti	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Street Lighti	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Street Lighti	Skid Steer Loader	Diesel	75	0.21	1.993549794	3.524361	694.938411	0.00373784	0.232818697	0.2141932	0.349968	0.1429068	
4	Access Road	Street Lighti	Tractors/Loader/Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
4	Access Road	Subbase Pla	Dozer	Diesel	175	0.59	0.141594178	0.285348	536.409171	0.00258869	0.010356635	0.0095281	0.1390729	0	
4	Access Road	Subbase Pla	Dump Truck (12 cy)	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Subbase Pla	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Subbase Pla	Roller	Diesel	100	0.59	0.420110819	0.318136	595.733916	0.00288387	0.014969371	0.0137718	0.1395958	0.0040376	
4	Access Road	Topsoil Plac	Dozer	Diesel	175	0.59	0.141594178	0.285348	536.409171	0.00258869	0.010356635	0.0095281	0.1390729	0	
4	Access Road	Topsoil Plac	Dump Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Topsoil Plac	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Tree Plantin	Flatbed Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Tree Plantin	Other General Equipment	Diesel	175	0.43	0.117983928	0.359098	530.616192	0.00258388	0.016181293	0.0148868	0.1407436	0.0133092	
4	Access Road	Tree Plantin	Pickup Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
4	Access Road	Tree Plantin	Tractors/Loader/Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
5	Building - 10000 sqft- 1 story	Concrete Fo	Backhoe	Diesel	100	0.21	1.568843325	1.000355	695.272973	0.00354543	0.159713756	0.1469367	0.2395245	0.1600399	
5	Building - 10000 sqft- 1 story	Concrete Fo	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Concrete Fo	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
5	Building - 10000 sqft- 1 story	Concrete Fo	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Concrete Fo	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Constructior	Survey Crew Trucks	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Constructior	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Exterior Wal	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
5	Building - 10000 sqft- 1 story	Exterior Wal	Man Lift	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
5	Building - 10000 sqft- 1 story	Exterior Wal	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Exterior Wal	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Interior Buil	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
5	Building - 10000 sqft- 1 story	Interior Buil	Man Lift	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
5	Building - 10000 sqft- 1 story	Interior Buil	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Interior Buil	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
5	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	1.882522137	3.530985	694.972031	0.00373952	0.199454121	0.1834978	0.3388741	0.0571302	
5	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Security & S	High Lift	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
5	Building - 10000 sqft- 1 story	Security & S	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Structural St	40 Ton Crane	Diesel	300	0.43	0.081539987	0.316873	530.620232	0.00256793	0.011408059	0.0104954	0.1394035	0.0090738	
5	Building - 10000 sqft- 1 story	Structural St	Fork Truck	Diesel	100	0.59	0.395095724	0.281446	595.734826	0.00287509	0.010439667	0.0096045	0.1392761	0	
5	Building - 10000 sqft- 1 story	Structural St	Tool Truck	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	
5	Building - 10000 sqft- 1 story	Structural St	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141908942	0.281359	536.409006	0.00258869	0.010426418	0.0095923	0.1391321	0	

Emission Factors: On-Road (from MOVES)

Scei	Project Type	Equipment	Fuel Type	Roadway Type	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi)	PM2.5(g/mi)	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/ve	RV NOx(g/v	RV CO2(g/v	RV SO2(g/v	RV PM10(g/	RV PM2.5(g	RV VOC(g/v	RP VOC(g/veh-day)
1	Building - 10000 sqft- 1 story	Cement Mix	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
1	Building - 10000 sqft- 1 story	Dump Truck	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
1	Building - 10000 sqft- 1 story	Passenger C	Gasoline	Urban Unrestricted Access	2.035578803	0.083825373	347.1416172	0.004869	0.0042205	0.0038863	0.048741815	0.0047347	0.0016649	24.990606	1.406247	273.15354	0.0038316	0.031894	0.0293684	4.9718222	0.736971
1	Building - 10000 sqft- 1 story	Tractor Trail	Diesel	Urban Unrestricted Access	0.531097211	1.733032388	2511.512771	0.017244	0.05422544	0.0526005	0.107674695	0.0723297	0.0034639	22.517268	0.3936208	296.41263	0.0020773	0.0101324	0.0098289	6.6638455	0
2	Parking Structure - 240000 sqft- G+2 st	Cement Mix	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
2	Parking Structure - 240000 sqft- G+2 st	Dump Truck	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
2	Parking Structure - 240000 sqft- G+2 st	Passenger C	Gasoline	Urban Unrestricted Access	2.035578803	0.083825373	347.1416172	0.004869	0.0042205	0.0038863	0.048741815	0.0047347	0.0016649	24.990606	1.406247	273.15354	0.0038316	0.031894	0.0293684	4.9718222	0.736971
2	Parking Structure - 240000 sqft- G+2 st	Tractor Trail	Diesel	Urban Unrestricted Access	0.531097211	1.733032388	2511.512771	0.017244	0.05422544	0.0526005	0.107674695	0.0723297	0.0034639	22.517268	0.3936208	296.41263	0.0020773	0.0101324	0.0098289	6.6638455	0

3	Building - 100000 sqft- 10 stories	Cement Mix	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
3	Building - 100000 sqft- 10 stories	Dump Truck	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
3	Building - 100000 sqft- 10 stories	Passenger C	Gasoline	Urban Unrestricted Access	2.035578803	0.083825373	347.1416172	0.004869	0.0042205	0.0038863	0.048741815	0.0047347	0.0016649	24.990606	1.406247	273.15354	0.0038316	0.031894	0.0293684	4.9718222	0.736971
3	Building - 100000 sqft- 10 stories	Tractor Trail	Diesel	Urban Unrestricted Access	0.531097211	1.733032388	2511.512771	0.017244	0.05422544	0.0526005	0.107674695	0.0723297	0.0034639	22.517268	0.3936208	296.41263	0.0020773	0.0101324	0.0098289	6.6638455	0
4	Access Road	Asphalt 18 W	Diesel	Urban Unrestricted Access	0.531097211	1.733032388	2511.512771	0.017244	0.05422544	0.0526005	0.107674695	0.0723297	0.0034639	22.517268	0.3936208	296.41263	0.0020773	0.0101324	0.0098289	6.6638455	0
4	Access Road	Cement Mix	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
4	Access Road	Dump Truck	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0.736971
4	Access Road	Dump Truck	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
4	Access Road	Passenger C	Gasoline	Urban Unrestricted Access	2.035578803	0.083825373	347.1416172	0.004869	0.0042205	0.0038863	0.048741815	0.0047347	0.0016649	24.990606	1.406247	273.15354	0.0038316	0.031894	0.0293684	4.9718222	0
5	Building - 10000 sqft- 1 story	Cement Mix	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
5	Building - 10000 sqft- 1 story	Dump Truck	Diesel	Urban Unrestricted Access	0.44270436	0.991983839	1376.84565	0.009444	0.02216737	0.02150312	0.07932585	0.0713122	0.0034639	23.256652	0.1444061	281.99252	0.0019547	0.0051776	0.0050225	0.5847299	0
5	Building - 10000 sqft- 1 story	Passenger C	Gasoline	Urban Unrestricted Access	2.035578803	0.083825373	347.1416172	0.004869	0.0042205	0.0038863	0.048741815	0.0047347	0.0016649	24.990606	1.406247	273.15354	0.0038316	0.031894	0.0293684	4.9718222	0
5	Building - 10000 sqft- 1 story	Tractor Trail	Diesel	Urban Unrestricted Access	0.531097211	1.733032388	2511.512771	0.017244	0.05422544	0.0526005	0.107674695	0.0723297	0.0034639	22.517268	0.3936208	296.41263	0.0020773	0.0101324	0.0098289	6.6638455	0.736971

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scei	Project	Fugitive Ty	Variable	Default Values	Units	User Value		
1	Building - 10000 sqft- 1 story	Concrete Mi	V = Volume of asphalt = 0.111 x L x W x 1	462.5	yd3			
1	Building - 10000 sqft- 1 story	Concrete Mi	PM10 = 0.037 x V	17.1	lbs			
1	Building - 10000 sqft- 1 story	Material Mc	sL = Road surface silt loading	0.1	g/m3			
1	Building - 10000 sqft- 1 story	Material Mc	Wt. = Mean vehicle weight	32	tons			
1	Building - 10000 sqft- 1 story	Material Mc	VMT = Vehicle miles traveled	860	miles			
1	Building - 10000 sqft- 1 story	Material Mc	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x	7.983	lbs			
1	Building - 10000 sqft- 1 story	Material Mc	s = Surface material silt content	0.043	fraction			
1	Building - 10000 sqft- 1 story	Material Mc	Wt. = Mean vehicle weight	32	tons			
1	Building - 10000 sqft- 1 story	Material Mc	VMT = Vehicle miles traveled	860	miles			
1	Building - 10000 sqft- 1 story	Material Mc	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.4	23.6	lbs			
2	Parking Structure - 240000 sqft- G+2 stc	Asphalt Dryi	A = Area of land affected = L x W x 0.092 	22296	m2		5.51	0.29203
2	Parking Structure - 240000 sqft- G+2 stc	Asphalt Dryi	AR = Application rate of liquefied asphalt	1.811	l/m2			
2	Parking Structure - 240000 sqft- G+2 stc	Asphalt Dryi	VD = Volume fraction of diluent in liquefie	0.35	fraction			
2	Parking Structure - 240000 sqft- G+2 stc	Asphalt Dryi	EF = Mass fraction of diluent which evapc	0.7	fraction			
2	Parking Structure - 240000 sqft- G+2 stc	Asphalt Dryi	D = Density of solvent utilized	1.8	lbs/l			
2	Parking Structure - 240000 sqft- G+2 stc	Asphalt Dryi	VOC = A x AR x VD x EF x D	17806.7	lbs			
2	Parking Structure - 240000 sqft- G+2 stc	Material Mc	sL = Road surface silt loading	0.1	g/m3			
2	Parking Structure - 240000 sqft- G+2 stc	Material Mc	Wt. = Mean vehicle weight	32	tons			
2	Parking Structure - 240000 sqft- G+2 stc	Material Mc	VMT = Vehicle miles traveled	6450	miles			
2	Parking Structure - 240000 sqft- G+2 stc	Material Mc	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x	59.9	lbs			
2	Parking Structure - 240000 sqft- G+2 stc	Concrete Mi	V = Volume of asphalt = 0.111 x L x W x 1	11100	yd3			
2	Parking Structure - 240000 sqft- G+2 stc	Concrete Mi	PM10 = 0.037 x V	410.7	lbs			
2	Parking Structure - 240000 sqft- G+2 stc	Material Mc	s = Surface material silt content	0.043	fraction			
2	Parking Structure - 240000 sqft- G+2 stc	Material Mc	Wt. = Mean vehicle weight	32	tons			
2	Parking Structure - 240000 sqft- G+2 stc	Material Mc	VMT = Vehicle miles traveled	6550.5	miles			
2	Parking Structure - 240000 sqft- G+2 stc	Material Mc	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.4	179.4	lbs			
3	Building - 100000 sqft- 10 stories	Concrete Mi	V = Volume of asphalt = 0.111 x L x W x 1	4625	yd3			
3	Building - 100000 sqft- 10 stories	Concrete Mi	PM10 = 0.037 x V	171.1	lbs			
3	Building - 100000 sqft- 10 stories	Material Mc	sL = Road surface silt loading	0.1	g/m3			
3	Building - 100000 sqft- 10 stories	Material Mc	Wt. = Mean vehicle weight	32	tons			
3	Building - 100000 sqft- 10 stories	Material Mc	VMT = Vehicle miles traveled	3870	miles			
3	Building - 100000 sqft- 10 stories	Material Mc	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x	35.9	lbs			
3	Building - 100000 sqft- 10 stories	Material Mc	s = Surface material silt content	0.043	fraction			
3	Building - 100000 sqft- 10 stories	Material Mc	Wt. = Mean vehicle weight	32	tons			
3	Building - 100000 sqft- 10 stories	Material Mc	VMT = Vehicle miles traveled	3970	miles			
3	Building - 100000 sqft- 10 stories	Material Mc	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.4	108.7	lbs			
4	Access Road	Asphalt Dryi	A = Area of land affected = L x W x 0.092	4143.3	m2			
4	Access Road	Asphalt Dryi	AR = Application rate of liquefied asphalt	1.811	l/m2			
4	Access Road	Asphalt Dryi	VD = Volume fraction of diluent in liquefie	0.35	fraction			
4	Access Road	Asphalt Dryi	EF = Mass fraction of diluent which evapc	0.7	fraction			
4	Access Road	Asphalt Dryi	D = Density of solvent utilized	1.8	lbs/l			
4	Access Road	Asphalt Dryi	VOC = A x AR x VD x EF x D	3309.1	lbs			
4	Access Road	Asphalt Stor	T = Mass of asphalt loaded = L x W x 0.16	539	tons			
4	Access Road	Asphalt Stor	PM10 = (0.027 + 0.00042) x T	14.8	lbs			
4	Access Road	Asphalt Stor	CO = (0.4 + 0.0004) x T	215.8	lbs			
4	Access Road	Asphalt Stor	NOx = (0.025) x T	13.5	lbs			
4	Access Road	Asphalt Stor	SOx = (0.0046) x T	2.48	lbs			
4	Access Road	Asphalt Stor	VOC = (0.0082 + 0.0042) x T	6.684	lbs			
4	Access Road	Material Mc	s = Surface material silt content	0.043	fraction			
4	Access Road	Material Mc	Wt. = Mean vehicle weight	32	tons			
4	Access Road	Material Mc	VMT = Vehicle miles traveled	5394.7	miles			
4	Access Road	Material Mc	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.4	147.7	lbs			
4	Access Road	Material Mc	sL = Road surface silt loading	0.1	g/m3			
4	Access Road	Material Mc	Wt. = Mean vehicle weight	32	tons			
4	Access Road	Material Mc	VMT = Vehicle miles traveled	5160	miles			
4	Access Road	Material Mc	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x	47.9	lbs			
4	Access Road	Concrete Mi	V = Volume of asphalt = 0.111 x L x W x 1	2062.8	yd3			
4	Access Road	Concrete Mi	PM10 = 0.037 x V	76.3	lbs			
4	Access Road	Unstabilized	A = Area affected = L x W / 43560.0	1.024	acres			
4	Access Road	Unstabilized	TPConv = TSP/PM10 conversion	0.5	fraction			
4	Access Road	Unstabilized	CE = Control efficiency	0.63	fraction			
4	Access Road	Unstabilized	t = year (e.g. 0.65 year)	1	years			
4	Access Road	Unstabilized	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2(	0	lbs			
4	Access Road	Soil Handlin	u = Wind speed	5	mph			
4	Access Road	Soil Handlin	m = Moisture content	0.25	fraction			
4	Access Road	Soil Handlin	T = Mass of aggregate storage pile = L x V	1226.5	tons			
4	Access Road	Soil Handlin	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] /	25.2	lbs			
5	Building - 10000 sqft- 1 story	Concrete Mi	V = Volume of asphalt = 0.111 x L x W x 1	462.5	yd3			
5	Building - 10000 sqft- 1 story	Concrete Mi	PM10 = 0.037 x V	17.1	lbs			
5	Building - 10000 sqft- 1 story	Material Mc	sL = Road surface silt loading	0.1	g/m3			
5	Building - 10000 sqft- 1 story	Material Mc	Wt. = Mean vehicle weight	32	tons			
5	Building - 10000 sqft- 1 story	Material Mc	VMT = Vehicle miles traveled	2580	miles			
5	Building - 10000 sqft- 1 story	Material Mc	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x	23.9	lbs			
5	Building - 10000 sqft- 1 story	Material Mc	s = Surface material silt content	0.043	fraction			
5	Building - 10000 sqft- 1 story	Material Mc	Wt. = Mean vehicle weight	32	tons			
5	Building - 10000 sqft- 1 story	Material Mc	VMT = Vehicle miles traveled	2580	miles			
5	Building - 10000 sqft- 1 story	Material Mc	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.4	70.7	lbs			

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ASSUMPTIONS

Emission factors were developed from the following models:

- On-Road Vehicles: MOVES 2010b, revised January 2013
- Non-Road Equipment: NONROAD2008a, July 2009

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)
- Excavator
- Excavator for U/G Services/Tanks
- Flat Bed or Dump Trucks
- Flatbed Truck
- Grader
- Grout Wheel Truck
- Hoist Equipment with 40 Ton Rig
- Hydralic Hammer
- Hydroseeder
- Line Painting Truck and Sprayer
- Material Deliveries
- Off-Road Truck
- Pickup Truck
- Scraper
- Seed Truck Spreader
- Small Dozer
- Survey Crew Trucks
- Ten Wheelers
- Ten Wheelers- Material Delivery
- Tool Truck
- Tractor Trailer- Equipment Delivery
- Tractor Trailer- Material Delivery
- Tractor Trailer- Steel Deliveries
- Tractor Trailer- Stone Delivery
- Tractor Trailer- Topsoil & Seed
- Tractor Trailer- Truck Delivery
- Tractor Trailer with Boom Hoist- Curbs Del & Place
- Tractor Trailer with Boom Hoist- Delivery
- Tractor Trailers- Rebar Deliveries
- Tractor Trailers Temp Fac.
- Truck for Topsoil & Seed Del&Spread
- Water Truck
- Excavator with Bucket
- Excavator with Hoe Ram

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Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/18/2026 8:22:02 AM

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STUDY

Study Name

DFW Terminal SEA

Study Description

Construction 2031

2031 DFW CTA Supplemental EA Construction Emissions

Non-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO_2, CH_4, and N_2O) Emission: Metric Ton

											MOVES NONRAD Emission Factors (g/hp-hr)						MOVES5 Nonroad Emissions (Tons Per Year)					
Scenario ID	Year	Project	Construction Activity	Equipment	MOVES Equipment	MOVES5 Lookup	Fuel	HP Average	Load Factor	Hours of Activity	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2031	Parking Structure - 160000 sqft- G+1 story	Asphalt Pavement-Ground Floor	Asphalt Paver	Pavers	Pavers175	Diesel	175	0.59	80	0.41893	1.10442	0.00152	0.07282	0.07063	0.08131	0.00381	0.01006	0.00001	0.00066	0.00064	0.00074
1	2031	Parking Structure - 160000 sqft- G+1 story	Asphalt Pavement-Ground Floor	Front Loader for Subgrade Materials	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	80	0.49164	1.01939	0.00200	0.07411	0.07189	0.07181	0.00091	0.00189	0.00000	0.00014	0.00013	0.00013
1	2031	Parking Structure - 160000 sqft- G+1 story	Asphalt Pavement-Ground Floor	Ten Wheelers- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00201	0.00581	0.00004	0.00041	0.00039	0.00039
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	0.49164	1.01939	0.00200	0.07411	0.07189	0.07181	0.00364	0.00755	0.00001	0.00055	0.00053	0.00053
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	240	1.75829	2.99091	0.00198	0.17032	0.16521	0.59874	0.00220	0.00374	0.00000	0.00021	0.00021	0.00075
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Concrete Ready Mix Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	240	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00603	0.01743	0.00011	0.00122	0.00118	0.00117
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Excavator	Excavators	Excavators175	Diesel	175	0.59	160	0.07359	0.22973	0.00141	0.01779	0.01726	0.01246	0.00134	0.00418	0.00003	0.00032	0.00031	0.00023
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	320	0.56018	1.20852	0.00177	0.09081	0.08808	0.05376	0.01166	0.02515	0.00004	0.00189	0.00183	0.00112
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Front Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	160	0.49164	1.01939	0.00200	0.07411	0.07189	0.07181	0.00182	0.00378	0.00001	0.00027	0.00027	0.00027
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00201	0.00581	0.00004	0.00041	0.00039	0.00039
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	160	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00402	0.01162	0.00008	0.00081	0.00079	0.00078
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Tractor Trailer- Stone Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	160	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00402	0.01162	0.00008	0.00081	0.00079	0.00078
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Foundations	Trencher for U/G Piping	Other Construction Equipment	Other Construction Equipment75	Diesel	75	0.59	160	0.51125	2.22683	0.00169	0.06447	0.06254	0.08514	0.00399	0.01738	0.00001	0.00050	0.00049	0.00066
1	2031	Parking Structure - 160000 sqft- G+1 story	Construction Mob & Layout	Survey Crew Trucks	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00025	0.00073	0.00000	0.00005	0.00005	0.00005
1	2031	Parking Structure - 160000 sqft- G+1 story	Construction Mob & Layout	Tractor Trailers Temp Fac.	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00010	0.00029	0.00000	0.00002	0.00002	0.00002
1	2031	Parking Structure - 160000 sqft- G+1 story	Horizontal Deck Pours	40 Ton Rough Terrain Crane	Cranes	Cranes300	Diesel	300	0.43	64	0.07837	0.33237	0.00145	0.01766	0.01713	0.02409	0.00071	0.00302	0.00001	0.00016	0.00016	0.00022
1	2031	Parking Structure - 160000 sqft- G+1 story	Horizontal Deck Pours	Concrete Pump	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	90	1.75829	2.99091	0.00198	0.17032	0.16521	0.59874	0.00083	0.00140	0.00000	0.00008	0.00008	0.00028
1	2031	Parking Structure - 160000 sqft- G+1 story	Horizontal Deck Pours	Concrete Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00151	0.00436	0.00003	0.00030	0.00030	0.00029
1	2031	Parking Structure - 160000 sqft- G+1 story	Horizontal Deck Pours	Fork Truck	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.59	64	0.56018	1.20852	0.00177	0.09081	0.08808	0.05376	0.00233	0.00503	0.00001	0.00038	0.00037	0.00022
1	2031	Parking Structure - 160000 sqft- G+1 story	Horizontal Deck Pours	Tool Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00151	0.00436	0.00003	0.00030	0.00030	0.00029
1	2031	Parking Structure - 160000 sqft- G+1 story	Horizontal Deck Pours	Tractor Trailer- Material Delivery	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	20	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00050	0.00145	0.00001	0.00010	0.00010	0.00010
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	2031	Taxiways	Fencing	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	98	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00246	0.00712	0.00005	0.00050	0.00048	0.00048
6	2031	Taxiways	Fencing	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	98	0.20988	0.62817	0.00148	0.05203	0.05047	0.03841	0.00171	0.00511	0.00001	0.00042	0.00041	0.00031
6	2031	Taxiways	Fencing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	98	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00246	0.00712	0.00005	0.00050	0.00048	0.00048
6	2031	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	98	0.15381	2.06485	0.00188	0.01489	0.01445	0.04104	0.00026	0.00351	0.00000	0.00003	0.00002	0.00007
6	2031	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	98	0.49164	1.01939	0.00200	0.07411	0.07189	0.07181	0.00112	0.00231	0.00000	0.00017	0.00016	0.00016
6	2031	Taxiways	Grading	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	27.0452	0.09337	0.27018	0.00135	0.02142	0.02077	0.01615	0.00029	0.00083	0.00000	0.00007	0.00006	0.00005
6	2031	Taxiways	Grading	Grader	Graders	Graders300	Diesel	300	0.59	27.0452	0.22377	0.65363	0.00134	0.03538	0.03431	0.05128	0.00118	0.00345	0.00001	0.00019	0.00018	0.00027
6	2031	Taxiways	Grading	Roller	Rollers	Rollers100	Diesel	100	0.59	27.0452	0.80519	1.44729	0.00184	0.12847	0.12462	0.08857	0.00142	0.00255	0.00000	0.00023	0.00022	0.00016
6	2031	Taxiways	Hydroseeding	Hydroseeder	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	24.365	0.50086	1.06987	0.00148	0.07708	0.07476	0.07099	0.00476	0.01017	0.00001	0.00073	0.00071	0.00067
6	2031	Taxiways	Hydroseeding	Off-Road Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24.365	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00061	0.00177	0.00001	0.00012	0.00012	0.00012
6	2031	Taxiways	Lighting	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	30.73333333	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00077	0.00223	0.00001	0.00016	0.00015	0.00015
6	2031	Taxiways	Lighting	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	30.73333333	0.51088	0.92785	0.00131	0.09472	0.09188	0.12957	0.00179	0.00325	0.00000	0.00033	0.00032	0.00045
6	2031	Taxiways	Lighting	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	30.73333333	0.20988	0.62817	0.00148	0.05203	0.05047	0.03841	0.00054	0.00160	0.00000	0.00013	0.00013	0.00010
6	2031	Taxiways	Lighting	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	30.73333333	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00077	0.00223	0.00001	0.00016	0.00015	0.00015
6	2031	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	30.73333333	0.15381	2.06485	0.00188	0.01489	0.01445	0.04104	0.00008	0.00110	0.00000	0.00001	0.00001	0.00002
6	2031	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	30.73333333	0.49164	1.01939	0.00200	0.07411	0.07189	0.07181	0.00035	0.00073	0.00000	0.00005	0.00005	0.00005
6	2031	Taxiways	Markings	Flatbed Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	504	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.01267	0.03661	0.00024	0.00256	0.00248	0.00246
6	2031	Taxiways	Markings	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	504	0.20988	0.62817	0.00148	0.05203	0.05047	0.03841	0.00877	0.02626	0.00006	0.00218	0.00211	0.00161
6	2031	Taxiways	Markings	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	504	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.01267	0.03661	0.00024	0.00256	0.00248	0.00246
6	2031	Taxiways	Soil Erosion/Sediment Control	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	22.4	0.20988	0.62817	0.00148	0.05203	0.05047	0.03841	0.00039	0.00117	0.00000	0.00010	0.00009	0.00007
6	2031	Taxiways	Soil Erosion/Sediment Control	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	44.8	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00113	0.00325	0.00002	0.00023	0.00022	0.00022
6	2031	Taxiways	Soil Erosion/Sediment Control	Pumps	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	22.4	1.75829	2.99091	0.00198	0.17032	0.16521	0.59874	0.00021	0.00035	0.00000	0.00002	0.00002	0.00007
6	2031	Taxiways	Soil Erosion/Sediment Control	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	22.4	0.49164	1.01939	0.00200	0.07411	0.07189	0.07181	0.00025	0.00053	0.00000	0.00004	0.00004	0.00004
6	2031	Taxiways	Subbase Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	51.52736842	0.09337	0.27018	0.00135	0.02142	0.02077	0.01615	0.00055	0.00158	0.00001	0.00013	0.00012	0.00009
6	2031	Taxiways	Subbase Placement	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	362.6	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00911	0.02634	0.00017	0.00184	0.00178	0.00177
6	2031	Taxiways	Subbase Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	51.52736842	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00129	0.00374	0.00002	0.00026	0.00025	0.00025
6	2031	Taxiways	Subbase Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	50.20615385	0.80519	1.44729	0.00184	0.12847	0.12462	0.08857	0.00263	0.00473	0.00001	0.00042	0.00041	0.00029
6	2031	Taxiways	Topsoil Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	60.1	0.09337	0.27018	0.00135	0.02142	0.02077	0.01615	0.00064	0.00185	0.00001	0.00015	0.00014	0.00011
6	2031	Taxiways	Topsoil Placement	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60.1	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00151	0.00437	0.00003	0.00030	0.00030	0.00029
6	2031	Taxiways	Topsoil Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	60.1	0.06440	0.18612	0.00121	0.01300	0.01261	0.01252	0.00151	0.00437	0.00003	0.00030	0.00030	0.00029
															TOTAL (Tons Per Year)		1.23	3.44	0.01	0.23	0.22	0.21

On-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO_2, CH_4, and N_2O) Emission: Metric Ton

																						MOVES5 Onroad Emission Factor (g/mile)						MOVES Onroad Emissions (Tons Per Year)					
Scenario ID	Year	Project	Equipment	Equipment Category	MOVES5 Onroad Lookup	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Distance for fugitive PM	Number of Vehicles	Number of Employees Or $M*11	Number of Project Days	Project Length	Project Width	Project Area	Building Height (Building	Open Space Height (Building	Number of Trees	Activity Rate	VMT	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2031	Parking Structure - 160000 sqft- G+1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	4	--	129	--	--	160000	--	--	--	--	37,000	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.03743	0.03712	0.00010	0.00443	0.00153	0.00104
1	2031	Parking Structure - 160000 sqft- G+1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	129	--	--	160000	--	--	--	--	19,733	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.01996	0.01980	0.00005	0.00236	0.00082	0.00056
1	2031	Parking Structure - 160000 sqft- G+1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	418.033	418.033	129	--	--	--	--	--	--	--	193,500	2.52541	0.02511	0.00224	0.02597	0.00750	0.04523	0.53867	0.00536	0.00048	0.00554	0.00160	0.00965
1	2031	Parking Structure - 160000 sqft- G+1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	129	--	--	160000	--	--	--	0.001	1,600	2.85135	3.30354	0.00549	0.45730	0.16038	0.05656	0.00503	0.00583	0.00001	0.00081	0.00028	0.00010
2	2031	Building - 100000 sqft- 10 stories	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	129	--	--	100000	--	--	--	--	23,125	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.02339	0.02320	0.00006	0.00277	0.00096	0.00065
2	2031	Building - 100000 sqft- 10 stories	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	129	--	--	100000	--	--	--	--	12,333	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.01248	0.01237	0.00003	0.00148	0.00051	0.00035
2	2031	Building - 100000 sqft- 10 stories	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	342.617	342.617	129	--	--	--	--	--	--	--	174,150	2.52541	0.02511	0.00224	0.02597	0.00750	0.04523	0.48480	0.00482	0.00043	0.00499	0.00144	0.00868
2	2031	Building - 100000 sqft- 10 stories	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	129	--	--	100000	--	--	--	0.0024	2,400	2.85135	3.30354	0.00549	0.45730	0.16038	0.05656	0.00754	0.00874	0.00001	0.00121	0.00042	0.00015
3	2031	Access Road	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	129	558	40	--	--	--	--	--	324	2.85135	3.30354	0.00549	0.45730	0.16038	0.05656	0.00102	0.00118	0.00000	0.00016	0.00006	0.00002
3	2031	Access Road	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	129	558	40	--	--	--	--	--	5,162	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.00522	0.00518	0.00001	0.00062	0.00021	0.00015
3	2031	Access Road	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	129	558	40	--	--	--	--	--	459	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.00046	0.00046	0.00000	0.00006	0.00002	0.00001
3	2031	Access Road	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	129	558	40	--	--	--	--	--	2,753	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.00278	0.00276	0.00001	0.00033	0.00011	0.00008
3	2031	Access Road	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	134.233	134.233	129	--	--	--	--	--	--	--	519,482	2.52541	0.02511	0.00224	0.02597	0.00750	0.04523	1.44614	0.01438	0.00128	0.01487	0.00430	0.02590
4	2031	Building - 10000 sqft- 1 story	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	65	--	--	10000	--	--	--	--	2,313	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.00234	0.00232	0.00001	0.00028	0.00010	0.00007
4	2031	Building - 10000 sqft- 1 story	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	65	--	--	10000	--	--	--	--	1,233	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.00125	0.00124	0.00000	0.00015	0.00005	0.00003

4	2031	Building - 10000 sqft- 1 story	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	149.985	149.985	65	--	--	--	--	--	--	--	292,471	2.52541	0.02511	0.00224	0.02597	0.00750	0.04523	0.81418	0.00809	0.00072	0.00837	0.00242	0.01458
4	2031	Building - 10000 sqft- 1 story	Tractor Trailer	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	65	--	--	10000	--	--	--	0.0016	160	2.85135	3.30354	0.00549	0.45730	0.16038	0.05656	0.00050	0.00058	0.00000	0.00008	0.00003	0.00001
5	2031	Taxiways	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	2335	100	--	--	--	--	--	3,388	2.85135	3.30354	0.00549	0.45730	0.16038	0.05656	0.01065	0.01234	0.00002	0.00171	0.00060	0.00021
5	2031	Taxiways	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	258	2335	100	--	--	--	--	--	53,997	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.05462	0.05417	0.00015	0.00647	0.00224	0.00152
5	2031	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	2335	100	--	--	--	--	--	4,800	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.00486	0.00482	0.00001	0.00058	0.00020	0.00014
5	2031	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258	2335	100	--	--	--	--	--	28,798	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.02913	0.02889	0.00008	0.00345	0.00119	0.00081
5	2031	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	225.786	225.786	258	--	--	--	--	--	--	--	1,747,584	2.52541	0.02511	0.00224	0.02597	0.00750	0.04523	4.86493	0.04836	0.00431	0.05004	0.01445	0.08713
6	2031	Taxiways	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	2205	100	--	--	--	--	--	3,199	2.85135	3.30354	0.00549	0.45730	0.16038	0.05656	0.01005	0.01165	0.00002	0.00161	0.00057	0.00020
6	2031	Taxiways	Cement Mixer	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	3	--	258	2205	100	--	--	--	--	--	50,991	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.05158	0.05115	0.00014	0.00611	0.00211	0.00144
6	2031	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	258	2205	100	--	--	--	--	--	4,533	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.00459	0.00455	0.00001	0.00054	0.00019	0.00013
6	2031	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	258	2205	100	--	--	--	--	--	27,195	0.91768	0.91004	0.00248	0.10871	0.03759	0.02559	0.02751	0.02728	0.00007	0.00326	0.00113	0.00077
6	2031	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	73	73	258	--	--	--	--	--	--	--	565,020	2.52541	0.02511	0.00224	0.02597	0.00750	0.04523	1.57290	0.01564	0.00139	0.01618	0.00467	0.02817
																											TOTAL (Tons Per Year)	10.034	0.412	0.009	0.138	0.042	0.183

Fugitive Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive Source Type	Number of Months	CO	NOx	SO_2	PM_{10}	VOC
1	2031	Parking Structure - 160000 sqft- G+1 story	Asphalt Drying	6	0.00000	0.00000	0.00000	0.00000	0.19451
1	2031	Parking Structure - 160000 sqft- G+1 story	Concrete Mixing/Batching	6	0.00000	0.00000	0.00000	0.13690	0.00000
1	2031	Parking Structure - 160000 sqft- G+1 story	Material Movement (Paved Roads)	6	0.00000	0.00000	0.00000	0.01795	0.00000
1	2031	Parking Structure - 160000 sqft- G+1 story	Material Movement (Unpaved Roads)	6	0.00000	0.00000	0.00000	0.05435	0.00000
2	2031	Building - 100000 sqft- 10 stories	Concrete Mixing/Batching	6	0.00000	0.00000	0.00000	0.08555	0.00000
2	2031	Building - 100000 sqft- 10 stories	Material Movement (Paved Roads)	6	0.00000	0.00000	0.00000	0.01495	0.00000
2	2031	Building - 100000 sqft- 10 stories	Material Movement (Unpaved Roads)	6	0.00000	0.00000	0.00000	0.04555	0.00000
3	2031	Access Road	Asphalt Drying	6	0.00000	0.00000	0.00000	0.00000	0.26765
3	2031	Access Road	Asphalt Storage and Batching	6	0.05400	0.00337	0.00062	0.00370	0.00167
3	2031	Access Road	Concrete Mixing/Batching	6	0.00000	0.00000	0.00000	0.01910	0.00000
3	2031	Access Road	Material Movement (Paved Roads)	6	0.00000	0.00000	0.00000	0.01195	0.00000
3	2031	Access Road	Material Movement (Unpaved Roads)	6	0.00000	0.00000	0.00000	0.03695	0.00000
3	2031	Access Road	Soil Handling	6	0.00000	0.00000	0.00000	0.00630	0.00000
3	2031	Access Road	Unstabilized Land and Wind Erosion	6	0.00000	0.00000	0.00000	0.00000	0.00000
4	2031	Building - 10000 sqft- 1 story	Concrete Mixing/Batching	3	0.00000	0.00000	0.00000	0.00855	0.00000
4	2031	Building - 10000 sqft- 1 story	Material Movement (Paved Roads)	3	0.00000	0.00000	0.00000	0.00302	0.00000
4	2031	Building - 10000 sqft- 1 story	Material Movement (Unpaved Roads)	3	0.00000	0.00000	0.00000	0.00890	0.00000
5	2031	Taxiways	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.28355
5	2031	Taxiways	Asphalt Storage and Batching	12	0.56495	0.03530	0.00650	0.03870	0.01750
5	2031	Taxiways	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.19980	0.00000
5	2031	Taxiways	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.04190	0.00000
5	2031	Taxiways	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.13480	0.00000
5	2031	Taxiways	Soil Handling	12	0.00000	0.00000	0.00000	0.06610	0.00000
5	2031	Taxiways	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	0.00000
6	2031	Taxiways	Asphalt Drying	12	0.00000	0.00000	0.00000	0.00000	0.26765
6	2031	Taxiways	Asphalt Storage and Batching	12	0.53350	0.03330	0.00615	0.03655	0.01650
6	2031	Taxiways	Concrete Mixing/Batching	12	0.00000	0.00000	0.00000	0.18865	0.00000
6	2031	Taxiways	Material Movement (Paved Roads)	12	0.00000	0.00000	0.00000	0.04190	0.00000
6	2031	Taxiways	Material Movement (Unpaved Roads)	12	0.00000	0.00000	0.00000	0.13420	0.00000
6	2031	Taxiways	Soil Handling	12	0.00000	0.00000	0.00000	0.06240	0.00000
6	2031	Taxiways	Unstabilized Land and Wind Erosion	12	0.00000	0.00000	0.00000	0.00000	0.00000
				TOTAL (Tons Per Year)	1.15245	0.07197	0.013	1.39872	1.04903

Total Construction Emissions By Source

Emission Source	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
NonRoad	1.23	3.44	0.01	0.23	0.22	0.21
OnRoad	10.03	0.41	0.01	0.14	0.04	0.18
Fugitive	1.15	0.07	0.01	1.40	--	1.05
TOTAL (Tons Per Year)	**12.42**	**3.93**	**0.04**	**1.76**	**0.26**	**1.44**

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INPUT DATA AND SPECIFICATIONS

State/County
Texas
Dallas County

Scenarios

Scer	Year	Number of	Season	Average Daily Temp (degF)	Max Daily Temp Change (degF)	Min Daily Temp Change (degF)
1	2031	6	Summer	T <= 10	20 <= Change in T	20 <= Change in T
2	2031	6	Summer	T <= 10	20 <= Change in T	20 <= Change in T
3	2031	6	Summer	T <= 10	20 <= Change in T	20 <= Change in T
4	2031	3	Summer	T <= 10	20 <= Change in T	20 <= Change in T
5	2031	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
6	2031	12	Summer	T <= 10	20 <= Change in T	20 <= Change in T
7						

Project Final Selections

Scer	Project	Constructi	Equipment	Fuel Type	
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Asphalt Paver	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Backhoe	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Concrete Pump	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Concrete Ready Mix Trucks	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Excavator	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Fork Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Front Loader	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tool Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tractor Trailer- Material Delivery	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tractor Trailer- Stone Delivery	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Trencher for U/G Piping	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Constructi	Survey Crew Trucks	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Constructi	Tractor Trailers Temp Fac.	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	40 Ton Rough Terrain Crane	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Concrete Pump	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Concrete Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Fork Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Tool Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Tractor Trailer- Material Delivery	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Trowel Machines (2) machines	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Forklift	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	High Lift	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Tool Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Trencher	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	40 Ton Rough Terrain Crane	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Fork Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Grout Mixer	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Man Lift	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Tool Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Tractor Trailer- Material Delivery	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Security &	High Lift	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Security &	Tool Truck	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/l	Front Loader	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/l	Tractor Trailer- Topsoil & Seed	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/l	Tractor Trailer with Boom Hoist- Curbs Del	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Structural	90 Ton Crane	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Structural	Concrete Pump	Diesel	
1	Parking Structure - 160000 sqft- G+1 sto	Structural	Tractor Trailer- Steel Deliveries	Diesel	
2	Building - 100000 sqft- 10 stories	Concrete F	Backhoe	Diesel	
2	Building - 100000 sqft- 10 stories	Concrete F	Concrete Pump	Diesel	
2	Building - 100000 sqft- 10 stories	Concrete F	Concrete Ready Mix Trucks	Diesel	
2	Building - 100000 sqft- 10 stories	Concrete F	Excavator	Diesel	
2	Building - 100000 sqft- 10 stories	Concrete F	Fork Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Concrete F	Tool Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Concrete F	Tractor Trailer- Material Delivery	Diesel	
2	Building - 100000 sqft- 10 stories	Constructi	Survey Crew Trucks	Diesel	
2	Building - 100000 sqft- 10 stories	Constructi	Tractor Trailers Temp Fac.	Diesel	
2	Building - 100000 sqft- 10 stories	Exterior W	Fork Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Exterior W	Generator	Diesel	
2	Building - 100000 sqft- 10 stories	Exterior W	Grout Mixer	Diesel	
2	Building - 100000 sqft- 10 stories	Exterior W	Grout Wheel Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Exterior W	Man Lift	Diesel	
2	Building - 100000 sqft- 10 stories	Exterior W	Tool Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Exterior W	Tractor Trailer- Material Delivery	Diesel	
2	Building - 100000 sqft- 10 stories	Exterior W	Truck Tower (Mantiwoc type)	Diesel	
2	Building - 100000 sqft- 10 stories	Interior Bu	Fork Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Interior Bu	Man Lift	Diesel	
2	Building - 100000 sqft- 10 stories	Interior Bu	Tool Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
2	Building - 100000 sqft- 10 stories	Roofing	High Lift	Diesel	
2	Building - 100000 sqft- 10 stories	Roofing	Man Lift	Diesel	
2	Building - 100000 sqft- 10 stories	Roofing	Material Deliveries	Diesel	
2	Building - 100000 sqft- 10 stories	Roofing	Tractor Trailer- Material Delivery	Diesel	
2	Building - 100000 sqft- 10 stories	Roofing	Truck Tower (Mantiwoc type)	Diesel	
2	Building - 100000 sqft- 10 stories	Security &	High Lift	Diesel	
2	Building - 100000 sqft- 10 stories	Security &	Tool Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Structural	90 Ton Crane	Diesel	
2	Building - 100000 sqft- 10 stories	Structural	Concrete Pump	Diesel	
2	Building - 100000 sqft- 10 stories	Structural	Concrete Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Structural	Fork Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Structural	Tool Truck	Diesel	
2	Building - 100000 sqft- 10 stories	Structural	Tractor Trailer- Steel Deliveries	Diesel	
2	Building - 100000 sqft- 10 stories	Structural	Trowel Machine	Diesel	
2	Building - 100000 sqft- 10 stories	Structural	Truck Tower (Mantiwoc type)	Diesel	
3	Access Road	Asphalt Pl	Asphalt Paver	Diesel	
3	Access Road	Asphalt Pl	Dump Truck	Diesel	
3	Access Road	Asphalt Pl	Other General Equipment	Diesel	
3	Access Road	Asphalt Pl	Pickup Truck	Diesel	
3	Access Road	Asphalt Pl	Roller	Diesel	
3	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	
3	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	
3	Access Road	Clearing a	Chain Saw	Diesel	*** GASOLINE DATA USED: DIESEL DATA NOT AVAILABLE ***
3	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	
3	Access Road	Clearing a	Pickup Truck	Diesel	
3	Access Road	Concrete F	Air Compressor	Diesel	
3	Access Road	Concrete F	Concrete Saws	Diesel	
3	Access Road	Concrete F	Concrete Truck	Diesel	
3	Access Road	Concrete F	Other General Equipment	Diesel	
3	Access Road	Concrete F	Pickup Truck	Diesel	
3	Access Road	Concrete F	Rubber Tired Loader	Diesel	
3	Access Road	Concrete F	Slip Form Paver	Diesel	
3	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	
3	Access Road	Curbing	Concrete Truck	Diesel	
3	Access Road	Curbing	Curb/Gutter Paver	Diesel	
3	Access Road	Curbing	Other General Equipment	Diesel	
3	Access Road	Curbing	Pickup Truck	Diesel	
3	Access Road	Drainage -	Dozer	Diesel	
3	Access Road	Drainage -	Dump Truck	Diesel	
3	Access Road	Drainage -	Excavator	Diesel	
3	Access Road	Drainage -	Loader	Diesel	
3	Access Road	Drainage -	Other General Equipment	Diesel	
3	Access Road	Drainage -	Pickup Truck	Diesel	
3	Access Road	Drainage -	Roller	Diesel	
3	Access Road	Drainage -	Dump Truck	Diesel	
3	Access Road	Drainage -	Loader	Diesel	
3	Access Road	Drainage -	Other General Equipment	Diesel	
3	Access Road	Drainage -	Pickup Truck	Diesel	
3	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	
3	Access Road	Dust Contr	Water Truck	Diesel	
3	Access Road	Excavatior	Dozer	Diesel	
3	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	
3	Access Road	Excavatior	Pickup Truck	Diesel	
3	Access Road	Excavatior	Roller	Diesel	
3	Access Road	Excavatior	Dozer	Diesel	
3	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	
3	Access Road	Excavatior	Excavator	Diesel	
3	Access Road	Excavatior	Pickup Truck	Diesel	
3	Access Road	Excavatior	Roller	Diesel	
3	Access Road	Excavatior	Scraper	Diesel	
3	Access Road	Excavatior	Dozer	Diesel	
3	Access Road	Fencing	Concrete Truck	Diesel	
3	Access Road	Fencing	Dump Truck	Diesel	
3	Access Road	Fencing	Other General Equipment	Diesel	
3	Access Road	Fencing	Pickup Truck	Diesel	
3	Access Road	Fencing	Skid Steer Loader	Diesel	
3	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	
3	Access Road	Grading	Dozer	Diesel	
3	Access Road	Grading	Grader	Diesel	
3	Access Road	Grading	Roller	Diesel	
3	Access Road	Hydroseec	Hydroseeder	Diesel	
3	Access Road	Hydroseec	Off-Road Truck	Diesel	
3	Access Road	Markings	Flatbed Truck	Diesel	
3	Access Road	Markings	Other General Equipment	Diesel	
3	Access Road	Markings	Pickup Truck	Diesel	
3	Access Road	Sidewalks	Concrete Truck	Diesel	
3	Access Road	Sidewalks	Dump Truck	Diesel	
3	Access Road	Sidewalks	Pickup Truck	Diesel	
3	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	
3	Access Road	Sidewalks	Vibratory Compactor	Diesel	
3	Access Road	Soil Erosio	Other General Equipment	Diesel	
3	Access Road	Soil Erosio	Pickup Truck	Diesel	
3	Access Road	Soil Erosio	Pumps	Diesel	
3	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	
3	Access Road	Street Ligh	Dump Truck	Diesel	
3	Access Road	Street Ligh	Loader	Diesel	
3	Access Road	Street Ligh	Other General Equipment	Diesel	
3	Access Road	Street Ligh	Pickup Truck	Diesel	
3	Access Road	Street Ligh	Skid Steer Loader	Diesel	
3	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	
3	Access Road	Subbase P	Dozer	Diesel	
3	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	
3	Access Road	Subbase P	Pickup Truck	Diesel	
3	Access Road	Subbase P	Roller	Diesel	
3	Access Road	Topsoil Pla	Dozer	Diesel	
3	Access Road	Topsoil Pla	Dump Truck	Diesel	
3	Access Road	Topsoil Pla	Pickup Truck	Diesel	
3	Access Road	Tree Plant	Flatbed Truck	Diesel	
3	Access Road	Tree Plant	Other General Equipment	Diesel	
3	Access Road	Tree Plant	Pickup Truck	Diesel	
3	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	
4	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	
4	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	
4	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	
4	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	
4	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	
4	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	
4	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	
4	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	
4	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	
4	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	
4	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	
4	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	
4	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	
4	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	
4	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	
4	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	
4	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	
5	Taxiways	Asphalt Pl	Asphalt Paver	Diesel	
5	Taxiways	Asphalt Pl	Dump Truck	Diesel	
5	Taxiways	Asphalt Pl	Other General Equipment	Diesel	
5	Taxiways	Asphalt Pl	Pickup Truck	Diesel	
5	Taxiways	Asphalt Pl	Roller	Diesel	
5	Taxiways	Asphalt Pl	Skid Steer Loader	Diesel	
5	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	
5	Taxiways	Clearing a	Chain Saw	Diesel	*** GASOLINE DATA USED: DIESEL DATA NOT AVAILABLE ***
5	Taxiways	Clearing a	Chipper/Stump Grinder	Diesel	
5	Taxiways	Clearing a	Pickup Truck	Diesel	
5	Taxiways	Concrete F	Air Compressor	Diesel	
5	Taxiways	Concrete F	Concrete Saws	Diesel	
5	Taxiways	Concrete F	Concrete Truck	Diesel	
5	Taxiways	Concrete F	Other General Equipment	Diesel	
5	Taxiways	Concrete F	Pickup Truck	Diesel	
5	Taxiways	Concrete F	Rubber Tired Loader	Diesel	
5	Taxiways	Concrete F	Slip Form Paver	Diesel	
5	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Diesel	
5	Taxiways	Drainage -	Dozer	Diesel	
5	Taxiways	Drainage -	Dump Truck	Diesel	
5	Taxiways	Drainage -	Excavator	Diesel	
5	Taxiways	Drainage -	Loader	Diesel	
5	Taxiways	Drainage -	Other General Equipment	Diesel	
5	Taxiways	Drainage -	Pickup Truck	Diesel	
5	Taxiways	Drainage -	Roller	Diesel	
5	Taxiways	Drainage -	Dump Truck	Diesel	
5	Taxiways	Drainage -	Loader	Diesel	
5	Taxiways	Drainage -	Other General Equipment	Diesel	
5	Taxiways	Drainage -	Pickup Truck	Diesel	
5	Taxiways	Drainage -	Tractors/Loader/Backhoe	Diesel	
5	Taxiways	Dust Contr	Water Truck	Diesel	
5	Taxiways	Excavatior	Dozer	Diesel	
5	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	
5	Taxiways	Excavatior	Pickup Truck	Diesel	
5	Taxiways	Excavatior	Roller	Diesel	
5	Taxiways	Excavatior	Dozer	Diesel	
5	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	
5	Taxiways	Excavatior	Excavator	Diesel	
5	Taxiways	Excavatior	Pickup Truck	Diesel	
5	Taxiways	Excavatior	Roller	Diesel	
5	Taxiways	Excavatior	Scraper	Diesel	
5	Taxiways	Excavatior	Dozer	Diesel	
5	Taxiways	Fencing	Concrete Truck	Diesel	
5	Taxiways	Fencing	Dump Truck	Diesel	
5	Taxiways	Fencing	Other General Equipment	Diesel	
5	Taxiways	Fencing	Pickup Truck	Diesel	
5	Taxiways	Fencing	Skid Steer Loader	Diesel	
5	Taxiways	Fencing	Tractors/Loader/Backhoe	Diesel	
5	Taxiways	Grading	Dozer	Diesel	
5	Taxiways	Grading	Grader	Diesel	
5	Taxiways	Grading	Roller	Diesel	
5	Taxiways	Hydroseec	Hydroseeder	Diesel	
5	Taxiways	Hydroseec	Off-Road Truck	Diesel	
5	Taxiways	Lighting	Dump Truck	Diesel	
5	Taxiways	Lighting	Loader	Diesel	
5	Taxiways	Lighting	Other General Equipment	Diesel	
5	Taxiways	Lighting	Pickup Truck	Diesel	
5	Taxiways	Lighting	Skid Steer Loader	Diesel	
5	Taxiways	Lighting	Tractors/Loader/Backhoe	Diesel	
5	Taxiways	Markings	Flatbed Truck	Diesel	
5	Taxiways	Markings	Other General Equipment	Diesel	
5	Taxiways	Markings	Pickup Truck	Diesel	
5	Taxiways	Soil Erosio	Other General Equipment	Diesel	
5	Taxiways	Soil Erosio	Pickup Truck	Diesel	
5	Taxiways	Soil Erosio	Pumps	Diesel	
5	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Diesel	
5	Taxiways	Subbase P	Dozer	Diesel	
5	Taxiways	Subbase P	Dump Truck (12 cy)	Diesel	
5	Taxiways	Subbase P	Pickup Truck	Diesel	
5	Taxiways	Subbase P	Roller	Diesel	
5	Taxiways	Topsoil Pla	Dozer	Diesel	
5	Taxiways	Topsoil Pla	Dump Truck	Diesel	
5	Taxiways	Topsoil Pla	Pickup Truck	Diesel	
6	Taxiways	Asphalt Pl	Asphalt Paver	Diesel	
6	Taxiways	Asphalt Pl	Dump Truck	Diesel	
6	Taxiways	Asphalt Pl	Other General Equipment	Diesel	
6	Taxiways	Asphalt Pl	Pickup Truck	Diesel	
6	Taxiways	Asphalt Pl	Roller	Diesel	
6	Taxiways	Asphalt Pl	Skid Steer Loader	Diesel	
6	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	
6	Taxiways	Clearing a	Chain Saw	Diesel	*** GASOLINE DATA USED: DIESEL DATA NOT AVAILABLE ***
6	Taxiways	Clearing a	Chipper/Stump Grinder	Diesel	
6	Taxiways	Clearing a	Pickup Truck	Diesel	
6	Taxiways	Concrete F	Air Compressor	Diesel	
6	Taxiways	Concrete F	Concrete Saws	Diesel	
6	Taxiways	Concrete F	Concrete Truck	Diesel	
6	Taxiways	Concrete F	Other General Equipment	Diesel	
6	Taxiways	Concrete F	Pickup Truck	Diesel	
6	Taxiways	Concrete F	Rubber Tired Loader	Diesel	
6	Taxiways	Concrete F	Slip Form Paver	Diesel	
6	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Diesel	
6	Taxiways	Drainage -	Dozer	Diesel	
6	Taxiways	Drainage -	Dump Truck	Diesel	
6	Taxiways	Drainage -	Excavator	Diesel	
6	Taxiways	Drainage -	Loader	Diesel	
6	Taxiways	Drainage -	Other General Equipment	Diesel	
6	Taxiways	Drainage -	Pickup Truck	Diesel	

6	Taxiways	Drainage -	Roller	Diesel
6	Taxiways	Drainage -	Dump Truck	Diesel
6	Taxiways	Drainage -	Loader	Diesel
6	Taxiways	Drainage -	Other General Equipment	Diesel
6	Taxiways	Drainage -	Pickup Truck	Diesel
6	Taxiways	Drainage -	Tractors/Loader/Backhoe	Diesel
6	Taxiways	Dust Contr	Water Truck	Diesel
6	Taxiways	Excavatior	Dozer	Diesel
6	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel
6	Taxiways	Excavatior	Pickup Truck	Diesel
6	Taxiways	Excavatior	Roller	Diesel
6	Taxiways	Excavatior	Dozer	Diesel
6	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel
6	Taxiways	Excavatior	Excavator	Diesel
6	Taxiways	Excavatior	Pickup Truck	Diesel
6	Taxiways	Excavatior	Roller	Diesel
6	Taxiways	Excavatior	Scraper	Diesel
6	Taxiways	Excavatior	Dozer	Diesel
6	Taxiways	Fencing	Concrete Truck	Diesel
6	Taxiways	Fencing	Dump Truck	Diesel
6	Taxiways	Fencing	Other General Equipment	Diesel
6	Taxiways	Fencing	Pickup Truck	Diesel
6	Taxiways	Fencing	Skid Steer Loader	Diesel
6	Taxiways	Fencing	Tractors/Loader/Backhoe	Diesel
6	Taxiways	Grading	Dozer	Diesel
6	Taxiways	Grading	Grader	Diesel
6	Taxiways	Grading	Roller	Diesel
6	Taxiways	Hydroseec	Hydroseeder	Diesel
6	Taxiways	Hydroseec	Off-Road Truck	Diesel
6	Taxiways	Lighting	Dump Truck	Diesel
6	Taxiways	Lighting	Loader	Diesel
6	Taxiways	Lighting	Other General Equipment	Diesel
6	Taxiways	Lighting	Pickup Truck	Diesel
6	Taxiways	Lighting	Skid Steer Loader	Diesel
6	Taxiways	Lighting	Tractors/Loader/Backhoe	Diesel
6	Taxiways	Markings	Flatbed Truck	Diesel
6	Taxiways	Markings	Other General Equipment	Diesel
6	Taxiways	Markings	Pickup Truck	Diesel
6	Taxiways	Soil Erosio	Other General Equipment	Diesel
6	Taxiways	Soil Erosio	Pickup Truck	Diesel
6	Taxiways	Soil Erosio	Pumps	Diesel
6	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Diesel
6	Taxiways	Subbase P	Dozer	Diesel
6	Taxiways	Subbase P	Dump Truck (12 cy)	Diesel
6	Taxiways	Subbase P	Pickup Truck	Diesel
6	Taxiways	Subbase P	Roller	Diesel
6	Taxiways	Topsoil Pla	Dozer	Diesel
6	Taxiways	Topsoil Pla	Dump Truck	Diesel
6	Taxiways	Topsoil Pla	Pickup Truck	Diesel

Overall Size

Scer	Project	Project Siz	User Input	Unit
1	Parking Structure - 160000 sqft- G+1 sto	What is th	38.003	$ Million(s)
2	Building - 100000 sqft- 10 stories	What is th	31.147	$ Million(s)
3	Access Road	What is th	12.203	$ Million(s)
3	Access Road	What is th	558	Feet
3	Access Road	What is th	40	Feet
4	Building - 10000 sqft- 1 story	What is th	13.635	$ Million(s)
5	Taxiways	What is th	20.526	$ Million(s)
5	Taxiways	What is th	2335	Feet
5	Taxiways	What is th	100	Feet
6	Taxiways	What is th	6.455	$ Million(s)
6	Taxiways	What is th	2205	Feet
6	Taxiways	What is th	100	Feet

Size Detail (Estimated based on engineering experience)

Scer	Project	Constructi	Default Activity Size	Unit	User Activity Size		
3	Access Road	Asphalt Pl	2477.5	Square Yards		5.05	0.26765
3	Access Road	Clearing a	0.7	Acres			
3	Access Road	Concrete F	1032.3	Cubic Yards			
3	Access Road	Curbing	1116	Linear Feet			
3	Access Road	Drainage -	568	Linear Feet			
3	Access Road	Drainage -	1136	Linear Feet			
3	Access Road	Dust Contr	180	Days			
3	Access Road	Excavatior	1032.3	Cubic Yards			
3	Access Road	Excavatior	1032.3	Cubic Yards			
3	Access Road	Excavatior	2477.5	Square Yards			
3	Access Road	Fencing	558	Linear Feet			
3	Access Road	Grading	3152.4	Square Yards			
3	Access Road	Hydroseec	28400	Square Feet			
3	Access Road	Markings	22320	Square Feet			
3	Access Road	Sidewalks	3348	Square Feet			
3	Access Road	Soil Erosio	0.7	Acres			
3	Access Road	Street Ligh	5.6	Lights			
3	Access Road	Subbase P	2477.5	Square Yards			
3	Access Road	Subbase P	825.8	Cubic Yards			
3	Access Road	Topsoil Pla	525.4	Cubic Yards			
3	Access Road	Tree Plant	0	Trees			
5	Taxiways	Asphalt Pl	25918.5	Square Yards		5.35	0.28355
5	Taxiways	Clearing a	5.9	Acres			
5	Taxiways	Concrete F	10799.4	Cubic Yards			
5	Taxiways	Drainage -	2345	Linear Feet			
5	Taxiways	Drainage -	4690	Linear Feet			
5	Taxiways	Dust Contr	360	Days			
5	Taxiways	Excavatior	10799.4	Cubic Yards			
5	Taxiways	Excavatior	10799.4	Cubic Yards			
5	Taxiways	Excavatior	25918.5	Square Yards			
5	Taxiways	Fencing	2335	Linear Feet			
5	Taxiways	Grading	28632.5	Square Yards			
5	Taxiways	Hydroseec	257950	Square Feet			
5	Taxiways	Lighting	4870	Linear Feet			
5	Taxiways	Markings	233500	Square Feet			
5	Taxiways	Soil Erosio	5.9	Acres			
5	Taxiways	Subbase P	25918.5	Square Yards			
5	Taxiways	Subbase P	8639.5	Cubic Yards			
5	Taxiways	Topsoil Pla	4772.1	Cubic Yards			
6	Taxiways	Asphalt Pl	24475.5	Square Yards		5.05	0.26765
6	Taxiways	Clearing a	5.6	Acres			
6	Taxiways	Concrete F	10198.1	Cubic Yards			
6	Taxiways	Drainage -	2215	Linear Feet			
6	Taxiways	Drainage -	4430	Linear Feet			
6	Taxiways	Dust Contr	360	Days			
6	Taxiways	Excavatior	10198.1	Cubic Yards			
6	Taxiways	Excavatior	10198.1	Cubic Yards			
6	Taxiways	Excavatior	24475.5	Square Yards			
6	Taxiways	Fencing	2205	Linear Feet			
6	Taxiways	Grading	27045.2	Square Yards			
6	Taxiways	Hydroseec	243650	Square Feet			
6	Taxiways	Lighting	4610	Linear Feet			
6	Taxiways	Markings	220500	Square Feet			
6	Taxiways	Soil Erosio	5.6	Acres			
6	Taxiways	Subbase P	24475.5	Square Yards			
6	Taxiways	Subbase P	8158.5	Cubic Yards			
6	Taxiways	Topsoil Pla	4507.5	Cubic Yards			

Activity: Non-Road (Estimated based on engineering experience)

Scer	Project	Constructi	Equipment	Fuel Type	Activity Size	Activity Rate	Default Activity	Activity Uni	User Activity Data	
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Asphalt Paver	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Backhoe	Diesel	160000.00 SF	0.002 Hours per 1.00 SF	320	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Concrete Pump	Diesel	160000.00 SF	0.0015 Hours per 1.00 SF	240	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Concrete Ready Mix Trucks	Diesel	160000.00 SF	0.0015 Hours per 1.00 SF	240	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Excavator	Diesel	160000.00 SF	0.001 Hours per 1.00 SF	160	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Fork Truck	Diesel	160000.00 SF	0.002 Hours per 1.00 SF	320	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Front Loader	Diesel	160000.00 SF	0.001 Hours per 1.00 SF	160	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tool Truck	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tractor Trailer- Material Delivery	Diesel	160000.00 SF	0.001 Hours per 1.00 SF	160	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tractor Trailer- Stone Delivery	Diesel	160000.00 SF	0.001 Hours per 1.00 SF	160	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Trencher for U/G Piping	Diesel	160000.00 SF	0.001 Hours per 1.00 SF	160	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Constructi	Survey Crew Trucks	Diesel	160000.00 SF	0.0000625 Hours per 1.00 SF	10	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Constructi	Tractor Trailers Temp Fac.	Diesel	160000.00 SF	0.000025 Hours per 1.00 SF	4	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	40 Ton Rough Terrain Crane	Diesel	160000.00 SF	0.0004 Hours per 1.00 SF	64	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Concrete Pump	Diesel	160000.00 SF	0.0005625 Hours per 1.00 SF	90	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Concrete Truck	Diesel	160000.00 SF	0.000375 Hours per 1.00 SF	60	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Fork Truck	Diesel	160000.00 SF	0.0004 Hours per 1.00 SF	64	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Tool Truck	Diesel	160000.00 SF	0.000375 Hours per 1.00 SF	60	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Tractor Trailer- Material Delivery	Diesel	160000.00 SF	0.000125 Hours per 1.00 SF	20	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Trowel Machines (2) machines	Diesel	160000.00 SF	0.0002 Hours per 1.00 SF	32	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Forklift	Diesel	160000.00 SF	0.0015 Hours per 1.00 SF	240	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	High Lift	Diesel	160000.00 SF	0.0015 Hours per 1.00 SF	240	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Tool Truck	Diesel	160000.00 SF	0.0015 Hours per 1.00 SF	240	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Trencher	Diesel	160000.00 SF	0.0015 Hours per 1.00 SF	240	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	40 Ton Rough Terrain Crane	Diesel	160000.00 SF	0.000375 Hours per 1.00 SF	60	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Fork Truck	Diesel	160000.00 SF	0.00075 Hours per 1.00 SF	120	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Grout Mixer	Diesel	160000.00 SF	0.00075 Hours per 1.00 SF	120	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Man Lift	Diesel	160000.00 SF	0.00075 Hours per 1.00 SF	120	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Tool Truck	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Tractor Trailer- Material Delivery	Diesel	160000.00 SF	0.00075 Hours per 1.00 SF	120	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Security &	High Lift	Diesel	160000.00 SF	0.001 Hours per 1.00 SF	160	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Security &	Tool Truck	Diesel	160000.00 SF	0.001 Hours per 1.00 SF	160	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/l	Front Loader	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/l	Tractor Trailer- Topsoil & Seed	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/l	Tractor Trailer with Boom Hoist- Curbs De	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Structural	90 Ton Crane	Diesel	160000.00 SF	0.001 Hours per 1.00 SF	160	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Structural	Concrete Pump	Diesel	160000.00 SF	0.00025 Hours per 1.00 SF	40	hours		
1	Parking Structure - 160000 sqft- G+1 sto	Structural	Tractor Trailer- Steel Deliveries	Diesel	160000.00 SF	0.0005 Hours per 1.00 SF	80	hours		
2	Building - 100000 sqft- 10 stories	Concrete F	Backhoe	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours		
2	Building - 100000 sqft- 10 stories	Concrete F	Concrete Pump	Diesel	100000.00 SF	0.0018 Hours per 1.00 SF	180	hours		
2	Building - 100000 sqft- 10 stories	Concrete F	Concrete Ready Mix Trucks	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours		
2	Building - 100000 sqft- 10 stories	Concrete F	Excavator	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours		
2	Building - 100000 sqft- 10 stories	Concrete F	Fork Truck	Diesel	100000.00 SF	0.0048 Hours per 1.00 SF	480	hours		
2	Building - 100000 sqft- 10 stories	Concrete F	Tool Truck	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours		
2	Building - 100000 sqft- 10 stories	Concrete F	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours		
2	Building - 100000 sqft- 10 stories	Constructi	Survey Crew Trucks	Diesel	100000.00 SF	0.0001 Hours per 1.00 SF	10	hours		
2	Building - 100000 sqft- 10 stories	Constructi	Tractor Trailers Temp Fac.	Diesel	100000.00 SF	0.00004 Hours per 1.00 SF	4	hours		
2	Building - 100000 sqft- 10 stories	Exterior W	Fork Truck	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours		
2	Building - 100000 sqft- 10 stories	Exterior W	Generator	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours		
2	Building - 100000 sqft- 10 stories	Exterior W	Grout Mixer	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours		
2	Building - 100000 sqft- 10 stories	Exterior W	Grout Wheel Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours		
2	Building - 100000 sqft- 10 stories	Exterior W	Man Lift	Diesel	100000.00 SF	0.0168 Hours per 1.00 SF	1680	hours		
2	Building - 100000 sqft- 10 stories	Exterior W	Tool Truck	Diesel	100000.00 SF	0.0042 Hours per 1.00 SF	420	hours		
2	Building - 100000 sqft- 10 stories	Exterior W	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0084 Hours per 1.00 SF	840	hours		
2	Building - 100000 sqft- 10 stories	Exterior W	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0008 Hours per 1.00 SF	80	hours		
2	Building - 100000 sqft- 10 stories	Interior Bu	Fork Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours		
2	Building - 100000 sqft- 10 stories	Interior Bu	Man Lift	Diesel	100000.00 SF	0.032 Hours per 1.00 SF	3200	hours		
2	Building - 100000 sqft- 10 stories	Interior Bu	Tool Truck	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours		
2	Building - 100000 sqft- 10 stories	Interior Bu	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.016 Hours per 1.00 SF	1600	hours		
2	Building - 100000 sqft- 10 stories	Roofing	High Lift	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours		
2	Building - 100000 sqft- 10 stories	Roofing	Man Lift	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours		
2	Building - 100000 sqft- 10 stories	Roofing	Material Deliveries	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours		
2	Building - 100000 sqft- 10 stories	Roofing	Tractor Trailer- Material Delivery	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours		
2	Building - 100000 sqft- 10 stories	Roofing	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0012 Hours per 1.00 SF	120	hours		
2	Building - 100000 sqft- 10 stories	Security &	High Lift	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours		
2	Building - 100000 sqft- 10 stories	Security &	Tool Truck	Diesel	100000.00 SF	0.008 Hours per 1.00 SF	800	hours		
2	Building - 100000 sqft- 10 stories	Structural	90 Ton Crane	Diesel	100000.00 SF	0.0024 Hours per 1.00 SF	240	hours		
2	Building - 100000 sqft- 10 stories	Structural	Concrete Pump	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours		
2	Building - 100000 sqft- 10 stories	Structural	Concrete Truck	Diesel	100000.00 SF	0.0006 Hours per 1.00 SF	60	hours		
2	Building - 100000 sqft- 10 stories	Structural	Fork Truck	Diesel	100000.00 SF	0.0064 Hours per 1.00 SF	640	hours		
2	Building - 100000 sqft- 10 stories	Structural	Tool Truck	Diesel	100000.00 SF	0.0016 Hours per 1.00 SF	160	hours		
2	Building - 100000 sqft- 10 stories	Structural	Tractor Trailer- Steel Deliveries	Diesel	100000.00 SF	0.0036 Hours per 1.00 SF	360	hours		
2	Building - 100000 sqft- 10 stories	Structural	Trowel Machine	Diesel	100000.00 SF	0.0004 Hours per 1.00 SF	40	hours		
2	Building - 100000 sqft- 10 stories	Structural	Truck Tower (Mantiwoc type)	Diesel	100000.00 SF	0.0072 Hours per 1.00 SF	720	hours		
3	Access Road	Asphalt Pl	Asphalt Paver	Diesel	2477.50 SY	8 Hours per 6400.00 SY	3.1	hours		
3	Access Road	Asphalt Pl	Dump Truck	Diesel	2477.50 SY	8 Hours per 1777.00 SY	11.15	hours		
3	Access Road	Asphalt Pl	Other General Equipment	Diesel	2477.50 SY	16 Hours per 6400.00 SY	6.19	hours		
3	Access Road	Asphalt Pl	Pickup Truck	Diesel	2477.50 SY	8 Hours per 6400.00 SY	3.1	hours		
3	Access Road	Asphalt Pl	Roller	Diesel	2477.50 SY	8 Hours per 6400.00 SY	3.1	hours		
3	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	2477.50 SY	8 Hours per 6400.00 SY	3.1	hours		
3	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	2477.50 SY	8 Hours per 5000.00 SY	3.96	hours		
3	Access Road	Clearing a	Chain Saw	Diesel	0.70 Acre	12 Hours per 1.00 Acre	8.4	hours		*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	0.70 Acre	12 Hours per 1.00 Acre	8.4	hours		
3	Access Road	Clearing a	Pickup Truck	Diesel	0.70 Acre	16 Hours per 1.00 Acre	11.2	hours		
3	Access Road	Concrete F	Air Compressor	Diesel	1032.30 CY	8 Hours per 1000.00 CY	8.26	hours		
3	Access Road	Concrete F	Concrete Saws	Diesel	1032.30 CY	8 Hours per 1000.00 CY	8.26	hours		
3	Access Road	Concrete F	Concrete Truck	Diesel	1032.30 CY	8 Hours per 240.00 CY	34.41	hours		
3	Access Road	Concrete F	Other General Equipment	Diesel	1032.30 CY	16 Hours per 1000.00 CY	16.52	hours		
3	Access Road	Concrete F	Pickup Truck	Diesel	1032.30 CY	24 Hours per 1000.00 CY	24.78	hours		
3	Access Road	Concrete F	Rubber Tired Loader	Diesel	1032.30 CY	8 Hours per 1000.00 CY	8.26	hours		
3	Access Road	Concrete F	Slip Form Paver	Diesel	1032.30 CY	8 Hours per 1000.00 CY	8.26	hours		
3	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	1032.30 CY	8 Hours per 1000.00 CY	8.26	hours		
3	Access Road	Curbing	Concrete Truck	Diesel	1116.00 LF	8 Hours per 400.00 LF	22.32	hours		
3	Access Road	Curbing	Curb/Gutter Paver	Diesel	1116.00 LF	8 Hours per 400.00 LF	22.32	hours		
3	Access Road	Curbing	Other General Equipment	Diesel	1116.00 LF	8 Hours per 400.00 LF	22.32	hours		
3	Access Road	Curbing	Pickup Truck	Diesel	1116.00 LF	8 Hours per 400.00 LF	22.32	hours		
3	Access Road	Drainage -	Dozer	Diesel	568.00 LF	8 Hours per 250.00 LF	18.18	hours		
3	Access Road	Drainage -	Dump Truck	Diesel	568.00 LF	8 Hours per 250.00 LF	18.18	hours		
3	Access Road	Drainage -	Excavator	Diesel	568.00 LF	8 Hours per 250.00 LF	18.18	hours		
3	Access Road	Drainage -	Loader	Diesel	568.00 LF	8 Hours per 250.00 LF	18.18	hours		
3	Access Road	Drainage -	Other General Equipment	Diesel	568.00 LF	8 Hours per 250.00 LF	18.18	hours		
3	Access Road	Drainage -	Pickup Truck	Diesel	568.00 LF	8 Hours per 250.00 LF	18.18	hours		
3	Access Road	Drainage -	Roller	Diesel	568.00 LF	8 Hours per 250.00 LF	18.18	hours		
3	Access Road	Drainage -	Dump Truck	Diesel	1136.00 LF	8 Hours per 900.00 LF	10.1	hours		
3	Access Road	Drainage -	Loader	Diesel	1136.00 LF	8 Hours per 900.00 LF	10.1	hours		
3	Access Road	Drainage -	Other General Equipment	Diesel	1136.00 LF	8 Hours per 900.00 LF	10.1	hours		
3	Access Road	Drainage -	Pickup Truck	Diesel	1136.00 LF	8 Hours per 900.00 LF	10.1	hours		
3	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	1136.00 LF	8 Hours per 900.00 LF	10.1	hours		
3	Access Road	Dust Contr	Water Truck	Diesel	180.00 Day	8 Hours per 1.00 Day	1440	hours		
3	Access Road	Excavatior	Dozer	Diesel	1032.30 CY	8 Hours per 600.00 CY	13.76	hours		
3	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	1032.30 CY	8 Hours per 600.00 CY	13.76	hours		
3	Access Road	Excavatior	Pickup Truck	Diesel	1032.30 CY	8 Hours per 600.00 CY	13.76	hours		
3	Access Road	Excavatior	Roller	Diesel	1032.30 CY	8 Hours per 1300.00 CY	6.35	hours		
3	Access Road	Excavatior	Dozer	Diesel	1032.30 CY	8 Hours per 800.00 CY	10.32	hours		
3	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	1032.30 CY	8 Hours per 300.00 CY	27.53	hours		
3	Access Road	Excavatior	Excavator	Diesel	1032.30 CY	8 Hours per 1000.00 CY	8.26	hours		
3	Access Road	Excavatior	Pickup Truck	Diesel	1032.30 CY	8 Hours per 1000.00 CY	8.26	hours		
3	Access Road	Excavatior	Roller	Diesel	1032.30 CY	8 Hours per 1000.00 CY	8.26	hours		
3	Access Road	Excavatior	Scraper	Diesel	1032.30 CY	8 Hours per 800.00 CY	10.32	hours		
3	Access Road	Excavatior	Dozer	Diesel	2477.50 SY	8 Hours per 5100.00 SY	3.89	hours		
3	Access Road	Fencing	Concrete Truck	Diesel	558.00 LF	2 Hours per 180.00 LF	6.2	hours		
3	Access Road	Fencing	Dump Truck	Diesel	558.00 LF	8 Hours per 180.00 LF	24.8	hours		
3	Access Road	Fencing	Other General Equipment	Diesel	558.00 LF	8 Hours per 180.00 LF	24.8	hours		
3	Access Road	Fencing	Pickup Truck	Diesel	558.00 LF	8 Hours per 180.00 LF	24.8	hours		
3	Access Road	Fencing	Skid Steer Loader	Diesel	558.00 LF	8 Hours per 180.00 LF	24.8	hours		
3	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	558.00 LF	8 Hours per 180.00 LF	24.8	hours		
3	Access Road	Grading	Dozer	Diesel	3152.40 SY	8 Hours per 8000.00 SY	3.15	hours		
3	Access Road	Grading	Grader	Diesel	3152.40 SY	8 Hours per 8000.00 SY	3.15	hours		
3	Access Road	Grading	Roller	Diesel	3152.40 SY	8 Hours per 8000.00 SY	3.15	hours		
3	Access Road	Hydroseec	Hydroseeder	Diesel	28400.00 SF	8 Hours per 80000.00 SF	2.84	hours		
3	Access Road	Hydroseec	Off-Road Truck	Diesel	28400.00 SF	8 Hours per 80000.00 SF	2.84	hours		
3	Access Road	Markings	Flatbed Truck	Diesel	22320.00 SF	8 Hours per 3500.00 SF	51.02	hours		
3	Access Road	Markings	Other General Equipment	Diesel	22320.00 SF	8 Hours per 3500.00 SF	51.02	hours		
3	Access Road	Markings	Pickup Truck	Diesel	22320.00 SF	8 Hours per 3500.00 SF	51.02	hours		
3	Access Road	Sidewalks	Concrete Truck	Diesel	3348.00 SF	8 Hours per 600.00 SF	44.64	hours		
3	Access Road	Sidewalks	Dump Truck	Diesel	3348.00 SF	8 Hours per 600.00 SF	44.64	hours		
3	Access Road	Sidewalks	Pickup Truck	Diesel	3348.00 SF	8 Hours per 600.00 SF	44.64	hours		
3	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	3348.00 SF	8 Hours per 600.00 SF	44.64	hours		
3	Access Road	Sidewalks	Vibratory Compactor	Diesel	3348.00 SF	8 Hours per 600.00 SF	44.64	hours		
3	Access Road	Soil Erosio	Other General Equipment	Diesel	0.70 Acre	4 Hours per 1.00 Acre	2.8	hours		
3	Access Road	Soil Erosio	Pickup Truck	Diesel	0.70 Acre	8 Hours per 1.00 Acre	5.6	hours		
3	Access Road	Soil Erosio	Pumps	Diesel	0.70 Acre	4 Hours per 1.00 Acre	2.8	hours		
3	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	0.70 Acre	4 Hours per 1.00 Acre	2.8	hours		
3	Access Road	Street Ligh	Dump Truck	Diesel	5.60 Lights	8 Hours per 3.00 Lights	14.93	hours		
3	Access Road	Street Ligh	Loader	Diesel	5.60 Lights	8 Hours per 3.00 Lights	14.93	hours		
3	Access Road	Street Ligh	Other General Equipment	Diesel	5.60 Lights	8 Hours per 3.00 Lights	14.93	hours		
3	Access Road	Street Ligh	Pickup Truck	Diesel	5.60 Lights	8 Hours per 3.00 Lights	14.93	hours		
3	Access Road	Street Ligh	Skid Steer Loader	Diesel	5.60 Lights	8 Hours per 3.00 Lights	14.93	hours		
3	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	5.60 Lights	8 Hours per 3.00 Lights	14.93	hours		
3	Access Road	Subbase P	Dozer	Diesel	2477.50 SY	8 Hours per 3800.00 SY	5.22	hours		
3	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	825.80 CY	8 Hours per 180.00 CY	36.7	hours		
3	Access Road	Subbase P	Pickup Truck	Diesel	2477.50 SY	8 Hours per 3800.00 SY	5.22	hours		
3	Access Road	Subbase P	Roller	Diesel	825.80 CY	8 Hours per 1300.00 CY	5.08	hours		
3	Access Road	Topsoil Pla	Dozer	Diesel	525.40 CY	8 Hours per 600.00 CY	7.01	hours		
3	Access Road	Topsoil Pla	Dump Truck	Diesel	525.40 CY	8 Hours per 600.00 CY	7.01	hours		
3	Access Road	Topsoil Pla	Pickup Truck	Diesel	525.40 CY	8 Hours per 600.00 CY	7.01	hours		
3	Access Road	Tree Plant	Flatbed Truck	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours		
3	Access Road	Tree Plant	Other General Equipment	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours		
3	Access Road	Tree Plant	Pickup Truck	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours		
3	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	0.00 Trees	8 Hours per 10.00 Trees	0	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
4	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
4	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	10000.00 SF	0.001 Hours per 1.00 SF	10	hours		
4	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	10000.00 SF	0.0004 Hours per 1.00 SF	4	hours		
4	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
4	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
4	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
4	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0024 Hours per 1.00 SF	24	hours		
4	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
4	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	10000.00 SF	0.096 Hours per 1.00 SF	960	hours		
4	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	10000.00 SF	0.0008 Hours per 1.00 SF	8	hours		
4	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	10000.00 SF	0.0012 Hours per 1.00 SF	12	hours		
4	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	10000.00 SF	0.032 Hours per 1.00 SF	320	hours		
4	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	10000.00 SF	0.008 Hours per 1.00 SF	80	hours		
4	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	10000.00 SF	0.024 Hours per 1.00 SF	240	hours		
4	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	10000.00 SF	0.012 Hours per 1.00 SF	120	hours		
4	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	10000.00 SF	0.006 Hours per 1.00 SF	60	hours		
4	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	10000.00 SF	0.0016 Hours per 1.00 SF	16	hours		
5	Taxiways	Asphalt Pl	Asphalt Paver	Diesel	25918.50 SY	8 Hours per 6400.00 SY	32.4	hours		
5	Taxiways	Asphalt Pl	Dump Truck	Diesel	25918.50 SY	8 Hours per 1777.00 SY	116.68	hours		
5	Taxiways	Asphalt Pl	Other General Equipment	Diesel	25918.50 SY	16 Hours per 6400.00 SY	64.8	hours		
5	Taxiways	Asphalt Pl	Pickup Truck	Diesel	25918.50 SY	8 Hours per 6400.00 SY	32.4	hours		
5	Taxiways	Asphalt Pl	Roller	Diesel	25918.50 SY	8 Hours per 6400.00 SY	32.4	hours		
5	Taxiways	Asphalt Pl	Skid Steer Loader	Diesel	25918.50 SY	8 Hours per 6400.00 SY	32.4	hours		
5	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25918.50 SY	8 Hours per 5000.00 SY	41.47	hours		
5	Taxiways	Clearing a	Chain Saw	Diesel	5.90 Acre	12 Hours per 1.00 Acre	70.8	hours		*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
5	Taxiways	Clearing a	Chipper/Stump Grinder	Diesel	5.90 Acre	12 Hours per 1.00 Acre	70.8	hours		
5	Taxiways	Clearing a	Pickup Truck	Diesel	5.90 Acre	16 Hours per 1.00 Acre	94.4	hours		
5	Taxiways	Concrete F	Air Compressor	Diesel	10799.40 CY	8 Hours per 1000.00 CY	86.4	hours		
5	Taxiways	Concrete F	Concrete Saws	Diesel	10799.40 CY	8 Hours per 1000.00 CY	86.4	hours		
5	Taxiways	Concrete F	Concrete Truck	Diesel	10799.40 CY	8 Hours per 240.00 CY	359.98	hours		
5	Taxiways	Concrete F	Other General Equipment	Diesel	10799.40 CY	16 Hours per 1000.00 CY	172.79	hours		
5	Taxiways	Concrete F	Pickup Truck	Diesel	10799.40 CY	24 Hours per 1000.00 CY	259.19	hours		
5	Taxiways	Concrete F	Rubber Tired Loader	Diesel	10799.40 CY	8 Hours per 1000.00 CY	86.4	hours		
5	Taxiways	Concrete F	Slip Form Paver	Diesel	10799.40 CY	8 Hours per 1000.00 CY	86.4	hours		
5	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Diesel	10799.40 CY	8 Hours per 1000.00 CY	86.4	hours		
5	Taxiways	Drainage -	Dozer	Diesel	2345.00 LF	8 Hours per 250.00 LF	75.04	hours		
5	Taxiways	Drainage -	Dump Truck	Diesel	2345.00 LF	8 Hours per 250.00 LF	75.04	hours		
5	Taxiways	Drainage -	Excavator	Diesel	2345.00 LF	8 Hours per 250.00 LF	75.04	hours		
5	Taxiways	Drainage -	Loader	Diesel	2345.00 LF	8 Hours per 250.00 LF	75.04	hours		
5	Taxiways	Drainage -	Other General Equipment	Diesel	2345.00 LF	8 Hours per 250.00 LF	75.04	hours		
5	Taxiways	Drainage -	Pickup Truck	Diesel	2345.00 LF	8 Hours per 250.00 LF	75.04	hours		
5	Taxiways	Drainage -	Roller	Diesel	2345.00 LF	8 Hours per 250.00 LF	75.04	hours		
5	Taxiways	Drainage -	Dump Truck	Diesel	4690.00 LF	8 Hours per 900.00 LF	41.69	hours		
5	Taxiways	Drainage -	Loader	Diesel	4690.00 LF	8 Hours per 900.00 LF	41.69	hours		
5	Taxiways	Drainage -	Other General Equipment	Diesel	4690.00 LF	8 Hours per 900.00 LF	41.69	hours		
5	Taxiways	Drainage -	Pickup Truck	Diesel	4690.00 LF	8 Hours per 900.00 LF	41.69	hours		
5	Taxiways	Drainage -	Tractors/Loader/Backhoe	Diesel	4690.00 LF	8 Hours per 900.00 LF	41.69	hours		
5	Taxiways	Dust Contr	Water Truck	Diesel	360.00 Day	8 Hours per 1.00 Day	2880	hours		
5	Taxiways	Excavatior	Dozer	Diesel	10799.40 CY	8 Hours per 600.00 CY	143.99	hours		
5	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	10799.40 CY	8 Hours per 600.00 CY	143.99	hours		
5	Taxiways	Excavatior	Pickup Truck	Diesel	10799.40 CY	8 Hours per 600.00 CY	143.99	hours		
5	Taxiways	Excavatior	Roller	Diesel	10799.40 CY	8 Hours per 1300.00 CY	66.46	hours		
5	Taxiways	Excavatior	Dozer	Diesel	10799.40 CY	8 Hours per 800.00 CY	107.99	hours		
5	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	10799.40 CY	8 Hours per 300.00 CY	287.98	hours		
5	Taxiways	Excavatior	Excavator	Diesel	10799.40 CY	8 Hours per 1000.00 CY	86.4	hours		
5	Taxiways	Excavatior	Pickup Truck	Diesel	10799.40 CY	8 Hours per 1000.00 CY	86.4	hours		
5	Taxiways	Excavatior	Roller	Diesel	10799.40 CY	8 Hours per 1000.00 CY	86.4	hours		
5	Taxiways	Excavatior	Scraper	Diesel	10799.40 CY	8 Hours per 800.00 CY	107.99	hours		
5	Taxiways	Excavatior	Dozer	Diesel	25918.50 SY	8 Hours per 5100.00 SY	40.66	hours		
5	Taxiways	Fencing	Concrete Truck	Diesel	2335.00 LF	2 Hours per 180.00 LF	25.94	hours		
5	Taxiways	Fencing	Dump Truck	Diesel	2335.00 LF	8 Hours per 180.00 LF	103.78	hours		
5	Taxiways	Fencing	Other General Equipment	Diesel	2335.00 LF	8 Hours per 180.00 LF	103.78	hours		
5	Taxiways	Fencing	Pickup Truck	Diesel	2335.00 LF	8 Hours per 180.00 LF	103.78	hours		
5	Taxiways	Fencing	Skid Steer Loader	Diesel	2335.00 LF	8 Hours per 180.00 LF	103.78	hours		
5	Taxiways	Fencing	Tractors/Loader/Backhoe	Diesel	2335.00 LF	8 Hours per 180.00 LF	103.78	hours		
5	Taxiways	Grading	Dozer	Diesel	28632.50 SY	8 Hours per 8000.00 SY	28.63	hours		
5	Taxiways	Grading	Grader	Diesel	28632.50 SY	8 Hours per 8000.00 SY	28.63	hours		
5	Taxiways	Grading	Roller	Diesel	28632.50 SY	8 Hours per 8000.00 SY	28.63	hours		
5	Taxiways	Hydroseec	Hydroseeder	Diesel	257950.00 SF	8 Hours per 80000.00 SF	25.8	hours		
5	Taxiways	Hydroseec	Off-Road Truck	Diesel	257950.00 SF	8 Hours per 80000.00 SF	25.8	hours		
5	Taxiways	Lighting	Dump Truck	Diesel	4870.00 LF	8 Hours per 1200.00 LF	32.47	hours		
5	Taxiways	Lighting	Loader	Diesel	4870.00 LF	8 Hours per 1200.00 LF	32.47	hours		
5	Taxiways	Lighting	Other General Equipment	Diesel	4870.00 LF	8 Hours per 1200.00 LF	32.47	hours		
5	Taxiways	Lighting	Pickup Truck	Diesel	4870.00 LF	8 Hours per 1200.00 LF	32.47	hours		
5	Taxiways	Lighting	Skid Steer Loader	Diesel	4870.00 LF	8 Hours per 1200.00 LF	32.47	hours		
5	Taxiways	Lighting	Tractors/Loader/Backhoe	Diesel	4870.00 LF	8 Hours per 1200.00 LF	32.47	hours		
5	Taxiways	Markings	Flatbed Truck	Diesel	233500.00 SF	8 Hours per 3500.00 SF	533.71	hours		
5	Taxiways	Markings	Other General Equipment	Diesel	233500.00 SF	8 Hours per 3500.00 SF	533.71	hours		
5	Taxiways	Markings	Pickup Truck	Diesel	233500.00 SF	8 Hours per 3500.00 SF	533.71	hours		
5	Taxiways	Soil Erosio	Other General Equipment	Diesel	5.90 Acre	4 Hours per 1.00 Acre	23.6	hours		
5	Taxiways	Soil Erosio	Pickup Truck	Diesel	5.90 Acre	8 Hours per 1.00 Acre	47.2	hours		
5	Taxiways	Soil Erosio	Pumps	Diesel	5.90 Acre	4 Hours per 1.00 Acre	23.6	hours		
5	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Diesel	5.90 Acre	4 Hours per 1.00 Acre	23.6	hours		
5	Taxiways	Subbase P	Dozer	Diesel	25918.50 SY	8 Hours per 3800.00 SY	54.57	hours		
5	Taxiways	Subbase P	Dump Truck (12 cy)	Diesel	8639.50 CY	8 Hours per 180.00 CY	383.98	hours		
5	Taxiways	Subbase P	Pickup Truck	Diesel	25918.50 SY	8 Hours per 3800.00 SY	54.57	hours		
5	Taxiways	Subbase P	Roller	Diesel	8639.50 CY	8 Hours per 1300.00 CY	53.17	hours		
5	Taxiways	Topsoil Pla	Dozer	Diesel	4772.10 CY	8 Hours per 600.00 CY	63.63	hours		
5	Taxiways	Topsoil Pla	Dump Truck	Diesel	4772.10 CY	8 Hours per 600.00 CY	63.63	hours		
5	Taxiways	Topsoil Pla	Pickup Truck	Diesel	4772.10 CY	8 Hours per 600.00 CY	63.63	hours		

6	Taxiways	Asphalt Pl	Asphalt Paver	Diesel	24475.50 SY	8 Hours per 6400.00 SY	30.59 hours	
6	Taxiways	Asphalt Pl	Dump Truck	Diesel	24475.50 SY	8 Hours per 1777.00 SY	110.19 hours	
6	Taxiways	Asphalt Pl	Other General Equipment	Diesel	24475.50 SY	16 Hours per 6400.00 SY	61.19 hours	
6	Taxiways	Asphalt Pl	Pickup Truck	Diesel	24475.50 SY	8 Hours per 6400.00 SY	30.59 hours	
6	Taxiways	Asphalt Pl	Roller	Diesel	24475.50 SY	8 Hours per 6400.00 SY	30.59 hours	
6	Taxiways	Asphalt Pl	Skid Steer Loader	Diesel	24475.50 SY	8 Hours per 6400.00 SY	30.59 hours	
6	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	24475.50 SY	8 Hours per 5000.00 SY	39.16 hours	
6	Taxiways	Clearing a	Chain Saw	Diesel	5.60 Acre	12 Hours per 1.00 Acre	67.2 hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
6	Taxiways	Clearing a	Chipper/Stump Grinder	Diesel	5.60 Acre	12 Hours per 1.00 Acre	67.2 hours	
6	Taxiways	Clearing a	Pickup Truck	Diesel	5.60 Acre	16 Hours per 1.00 Acre	89.6 hours	
6	Taxiways	Concrete F	Air Compressor	Diesel	10198.10 CY	8 Hours per 1000.00 CY	81.58 hours	
6	Taxiways	Concrete F	Concrete Saws	Diesel	10198.10 CY	8 Hours per 1000.00 CY	81.58 hours	
6	Taxiways	Concrete F	Concrete Truck	Diesel	10198.10 CY	8 Hours per 240.00 CY	339.94 hours	
6	Taxiways	Concrete F	Other General Equipment	Diesel	10198.10 CY	16 Hours per 1000.00 CY	163.17 hours	
6	Taxiways	Concrete F	Pickup Truck	Diesel	10198.10 CY	24 Hours per 1000.00 CY	244.75 hours	
6	Taxiways	Concrete F	Rubber Tired Loader	Diesel	10198.10 CY	8 Hours per 1000.00 CY	81.58 hours	
6	Taxiways	Concrete F	Slip Form Paver	Diesel	10198.10 CY	8 Hours per 1000.00 CY	81.58 hours	
6	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Diesel	10198.10 CY	8 Hours per 1000.00 CY	81.58 hours	
6	Taxiways	Drainage -	Dozer	Diesel	2215.00 LF	8 Hours per 250.00 LF	70.88 hours	
6	Taxiways	Drainage -	Dump Truck	Diesel	2215.00 LF	8 Hours per 250.00 LF	70.88 hours	
6	Taxiways	Drainage -	Excavator	Diesel	2215.00 LF	8 Hours per 250.00 LF	70.88 hours	
6	Taxiways	Drainage -	Loader	Diesel	2215.00 LF	8 Hours per 250.00 LF	70.88 hours	
6	Taxiways	Drainage -	Other General Equipment	Diesel	2215.00 LF	8 Hours per 250.00 LF	70.88 hours	
6	Taxiways	Drainage -	Pickup Truck	Diesel	2215.00 LF	8 Hours per 250.00 LF	70.88 hours	
6	Taxiways	Drainage -	Roller	Diesel	2215.00 LF	8 Hours per 250.00 LF	70.88 hours	
6	Taxiways	Drainage -	Dump Truck	Diesel	4430.00 LF	8 Hours per 900.00 LF	39.38 hours	
6	Taxiways	Drainage -	Loader	Diesel	4430.00 LF	8 Hours per 900.00 LF	39.38 hours	
6	Taxiways	Drainage -	Other General Equipment	Diesel	4430.00 LF	8 Hours per 900.00 LF	39.38 hours	
6	Taxiways	Drainage -	Pickup Truck	Diesel	4430.00 LF	8 Hours per 900.00 LF	39.38 hours	
6	Taxiways	Drainage -	Tractors/Loader/Backhoe	Diesel	4430.00 LF	8 Hours per 900.00 LF	39.38 hours	
6	Taxiways	Dust Contr	Water Truck	Diesel	360.00 Day	8 Hours per 1.00 Day	2880 hours	
6	Taxiways	Excavatior	Dozer	Diesel	10198.10 CY	8 Hours per 600.00 CY	135.97 hours	
6	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	10198.10 CY	8 Hours per 600.00 CY	135.97 hours	
6	Taxiways	Excavatior	Pickup Truck	Diesel	10198.10 CY	8 Hours per 600.00 CY	135.97 hours	
6	Taxiways	Excavatior	Roller	Diesel	10198.10 CY	8 Hours per 1300.00 CY	62.76 hours	
6	Taxiways	Excavatior	Dozer	Diesel	10198.10 CY	8 Hours per 800.00 CY	101.98 hours	
6	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	10198.10 CY	8 Hours per 300.00 CY	271.95 hours	
6	Taxiways	Excavatior	Excavator	Diesel	10198.10 CY	8 Hours per 1000.00 CY	81.58 hours	
6	Taxiways	Excavatior	Pickup Truck	Diesel	10198.10 CY	8 Hours per 1000.00 CY	81.58 hours	
6	Taxiways	Excavatior	Roller	Diesel	10198.10 CY	8 Hours per 1000.00 CY	81.58 hours	
6	Taxiways	Excavatior	Scraper	Diesel	10198.10 CY	8 Hours per 800.00 CY	101.98 hours	
6	Taxiways	Excavatior	Dozer	Diesel	24475.50 SY	8 Hours per 5100.00 SY	38.39 hours	
6	Taxiways	Fencing	Concrete Truck	Diesel	2205.00 LF	2 Hours per 180.00 LF	24.5 hours	
6	Taxiways	Fencing	Dump Truck	Diesel	2205.00 LF	8 Hours per 180.00 LF	98 hours	
6	Taxiways	Fencing	Other General Equipment	Diesel	2205.00 LF	8 Hours per 180.00 LF	98 hours	
6	Taxiways	Fencing	Pickup Truck	Diesel	2205.00 LF	8 Hours per 180.00 LF	98 hours	
6	Taxiways	Fencing	Skid Steer Loader	Diesel	2205.00 LF	8 Hours per 180.00 LF	98 hours	
6	Taxiways	Fencing	Tractors/Loader/Backhoe	Diesel	2205.00 LF	8 Hours per 180.00 LF	98 hours	
6	Taxiways	Grading	Dozer	Diesel	27045.20 SY	8 Hours per 8000.00 SY	27.05 hours	
6	Taxiways	Grading	Grader	Diesel	27045.20 SY	8 Hours per 8000.00 SY	27.05 hours	
6	Taxiways	Grading	Roller	Diesel	27045.20 SY	8 Hours per 8000.00 SY	27.05 hours	
6	Taxiways	Hydroseec	Hydroseeder	Diesel	243650.00 SF	8 Hours per 80000.00 SF	24.37 hours	
6	Taxiways	Hydroseec	Off-Road Truck	Diesel	243650.00 SF	8 Hours per 80000.00 SF	24.37 hours	
6	Taxiways	Lighting	Dump Truck	Diesel	4610.00 LF	8 Hours per 1200.00 LF	30.73 hours	
6	Taxiways	Lighting	Loader	Diesel	4610.00 LF	8 Hours per 1200.00 LF	30.73 hours	
6	Taxiways	Lighting	Other General Equipment	Diesel	4610.00 LF	8 Hours per 1200.00 LF	30.73 hours	
6	Taxiways	Lighting	Pickup Truck	Diesel	4610.00 LF	8 Hours per 1200.00 LF	30.73 hours	
6	Taxiways	Lighting	Skid Steer Loader	Diesel	4610.00 LF	8 Hours per 1200.00 LF	30.73 hours	
6	Taxiways	Lighting	Tractors/Loader/Backhoe	Diesel	4610.00 LF	8 Hours per 1200.00 LF	30.73 hours	
6	Taxiways	Markings	Flatbed Truck	Diesel	220500.00 SF	8 Hours per 3500.00 SF	504 hours	
6	Taxiways	Markings	Other General Equipment	Diesel	220500.00 SF	8 Hours per 3500.00 SF	504 hours	
6	Taxiways	Markings	Pickup Truck	Diesel	220500.00 SF	8 Hours per 3500.00 SF	504 hours	
6	Taxiways	Soil Erosio	Other General Equipment	Diesel	5.60 Acre	4 Hours per 1.00 Acre	22.4 hours	
6	Taxiways	Soil Erosio	Pickup Truck	Diesel	5.60 Acre	8 Hours per 1.00 Acre	44.8 hours	
6	Taxiways	Soil Erosio	Pumps	Diesel	5.60 Acre	4 Hours per 1.00 Acre	22.4 hours	
6	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Diesel	5.60 Acre	4 Hours per 1.00 Acre	22.4 hours	
6	Taxiways	Subbase P	Dozer	Diesel	24475.50 SY	8 Hours per 3800.00 SY	51.53 hours	
6	Taxiways	Subbase P	Dump Truck (12 cy)	Diesel	8158.50 CY	8 Hours per 180.00 CY	362.6 hours	
6	Taxiways	Subbase P	Pickup Truck	Diesel	24475.50 SY	8 Hours per 3800.00 SY	51.53 hours	
6	Taxiways	Subbase P	Roller	Diesel	8158.50 CY	8 Hours per 1300.00 CY	50.21 hours	
6	Taxiways	Topsoil Pla	Dozer	Diesel	4507.50 CY	8 Hours per 600.00 CY	60.1 hours	
6	Taxiways	Topsoil Pla	Dump Truck	Diesel	4507.50 CY	8 Hours per 600.00 CY	60.1 hours	
6	Taxiways	Topsoil Pla	Pickup Truck	Diesel	4507.50 CY	8 Hours per 600.00 CY	60.1 hours	

Activity: On-Road (Estimated based on engineering experience)

Scen	Project	Equipment	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Number of Employees Or $M*11 (Whic	Number of F	Project Lengt	Project Width	Project Area	Building Hei	Open Space	Number of T	Activity Size	Activity Rate	Default VMT	User VMT
1	Parking Structure - 160000 sqft- G+1 sto	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	--	--	160000	--	--	--	--	--	37000	
1	Parking Structure - 160000 sqft- G+1 sto	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	--	--	160000	--	--	--	--	--	19733	
1	Parking Structure - 160000 sqft- G+1 sto	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	418.033	129	--	--	--	--	--	--	--	--	1617788	
1	Parking Structure - 160000 sqft- G+1 sto	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	--	--	160000	--	--	--	--	0.001	1600	
2	Building - 100000 sqft- 10 stories	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	--	--	100000	--	--	--	--	--	23125	
2	Building - 100000 sqft- 10 stories	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	--	--	100000	--	--	--	--	--	12333	
2	Building - 100000 sqft- 10 stories	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	342.617	129	--	--	--	--	--	--	--	--	1325928	
2	Building - 100000 sqft- 10 stories	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	--	--	100000	--	--	--	--	0.0024	2400	
3	Access Road	Asphalt 18	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	558	40	--	--	--	--	--	--	324	
3	Access Road	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	558	40	--	--	--	--	--	--	5162	
3	Access Road	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	558	40	--	--	--	--	--	--	459	
3	Access Road	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	129	558	40	--	--	--	--	--	--	2753	
3	Access Road	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	134.233	129	--	--	--	--	--	--	--	--	519482	
4	Building - 10000 sqft- 1 story	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	65	--	--	10000	--	--	--	--	--	2313	
4	Building - 10000 sqft- 1 story	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	65	--	--	10000	--	--	--	--	--	1233	
4	Building - 10000 sqft- 1 story	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	149.985	65	--	--	--	--	--	--	--	--	292471	
4	Building - 10000 sqft- 1 story	Tractor Tra	Material Delivery	Diesel	Urban Unrestricted Access	40	--	65	--	--	10000	--	--	--	--	0.0016	160	
5	Taxiways	Asphalt 18	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	2335	100	--	--	--	--	--	--	3388	
5	Taxiways	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	2335	100	--	--	--	--	--	--	53997	
5	Taxiways	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	2335	100	--	--	--	--	--	--	4800	
5	Taxiways	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	2335	100	--	--	--	--	--	--	28798	
5	Taxiways	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	225.786	258	--	--	--	--	--	--	--	--	1747584	
6	Taxiways	Asphalt 18	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	2205	100	--	--	--	--	--	--	3199	
6	Taxiways	Cement M	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	2205	100	--	--	--	--	--	--	50991	
6	Taxiways	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	2205	100	--	--	--	--	--	--	4533	
6	Taxiways	Dump Truc	Material Delivery	Diesel	Urban Unrestricted Access	40	--	258	2205	100	--	--	--	--	--	--	27195	
6	Taxiways	Passenger	Employee Commute	Gasoline	Urban Unrestricted Access	30	73	258	--	--	--	--	--	--	--	--	565020	

Emission Factor: Non-Road (from NONROAD)

Scen	Project	Constructi	Equipment	Fuel Type	Avg Rated HP	Load Factor	CO (g/hp-hr)	NOx (g/hp-h	CO2 (g/hp-hr)	SO2 (g/hp-hr)	PM10 (g/hp-hr)	PM2.5 (g/hp	VOC Exhaust	VOC Evaporative (g/equipment-day)	
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Asphalt Paver	Diesel	175	0.59	0.14465341	0.292632	536.408885	0.00259114	0.011274042	0.0103721	0.1391838	0.0020364	
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Front Loader for Subgrade Materials	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Pa	Ten Wheelers- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Concrete Pump	Diesel	11	0.43	4.448654016	4.325679	588.584081	0.00396771	0.350596154	0.3225485	0.5891298	0.0006638	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Excavator	Diesel	175	0.59	0.141905878	0.281358	536.409013	0.00258869	0.010425735	0.0095917	0.1391316	0	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Front Loader	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Tractor Trailer- Stone Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Concrete F	Trencher for U/G Piping	Diesel	75	0.59	0.478727854	3.026157	595.724217	0.0029141	0.032268557	0.0296871	0.1427917	0.0046318	
1	Parking Structure - 160000 sqft- G+1 sto	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	40 Ton Rough Terrain Crane	Diesel	300	0.43	0.079700553	0.306296	530.620642	0.00256554	0.01103229	0.0101497	0.1392675	0.0060492	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Concrete Pump	Diesel	11	0.43	4.448654016	4.325679	588.584081	0.00396771	0.350596154	0.3225485	0.5891298	0.0006638	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Horizontal	Trowel Machines (2) machines	Diesel	600	0.59	0.292140918	0.684013	536.389251	0.00269028	0.036034894	0.0331521	0.1456617	0.2091874	
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Forklift	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	High Lift	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Lights and	Trencher	Diesel	75	0.59	0.478727854	3.026157	595.724217	0.0029141	0.032268557	0.0296871	0.1427917	0.0046318	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	40 Ton Rough Terrain Crane	Diesel	300	0.43	0.079700553	0.306296	530.620642	0.00256554	0.01103229	0.0101497	0.1392675	0.0060492	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Grout Mixer	Diesel	600	0.59	0.292140918	0.684013	536.389251	0.00269028	0.036034894	0.0331521	0.1456617	0.2091874	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Man Lift	Diesel	75	0.21	1.729270559	3.454581	695.054199	0.00370096	0.177701492	0.1634854	0.3117477	0.049204	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Parapet W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Security &	High Lift	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
1	Parking Structure - 160000 sqft- G+1 sto	Security &	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/I	Front Loader	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/I	Tractor Trailer- Topsoil & Seed	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Site Prep/I	Tractor Trailer with Boom Hoist- Curbs De	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
1	Parking Structure - 160000 sqft- G+1 sto	Structural	90 Ton Crane	Diesel	300	0.43	0.079700553	0.306296	530.620642	0.00256554	0.01103229	0.0101497	0.1392675	0.0060492	
1	Parking Structure - 160000 sqft- G+1 sto	Structural	Concrete Pump	Diesel	11	0.43	4.448654016	4.325679	588.584081	0.00396771	0.350596154	0.3225485	0.5891298	0.0006638	
1	Parking Structure - 160000 sqft- G+1 sto	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Concrete F	Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
2	Building - 100000 sqft- 10 stories	Concrete F	Concrete Pump	Diesel	11	0.43	4.448654016	4.325679	588.584081	0.00396771	0.350596154	0.3225485	0.5891298	0.0006638	
2	Building - 100000 sqft- 10 stories	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Concrete F	Excavator	Diesel	175	0.59	0.141905878	0.281358	536.409013	0.00258869	0.010425735	0.0095917	0.1391316	0	
2	Building - 100000 sqft- 10 stories	Concrete F	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
2	Building - 100000 sqft- 10 stories	Concrete F	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Exterior W	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
2	Building - 100000 sqft- 10 stories	Exterior W	Generator	Diesel	40	0.43	0.32078711	3.182422	589.88533	0.00295107	0.052992342	0.048753	0.1595976	0.0039765	
2	Building - 100000 sqft- 10 stories	Exterior W	Grout Mixer	Diesel	600	0.59	0.292140918	0.684013	536.389251	0.00269028	0.036034894	0.0331521	0.1456617	0.2091874	
2	Building - 100000 sqft- 10 stories	Exterior W	Grout Wheel Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Exterior W	Man Lift	Diesel	75	0.21	1.729270559	3.454581	695.054199	0.00370096	0.177701492	0.1634854	0.3117477	0.049204	
2	Building - 100000 sqft- 10 stories	Exterior W	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Exterior W	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.079700553	0.306296	530.620642	0.00256554	0.01103229	0.0101497	0.1392675	0.0060492	
2	Building - 100000 sqft- 10 stories	Interior Bu	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
2	Building - 100000 sqft- 10 stories	Interior Bu	Man Lift	Diesel	75	0.21	1.729270559	3.454581	695.054199	0.00370096	0.177701492	0.1634854	0.3117477	0.049204	
2	Building - 100000 sqft- 10 stories	Interior Bu	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Roofing	High Lift	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
2	Building - 100000 sqft- 10 stories	Roofing	Man Lift	Diesel	75	0.21	1.729270559	3.454581	695.054199	0.00370096	0.177701492	0.1634854	0.3117477	0.049204	
2	Building - 100000 sqft- 10 stories	Roofing	Material Deliveries	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Roofing	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.079700553	0.306296	530.620642	0.00256554	0.01103229	0.0101497	0.1392675	0.0060492	
2	Building - 100000 sqft- 10 stories	Security &	High Lift	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
2	Building - 100000 sqft- 10 stories	Security &	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Structural	90 Ton Crane	Diesel	300	0.43	0.079700553	0.306296	530.620642	0.00256554	0.01103229	0.0101497	0.1392675	0.0060492	
2	Building - 100000 sqft- 10 stories	Structural	Concrete Pump	Diesel	11	0.43	4.448654016	4.325679	588.584081	0.00396771	0.350596154	0.3225485	0.5891298	0.0006638	
2	Building - 100000 sqft- 10 stories	Structural	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Structural	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
2	Building - 100000 sqft- 10 stories	Structural	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
2	Building - 100000 sqft- 10 stories	Structural	Trowel Machine	Diesel	600	0.59	0.292140918	0.684013	536.389251	0.00269028	0.036034894	0.0331521	0.1456617	0.2091874	
2	Building - 100000 sqft- 10 stories	Structural	Truck Tower (Mantiwoc type)	Diesel	300	0.43	0.079700553	0.306296	530.620642	0.00256554	0.01103229	0.0101497	0.1392675	0.0060492	
3	Access Road	Asphalt Pl	Asphalt Paver	Diesel	175	0.59	0.14465341	0.292632	536.408885	0.00259114	0.011274042	0.0103721	0.1391838	0.0020364	
3	Access Road	Asphalt Pl	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Asphalt Pl	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Asphalt Pl	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Asphalt Pl	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
3	Access Road	Asphalt Pl	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805	
3	Access Road	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355501734	4.461287	594.730485	0.00400921	0.35413406	0.3258033	0.4708179	0	
3	Access Road	Clearing a	Chain Saw	Diesel	11	0.7	293.5349897	1.322993	685.996412	0.14019156	9.748189127	8.968334	61.888355	25.002037	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Access Road	Clearing a	Chipper/Stump Grinder	Diesel	100	0.43	0.71462969	1.103392	589.802758	0.00305057	0.096162457	0.0884695	0.1868554	0.1077757	
3	Access Road	Clearing a	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Concrete F	Air Compressor	Diesel	100	0.43	0.3203176	0.387615	589.938418	0.00287522	0.02036683	0.0187375	0.1420695	0.0105914	
3	Access Road	Concrete F	Concrete Saws	Diesel	40	0.59	0.251007012	3.014514	595.735298	0.00287509	0.022094501	0.0203269	0.1391255	0	
3	Access Road	Concrete F	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Concrete F	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Concrete F	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Concrete F	Rubber Tired Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
3	Access Road	Concrete F	Slip Form Paver	Diesel	175	0.59	0.14465341	0.292632	536.408885	0.00259114	0.011274042	0.0103721	0.1391838	0.0020364	
3	Access Road	Concrete F	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355501734	4.461287	594.730485	0.00400921	0.35413406	0.3258033	0.4708179	0	
3	Access Road	Curbing	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Curbing	Curb/Gutter Paver	Diesel	175	0.59	0.14465341	0.292632	536.408885	0.00259114	0.011274042	0.0103721	0.1391838	0.0020364	
3	Access Road	Curbing	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Curbing	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Drainage -	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
3	Access Road	Drainage -	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Drainage -	Excavator	Diesel	175	0.59	0.141905878	0.281358	536.409013	0.00258869	0.010425735	0.0095917	0.1391316	0	
3	Access Road	Drainage -	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
3	Access Road	Drainage -	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Drainage -	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Drainage -	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
3	Access Road	Drainage -	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Drainage -	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
3	Access Road	Drainage -	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Drainage -	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Drainage -	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
3	Access Road	Dust Contr	Water Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
3	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Excavatior	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Excavatior	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
3	Access Road	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
3	Access Road	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Excavatior	Excavator	Diesel	175	0.59	0.141905878	0.281358	536.409013	0.00258869	0.010425735	0.0095917	0.1391316	0	
3	Access Road	Excavatior	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Excavatior	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
3	Access Road	Excavatior	Scraper	Diesel	600	0.59	0.163133858	0.349948	536.407336	0.00260565	0.014421679	0.0132679	0.1396841	0.0443868	
3	Access Road	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
3	Access Road	Fencing	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Fencing	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Fencing	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Fencing	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Fencing	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805	
3	Access Road	Fencing	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
3	Access Road	Grading	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
3	Access Road	Grading	Grader	Diesel	300	0.59	0.119891853	0.283229	536.409124	0.00258869	0.01037796	0.0095477	0.139091	0	
3	Access Road	Grading	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
3	Access Road	Hydroseec	Hydroseeder	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Hydroseec	Off-Road Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Markings	Flatbed Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Markings	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Markings	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Sidewalks	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Sidewalks	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Sidewalks	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Sidewalks	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
3	Access Road	Sidewalks	Vibratory Compactor	Diesel	6	0.43	4.460978733	4.319866	588.587298	0.00396774	0.350337976	0.3223109	0.5880866	9.93427E-05	
3	Access Road	Soil Erosio	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Soil Erosio	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Soil Erosio	Pumps	Diesel	11	0.43	4.448654016	4.325679	588.584081	0.00396771	0.350596154	0.3225485	0.5891298	0.0006638	
3	Access Road	Soil Erosio	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
3	Access Road	Street Ligh	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Street Ligh	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
3	Access Road	Street Ligh	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Street Ligh	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Street Ligh	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805	
3	Access Road	Street Ligh	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
3	Access Road	Subbase P	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
3	Access Road	Subbase P	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Subbase P	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Subbase P	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
3	Access Road	Topsoil Pla	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
3	Access Road	Topsoil Pla	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Topsoil Pla	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Tree Plant	Flatbed Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Tree Plant	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
3	Access Road	Tree Plant	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
3	Access Road	Tree Plant	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
4	Building - 10000 sqft- 1 story	Concrete F	Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
4	Building - 10000 sqft- 1 story	Concrete F	Concrete Ready Mix Trucks	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Concrete F	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
4	Building - 10000 sqft- 1 story	Concrete F	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Concrete F	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Constructi	Survey Crew Trucks	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Constructi	Tractor Trailers Temp Fac.	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Exterior W	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
4	Building - 10000 sqft- 1 story	Exterior W	Man Lift	Diesel	75	0.21	1.729270559	3.454581	695.054199	0.00370096	0.177701492	0.1634854	0.3117477	0.049204	
4	Building - 10000 sqft- 1 story	Exterior W	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Exterior W	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Interior Bu	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
4	Building - 10000 sqft- 1 story	Interior Bu	Man Lift	Diesel	75	0.21	1.729270559	3.454581	695.054199	0.00370096	0.177701492	0.1634854	0.3117477	0.049204	
4	Building - 10000 sqft- 1 story	Interior Bu	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Interior Bu	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Roofing	High Lift	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
4	Building - 10000 sqft- 1 story	Roofing	Man Lift (Fascia Construction)	Diesel	75	0.21	1.729270559	3.454581	695.054199	0.00370096	0.177701492	0.1634854	0.3117477	0.049204	
4	Building - 10000 sqft- 1 story	Roofing	Material Deliveries	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Roofing	Tractor Trailer- Material Delivery	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Security &	High Lift	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
4	Building - 10000 sqft- 1 story	Security &	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Structural	40 Ton Crane	Diesel	300	0.43	0.079700553	0.306296	530.620642	0.00256554	0.01103229	0.0101497	0.1392675	0.0060492	
4	Building - 10000 sqft- 1 story	Structural	Fork Truck	Diesel	100	0.59	0.395099282	0.281446	595.734822	0.00287509	0.010439953	0.0096048	0.1392763	0	
4	Building - 10000 sqft- 1 story	Structural	Tool Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
4	Building - 10000 sqft- 1 story	Structural	Tractor Trailer- Steel Deliveries	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Asphalt Pl	Asphalt Paver	Diesel	175	0.59	0.14465341	0.292632	536.408885	0.00259114	0.011274042	0.0103721	0.1391838	0.0020364	
5	Taxiways	Asphalt Pl	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Asphalt Pl	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
5	Taxiways	Asphalt Pl	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Asphalt Pl	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
5	Taxiways	Asphalt Pl	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805	
5	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355501734	4.461287	594.730485	0.00400921	0.35413406	0.3258033	0.4708179	0	
5	Taxiways	Clearing a	Chain Saw	Diesel	11	0.7	293.5349897	1.322993	685.996412	0.14019156	9.748189127	8.968334	61.888355	25.002037	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
5	Taxiways	Clearing a	Chipper/Stump Grinder	Diesel	100	0.43	0.71462969	1.103392	589.802758	0.00305057	0.096162457	0.0884695	0.1868554	0.1077757	
5	Taxiways	Clearing a	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Concrete F	Air Compressor	Diesel	100	0.43	0.3203176	0.387615	589.938418	0.00287522	0.02036683	0.0187375	0.1420695	0.0105914	
5	Taxiways	Concrete F	Concrete Saws	Diesel	40	0.59	0.251007012	3.014514	595.735298	0.00287509	0.022094501	0.0203269	0.1391255	0	
5	Taxiways	Concrete F	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Concrete F	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
5	Taxiways	Concrete F	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Concrete F	Rubber Tired Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
5	Taxiways	Concrete F	Slip Form Paver	Diesel	175	0.59	0.14465341	0.292632	536.408885	0.00259114	0.011274042	0.0103721	0.1391838	0.0020364	
5	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355501734	4.461287	594.730485	0.00400921	0.35413406	0.3258033	0.4708179	0	
5	Taxiways	Drainage -	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
5	Taxiways	Drainage -	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Drainage -	Excavator	Diesel	175	0.59	0.141905878	0.281358	536.409013	0.00258869	0.010425735	0.0095917	0.1391316	0	
5	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
5	Taxiways	Drainage -	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
5	Taxiways	Drainage -	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Drainage -	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
5	Taxiways	Drainage -	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
5	Taxiways	Drainage -	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
5	Taxiways	Drainage -	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Drainage -	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
5	Taxiways	Dust Contr	Water Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
5	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Excavatior	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Excavatior	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
5	Taxiways	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
5	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Excavatior	Excavator	Diesel	175	0.59	0.141905878	0.281358	536.409013	0.00258869	0.010425735	0.0095917	0.1391316	0	
5	Taxiways	Excavatior	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Excavatior	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
5	Taxiways	Excavatior	Scraper	Diesel	600	0.59	0.163133858	0.349948	536.407336	0.00260565	0.014421679	0.0132679	0.1396841	0.0443868	
5	Taxiways	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
5	Taxiways	Fencing	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Fencing	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Fencing	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
5	Taxiways	Fencing	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Fencing	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805	
5	Taxiways	Fencing	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
5	Taxiways	Grading	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
5	Taxiways	Grading	Grader	Diesel	300	0.59	0.119891853	0.283229	536.409124	0.00258869	0.01037796	0.0095477	0.139091	0	
5	Taxiways	Grading	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
5	Taxiways	Hydroseec	Hydroseeder	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Hydroseec	Off-Road Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Lighting	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Lighting	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
5	Taxiways	Lighting	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
5	Taxiways	Lighting	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Lighting	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805	
5	Taxiways	Lighting	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
5	Taxiways	Markings	Flatbed Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Markings	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
5	Taxiways	Markings	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Soil Erosio	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
5	Taxiways	Soil Erosio	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Soil Erosio	Pumps	Diesel	11	0.43	4.448654016	4.325679	588.584081	0.00396771	0.350596154	0.3225485	0.5891298	0.0006638	
5	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757	
5	Taxiways	Subbase P	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
5	Taxiways	Subbase P	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Subbase P	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Subbase P	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
5	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
5	Taxiways	Topsoil Pla	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
5	Taxiways	Topsoil Pla	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
6	Taxiways	Asphalt Pl	Asphalt Paver	Diesel	175	0.59	0.14465341	0.292632	536.408885	0.00259114	0.011274042	0.0103721	0.1391838	0.0020364	
6	Taxiways	Asphalt Pl	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
6	Taxiways	Asphalt Pl	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
6	Taxiways	Asphalt Pl	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
6	Taxiways	Asphalt Pl	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917	
6	Taxiways	Asphalt Pl	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805	
6	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355501734	4.461287	594.730485	0.00400921	0.35413406	0.3258033	0.4708179	0	
6	Taxiways	Clearing a	Chain Saw	Diesel	11	0.7	293.5349897	1.322993	685.996412	0.14019156	9.748189127	8.968334	61.888355	25.002037	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
6	Taxiways	Clearing a	Chipper/Stump Grinder	Diesel	100	0.43	0.71462969	1.103392	589.802758	0.00305057	0.096162457	0.0884695	0.1868554	0.1077757	
6	Taxiways	Clearing a	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
6	Taxiways	Concrete F	Air Compressor	Diesel	100	0.43	0.3203176	0.387615	589.938418	0.00287522	0.02036683	0.0187375	0.1420695	0.0105914	
6	Taxiways	Concrete F	Concrete Saws	Diesel	40	0.59	0.251007012	3.014514	595.735298	0.00287509	0.022094501	0.0203269	0.1391255	0	
6	Taxiways	Concrete F	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
6	Taxiways	Concrete F	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	
6	Taxiways	Concrete F	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
6	Taxiways	Concrete F	Rubber Tired Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
6	Taxiways	Concrete F	Slip Form Paver	Diesel	175	0.59	0.14465341	0.292632	536.408885	0.00259114	0.011274042	0.0103721	0.1391838	0.0020364	
6	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Diesel	25	0.59	2.355501734	4.461287	594.730485	0.00400921	0.35413406	0.3258033	0.4708179	0	
6	Taxiways	Drainage -	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0	
6	Taxiways	Drainage -	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0	
6	Taxiways	Drainage -	Excavator	Diesel	175	0.59	0.141905878	0.281358	536.409013	0.00258869	0.010425735	0.0095917	0.1391316	0	
6	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151	
6	Taxiways	Drainage -	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481	

6	Taxiways	Drainage -	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Drainage -	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917
6	Taxiways	Drainage -	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151
6	Taxiways	Drainage -	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481
6	Taxiways	Drainage -	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Drainage -	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757
6	Taxiways	Dust Contr	Water Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0
6	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Excavatior	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Excavatior	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917
6	Taxiways	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0
6	Taxiways	Excavatior	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Excavatior	Excavator	Diesel	175	0.59	0.141905878	0.281358	536.409013	0.00258869	0.010425735	0.0095917	0.1391316	0
6	Taxiways	Excavatior	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Excavatior	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917
6	Taxiways	Excavatior	Scraper	Diesel	600	0.59	0.163133858	0.349948	536.407336	0.00260565	0.014421679	0.0132679	0.1396841	0.0443868
6	Taxiways	Excavatior	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0
6	Taxiways	Fencing	Concrete Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Fencing	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Fencing	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481
6	Taxiways	Fencing	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Fencing	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805
6	Taxiways	Fencing	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757
6	Taxiways	Grading	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0
6	Taxiways	Grading	Grader	Diesel	300	0.59	0.119891853	0.283229	536.409124	0.00258869	0.01037796	0.0095477	0.139091	0
6	Taxiways	Grading	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917
6	Taxiways	Hydroseec	Hydroseeder	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Hydroseec	Off-Road Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Lighting	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Lighting	Loader	Diesel	175	0.59	0.148387832	0.301625	536.408384	0.00259396	0.012378984	0.0113887	0.139357	0.004151
6	Taxiways	Lighting	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481
6	Taxiways	Lighting	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Lighting	Skid Steer Loader	Diesel	75	0.21	1.826170815	3.451268	695.026741	0.00369905	0.206957218	0.1904006	0.3208086	0.1226805
6	Taxiways	Lighting	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757
6	Taxiways	Markings	Flatbed Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Markings	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481
6	Taxiways	Markings	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Soil Erosio	Other General Equipment	Diesel	175	0.43	0.112553187	0.33962	530.617729	0.00257768	0.014594846	0.0134273	0.1402359	0.0096481
6	Taxiways	Soil Erosio	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Soil Erosio	Pumps	Diesel	11	0.43	4.448654016	4.325679	588.584081	0.00396771	0.350596154	0.3225485	0.5891298	0.0006638
6	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Diesel	100	0.21	1.413398177	0.881754	695.32397	0.00351379	0.133816076	0.1231108	0.2227044	0.1332757
6	Taxiways	Subbase P	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0
6	Taxiways	Subbase P	Dump Truck (12 cy)	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Subbase P	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Subbase P	Roller	Diesel	100	0.59	0.410501576	0.306347	595.734503	0.00288095	0.013357733	0.0122891	0.1394028	0.0026917
6	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	0.141598563	0.284007	536.409155	0.00258869	0.010357608	0.009529	0.1390737	0
6	Taxiways	Topsoil Pla	Dump Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0
6	Taxiways	Topsoil Pla	Pickup Truck	Diesel	600	0.59	0.141912898	0.281359	536.408996	0.00258869	0.010427295	0.0095931	0.1391329	0

Emission Factors: On-Road (from MOVES)

Scer	Project Type	Equipmen	Fuel Type	Roadway Type	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi)	PM2.5(g/mi)	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/veh-	RV NOx(g/vel	RV CO2(g/vel	RV SO2(g/vel	RV PM10(g/v	RV PM2.5(g/	RV VOC(g/vel	RP VOC(g/veh-day)
1	Parking Structure - 160000 sqft- G+1 sto	Cement M	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
1	Parking Structure - 160000 sqft- G+1 sto	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
1	Parking Structure - 160000 sqft- G+1 sto	Passenger	Gasoline	Urban Unrestricted Access	2.040050047	0.083531844	346.2059667	0.004856	0.00423318	0.00389797	0.04895198	0.0046618	0.0016654	25.022375	1.3997243	272.14203	0.0038174	0.0320026	0.0294683	4.9920751	0.7210167
1	Parking Structure - 160000 sqft- G+1 sto	Tractor Tra	Diesel	Urban Unrestricted Access	0.51313358	1.682907687	2511.518451	0.017232	0.05046922	0.04895685	0.103802343	0.0724576	0.0034639	22.515874	0.3936169	296.46926	0.0020695	0.0083466	0.0080965	6.6994088	0
2	Building - 100000 sqft- 10 stories	Cement M	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
2	Building - 100000 sqft- 10 stories	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
2	Building - 100000 sqft- 10 stories	Passenger	Gasoline	Urban Unrestricted Access	2.040050047	0.083531844	346.2059667	0.004856	0.00423318	0.00389797	0.04895198	0.0046618	0.0016654	25.022375	1.3997243	272.14203	0.0038174	0.0320026	0.0294683	4.9920751	0.7210167
2	Building - 100000 sqft- 10 stories	Tractor Tra	Diesel	Urban Unrestricted Access	0.51313358	1.682907687	2511.518451	0.017232	0.05046922	0.04895685	0.103802343	0.0724576	0.0034639	22.515874	0.3936169	296.46926	0.0020695	0.0083466	0.0080965	6.6994088	0
3	Access Road	Asphalt 18	Diesel	Urban Unrestricted Access	0.51313358	1.682907687	2511.518451	0.017232	0.05046922	0.04895685	0.103802343	0.0724576	0.0034639	22.515874	0.3936169	296.46926	0.0020695	0.0083466	0.0080965	6.6994088	0
3	Access Road	Cement M	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
3	Access Road	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
3	Access Road	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
3	Access Road	Passenger	Gasoline	Urban Unrestricted Access	2.040050047	0.083531844	346.2059667	0.004856	0.00423318	0.00389797	0.04895198	0.0046618	0.0016654	25.022375	1.3997243	272.14203	0.0038174	0.0320026	0.0294683	4.9920751	0.7210167
4	Building - 10000 sqft- 1 story	Cement M	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
4	Building - 10000 sqft- 1 story	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
4	Building - 10000 sqft- 1 story	Passenger	Gasoline	Urban Unrestricted Access	2.040050047	0.083531844	346.2059667	0.004856	0.00423318	0.00389797	0.04895198	0.0046618	0.0016654	25.022375	1.3997243	272.14203	0.0038174	0.0320026	0.0294683	4.9920751	0.7210167
4	Building - 10000 sqft- 1 story	Tractor Tra	Diesel	Urban Unrestricted Access	0.51313358	1.682907687	2511.518451	0.017232	0.05046922	0.04895685	0.103802343	0.0724576	0.0034639	22.515874	0.3936169	296.46926	0.0020695	0.0083466	0.0080965	6.6994088	0
5	Taxiways	Asphalt 18	Diesel	Urban Unrestricted Access	0.51313358	1.682907687	2511.518451	0.017232	0.05046922	0.04895685	0.103802343	0.0724576	0.0034639	22.515874	0.3936169	296.46926	0.0020695	0.0083466	0.0080965	6.6994088	0
5	Taxiways	Cement M	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
5	Taxiways	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
5	Taxiways	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
5	Taxiways	Passenger	Gasoline	Urban Unrestricted Access	2.040050047	0.083531844	346.2059667	0.004856	0.00423318	0.00389797	0.04895198	0.0046618	0.0016654	25.022375	1.3997243	272.14203	0.0038174	0.0320026	0.0294683	4.9920751	0.7210167
6	Taxiways	Asphalt 18	Diesel	Urban Unrestricted Access	0.51313358	1.682907687	2511.518451	0.017232	0.05046922	0.04895685	0.103802343	0.0724576	0.0034639	22.515874	0.3936169	296.46926	0.0020695	0.0083466	0.0080965	6.6994088	0
6	Taxiways	Cement M	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
6	Taxiways	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
6	Taxiways	Dump Truc	Diesel	Urban Unrestricted Access	0.434423239	0.974176775	1376.842533	0.009439	0.02105056	0.02041978	0.076615956	0.0713297	0.0034639	23.255892	0.1444053	282.01427	0.0019506	0.0042625	0.0041348	0.5833552	0
6	Taxiways	Passenger	Gasoline	Urban Unrestricted Access	2.040050047	0.083531844	346.2059667	0.004856	0.00423318	0.00389797	0.04895198	0.0046618	0.0016654	25.022375	1.3997243	272.14203	0.0038174	0.0320026	0.0294683	4.9920751	0.7210167

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scer	Project	Fugitive Ty	Variable	Default Values	Units	User Value		
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Dr	A = Area of land affected = L x W x 0.0929	14864	m2		3.67	0.19451
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Dr	AR = Application rate of liquefied asphalt	1.811	l/m2			
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
1	Parking Structure - 160000 sqft- G+1 sto	Asphalt Dr	VOC = A x AR x VD x EF x D	11871.1	lbs			
1	Parking Structure - 160000 sqft- G+1 sto	Material N	sL = Road surface silt loading	0.1	g/m3			
1	Parking Structure - 160000 sqft- G+1 sto	Material N	Wt. = Mean vehicle weight	32	tons			
1	Parking Structure - 160000 sqft- G+1 sto	Material N	VMT = Vehicle miles traveled	3870	miles			
1	Parking Structure - 160000 sqft- G+1 sto	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	35.9	lbs			
1	Parking Structure - 160000 sqft- G+1 sto	Concrete N	V = Volume of asphalt = 0.111 x L x W x 1.2	7400	yd3			
1	Parking Structure - 160000 sqft- G+1 sto	Concrete N	PM10 = 0.037 x V	273.8	lbs			
1	Parking Structure - 160000 sqft- G+1 sto	Material N	s = Surface material silt content	0.043	fraction			
1	Parking Structure - 160000 sqft- G+1 sto	Material N	Wt. = Mean vehicle weight	32	tons			
1	Parking Structure - 160000 sqft- G+1 sto	Material N	VMT = Vehicle miles traveled	3970	miles			
1	Parking Structure - 160000 sqft- G+1 sto	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	108.7	lbs			
2	Building - 100000 sqft- 10 stories	Concrete N	V = Volume of asphalt = 0.111 x L x W x 1.2	4625	yd3			
2	Building - 100000 sqft- 10 stories	Concrete N	PM10 = 0.037 x V	171.1	lbs			
2	Building - 100000 sqft- 10 stories	Material N	sL = Road surface silt loading	0.1	g/m3			
2	Building - 100000 sqft- 10 stories	Material N	Wt. = Mean vehicle weight	32	tons			
2	Building - 100000 sqft- 10 stories	Material N	VMT = Vehicle miles traveled	3225	miles			
2	Building - 100000 sqft- 10 stories	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	29.9	lbs			
2	Building - 100000 sqft- 10 stories	Material N	s = Surface material silt content	0.043	fraction			
2	Building - 100000 sqft- 10 stories	Material N	Wt. = Mean vehicle weight	32	tons			
2	Building - 100000 sqft- 10 stories	Material N	VMT = Vehicle miles traveled	3325	miles			
2	Building - 100000 sqft- 10 stories	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	91.1	lbs			
3	Access Road	Asphalt Dr	A = Area of land affected = L x W x 0.0929	2073.5	m2			
3	Access Road	Asphalt Dr	AR = Application rate of liquefied asphalt	1.811	l/m2			
3	Access Road	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
3	Access Road	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
3	Access Road	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
3	Access Road	Asphalt Dr	VOC = A x AR x VD x EF x D	1656	lbs			
3	Access Road	Asphalt St	T = Mass of asphalt loaded = L x W x 0.166	269.8	tons			
3	Access Road	Asphalt St	PM10 = (0.027 + 0.00042) x T	7.397	lbs			
3	Access Road	Asphalt St	CO = (0.4 + 0.0004) x T	108	lbs			
3	Access Road	Asphalt St	NOx = (0.025) x T	6.744	lbs			
3	Access Road	Asphalt St	SOx = (0.0046) x T	1.241	lbs			
3	Access Road	Asphalt St	VOC = (0.0082 + 0.0042) x T	3.345	lbs			
3	Access Road	Material N	s = Surface material silt content	0.043	fraction			
3	Access Road	Material N	Wt. = Mean vehicle weight	32	tons			
3	Access Road	Material N	VMT = Vehicle miles traveled	2698	miles			
3	Access Road	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	73.9	lbs			
3	Access Road	Material N	sL = Road surface silt loading	0.1	g/m3			
3	Access Road	Material N	Wt. = Mean vehicle weight	32	tons			
3	Access Road	Material N	VMT = Vehicle miles traveled	2580	miles			
3	Access Road	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	23.9	lbs			
3	Access Road	Concrete N	V = Volume of asphalt = 0.111 x L x W x 1.2	1032.3	yd3			
3	Access Road	Concrete N	PM10 = 0.037 x V	38.2	lbs			
3	Access Road	Unstabiliz	A = Area affected = L x W / 43560.0	0.512	acres			
3	Access Road	Unstabiliz	TPConv = TSP/PM10 conversion	0.5	fraction			
3	Access Road	Unstabiliz	CE = Control efficiency	0.63	fraction			
3	Access Road	Unstabiliz	t = year (e.g. 0.65 year)	0.5	years			
3	Access Road	Unstabiliz	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2000	0	lbs			
3	Access Road	Soil Handl	u = Wind speed	5	mph			
3	Access Road	Soil Handl	m = Moisture content	0.25	fraction			
3	Access Road	Soil Handl	T = Mass of aggregate storage pile = L x W x	613.8	tons			
3	Access Road	Soil Handl	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] / [(m,	12.6	lbs			
4	Building - 10000 sqft- 1 story	Concrete N	V = Volume of asphalt = 0.111 x L x W x 1.2	462.5	yd3			
4	Building - 10000 sqft- 1 story	Concrete N	PM10 = 0.037 x V	17.1	lbs			
4	Building - 10000 sqft- 1 story	Material N	sL = Road surface silt loading	0.1	g/m3			
4	Building - 10000 sqft- 1 story	Material N	Wt. = Mean vehicle weight	32	tons			
4	Building - 10000 sqft- 1 story	Material N	VMT = Vehicle miles traveled	650	miles			
4	Building - 10000 sqft- 1 story	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	6.034	lbs			
4	Building - 10000 sqft- 1 story	Material N	s = Surface material silt content	0.043	fraction			
4	Building - 10000 sqft- 1 story	Material N	Wt. = Mean vehicle weight	32	tons			
4	Building - 10000 sqft- 1 story	Material N	VMT = Vehicle miles traveled	650	miles			
4	Building - 10000 sqft- 1 story	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	17.8	lbs			
5	Taxiways	Asphalt Dr	A = Area of land affected = L x W x 0.0929	21692.2	m2			
5	Taxiways	Asphalt Dr	AR = Application rate of liquefied asphalt	1.811	l/m2			
5	Taxiways	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
5	Taxiways	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
5	Taxiways	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
5	Taxiways	Asphalt Dr	VOC = A x AR x VD x EF x D	17324.5	lbs			
5	Taxiways	Asphalt St	T = Mass of asphalt loaded = L x W x 0.166	2822	tons			
5	Taxiways	Asphalt St	PM10 = (0.027 + 0.00042) x T	77.4	lbs			
5	Taxiways	Asphalt St	CO = (0.4 + 0.0004) x T	1129.9	lbs			
5	Taxiways	Asphalt St	NOx = (0.025) x T	70.6	lbs			
5	Taxiways	Asphalt St	SOx = (0.0046) x T	13	lbs			
5	Taxiways	Asphalt St	VOC = (0.0082 + 0.0042) x T	35	lbs			
5	Taxiways	Material N	s = Surface material silt content	0.043	fraction			
5	Taxiways	Material N	Wt. = Mean vehicle weight	32	tons			
5	Taxiways	Material N	VMT = Vehicle miles traveled	9844.9	miles			
5	Taxiways	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	269.6	lbs			
5	Taxiways	Material N	sL = Road surface silt loading	0.1	g/m3			
5	Taxiways	Material N	Wt. = Mean vehicle weight	32	tons			
5	Taxiways	Material N	VMT = Vehicle miles traveled	9030	miles			
5	Taxiways	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	83.8	lbs			
5	Taxiways	Concrete N	V = Volume of asphalt = 0.111 x L x W x 1.2	10799.4	yd3			
5	Taxiways	Concrete N	PM10 = 0.037 x V	399.6	lbs			
5	Taxiways	Unstabiliz	A = Area affected = L x W / 43560.0	5.36	acres			
5	Taxiways	Unstabiliz	TPConv = TSP/PM10 conversion	0.5	fraction			
5	Taxiways	Unstabiliz	CE = Control efficiency	0.63	fraction			
5	Taxiways	Unstabiliz	t = year (e.g. 0.65 year)	1	years			
5	Taxiways	Unstabiliz	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2000	0	lbs			
5	Taxiways	Soil Handl	u = Wind speed	5	mph			
5	Taxiways	Soil Handl	m = Moisture content	0.25	fraction			
5	Taxiways	Soil Handl	T = Mass of aggregate storage pile = L x W x	6421.3	tons			
5	Taxiways	Soil Handl	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] / [(m,	132.2	lbs			
6	Taxiways	Asphalt Dr	A = Area of land affected = L x W x 0.0929	20484.5	m2			
6	Taxiways	Asphalt Dr	AR = Application rate of liquefied asphalt	1.811	l/m2			
6	Taxiways	Asphalt Dr	VD = Volume fraction of diluent in liquefie	0.35	fraction			
6	Taxiways	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction			
6	Taxiways	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l			
6	Taxiways	Asphalt Dr	VOC = A x AR x VD x EF x D	16359.9	lbs			
6	Taxiways	Asphalt St	T = Mass of asphalt loaded = L x W x 0.166	2664.9	tons			
6	Taxiways	Asphalt St	PM10 = (0.027 + 0.00042) x T	73.1	lbs			
6	Taxiways	Asphalt St	CO = (0.4 + 0.0004) x T	1067	lbs			
6	Taxiways	Asphalt St	NOx = (0.025) x T	66.6	lbs			
6	Taxiways	Asphalt St	SOx = (0.0046) x T	12.3	lbs			
6	Taxiways	Asphalt St	VOC = (0.0082 + 0.0042) x T	33	lbs			
6	Taxiways	Material N	s = Surface material silt content	0.043	fraction			
6	Taxiways	Material N	Wt. = Mean vehicle weight	32	tons			
6	Taxiways	Material N	VMT = Vehicle miles traveled	9799.7	miles			
6	Taxiways	Material N	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	268.4	lbs			
6	Taxiways	Material N	sL = Road surface silt loading	0.1	g/m3			
6	Taxiways	Material N	Wt. = Mean vehicle weight	32	tons			
6	Taxiways	Material N	VMT = Vehicle miles traveled	9030	miles			
6	Taxiways	Material N	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	83.8	lbs			
6	Taxiways	Concrete N	V = Volume of asphalt = 0.111 x L x W x 1.2	10198.1	yd3			
6	Taxiways	Concrete N	PM10 = 0.037 x V	377.3	lbs			
6	Taxiways	Unstabiliz	A = Area affected = L x W / 43560.0	5.062	acres			
6	Taxiways	Unstabiliz	TPConv = TSP/PM10 conversion	0.5	fraction			
6	Taxiways	Unstabiliz	CE = Control efficiency	0.63	fraction			
6	Taxiways	Unstabiliz	t = year (e.g. 0.65 year)	1	years			
6	Taxiways	Unstabiliz	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2000	0	lbs			
6	Taxiways	Soil Handl	u = Wind speed	5	mph			
6	Taxiways	Soil Handl	m = Moisture content	0.25	fraction			
6	Taxiways	Soil Handl	T = Mass of aggregate storage pile = L x W x	6063.8	tons			
6	Taxiways	Soil Handl	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] / [(m,	124.8	lbs			

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ASSUMPTIONS

Emission factors were developed from the following models:

- On-Road Vehicles: MOVES 2010b, revised January 2013
- Non-Road Equipment: NONROAD2008a, July 2009

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:
- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:
- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)
- Excavator
- Excavator for U/G Services/Tanks
- Flat Bed or Dump Trucks
- Flatbed Truck
- Grader
- Grout Wheel Truck
- Hoist Equipment with 40 Ton Rig
- Hydralic Hammer
- Hydroseeder
- Line Painting Truck and Sprayer
- Material Deliveries
- Off-Road Truck
- Pickup Truck
- Scraper
- Seed Truck Spreader
- Small Dozer
- Survey Crew Trucks
- Ten Wheelers
- Ten Wheelers- Material Delivery
- Tool Truck
- Tractor Trailer- Equipment Delivery
- Tractor Trailer- Material Delivery
- Tractor Trailer- Steel Deliveries
- Tractor Trailer- Stone Delivery
- Tractor Trailer- Topsoil & Seed
- Tractor Trailer- Truck Delivery
- Tractor Trailer with Boom Hoist- Curbs Del & Place
- Tractor Trailer with Boom Hoist- Delivery
- Tractor Trailers- Rebar Deliveries
- Tractor Trailers Temp Fac.
- Truck for Topsoil & Seed Del&Spread
- Water Truck
- Excavator with Bucket
- Excavator with Hoe Ram

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Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/18/2026 8:47:01 AM

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STUDY

Study Name

DFW Terminal SEA

Study Description

Construction 2032

2032 DFW CTA Supplemental EA Construction Emissions

Non-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Construction Activity	Equipment	TEXN2.6 Equipment	TEXN2.6 Lookup	Fuel	HP Average	Load Factor	Hours of Activity	TEXN2.6 NONROAD Emission Factors (g/hp-hr) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	TEXN2.6 Nonroad Emissions (Tons Per Year) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2032	Taxiways	Asphalt Placement	Asphalt Paver	Pavers	Pavers175	Diesel	175	0.59	7.645125	0.32286	0.88150	0.00149	0.05753	0.05580	0.06194	0.00028	0.00077	0.00000	0.00005	0.00005	0.00005
1	2032	Taxiways	Asphalt Placement	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	27.53449634	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00052	0.00162	0.00001	0.00011	0.00011	0.00011
1	2032	Taxiways	Asphalt Placement	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	15.29025	0.16426	0.48771	0.00146	0.04106	0.03983	0.02959	0.00021	0.00062	0.00000	0.00005	0.00005	0.00004
1	2032	Taxiways	Asphalt Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	7.645125	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00014	0.00045	0.00000	0.00003	0.00003	0.00003
1	2032	Taxiways	Asphalt Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	7.645125	0.62091	1.27154	0.00181	0.10008	0.09708	0.06629	0.00031	0.00063	0.00000	0.00005	0.00005	0.00003
1	2032	Taxiways	Asphalt Placement	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	7.645125	0.15366	2.06473	0.00188	0.01486	0.01441	0.04103	0.00002	0.00027	0.00000	0.00000	0.00000	0.00001
1	2032	Taxiways	Asphalt Placement	Surfacing Equipment (Grooving)	Other Construction Equipment	Other Construction Equipment25	Diesel	25	0.59	9.78576	1.24705	3.16099	0.00233	0.14197	0.13771	0.29532	0.00020	0.00050	0.00000	0.00002	0.00002	0.00005
1	2032	Taxiways	Clearing and Grubbing	Chain Saw	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.7	16.8	1.75398	2.99064	0.00198	0.16936	0.16428	0.59860	0.00025	0.00043	0.00000	0.00002	0.00002	0.00009
1	2032	Taxiways	Clearing and Grubbing	Chipper/Stump Grinder	Other Construction Equipment	Other Construction Equipment100	Diesel	100	0.43	16.8	0.42721	1.07224	0.00174	0.06946	0.06738	0.03992	0.00034	0.00085	0.00000	0.00006	0.00005	0.00003
1	2032	Taxiways	Clearing and Grubbing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	22.4	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00042	0.00132	0.00001	0.00009	0.00009	0.00009
1	2032	Taxiways	Drainage - 24 inch SICPP	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	17.952	0.07702	0.23037	0.00134	0.01774	0.01720	0.01321	0.00016	0.00047	0.00000	0.00004	0.00004	0.00003
1	2032	Taxiways	Drainage - 24 inch SICPP	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	17.952	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00034	0.00105	0.00001	0.00007	0.00007	0.00007
1	2032	Taxiways	Drainage - 24 inch SICPP	Excavator	Excavators	Excavators175	Diesel	175	0.59	17.952	0.06215	0.19844	0.00140	0.01496	0.01451	0.01050	0.00013	0.00041	0.00000	0.00003	0.00003	0.00002
1	2032	Taxiways	Drainage - 24 inch SICPP	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	17.952	0.38947	0.73471	0.00128	0.07422	0.07199	0.09716	0.00080	0.00150	0.00000	0.00015	0.00015	0.00020
1	2032	Taxiways	Drainage - 24 inch SICPP	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	17.952	0.16426	0.48771	0.00146	0.04106	0.03983	0.02959	0.00024	0.00073	0.00000	0.00006	0.00006	0.00004
1	2032	Taxiways	Drainage - 24 inch SICPP	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	17.952	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00034	0.00105	0.00001	0.00007	0.00007	0.00007
1	2032	Taxiways	Drainage - 24 inch SICPP	Roller	Rollers	Rollers100	Diesel	100	0.59	17.952	0.62091	1.27154	0.00181	0.10008	0.09708	0.06629	0.00072	0.00148	0.00000	0.00012	0.00011	0.00008
1	2032	Taxiways	Drainage - 6 inch Perforated Underdrain	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	9.973333333	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00019	0.00059	0.00000	0.00004	0.00004	0.00004
1	2032	Taxiways	Drainage - 6 inch Perforated Underdrain	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	9.973333333	0.38947	0.73471	0.00128	0.07422	0.07199	0.09716	0.00044	0.00083	0.00000	0.00008	0.00008	0.00011
1	2032	Taxiways	Drainage - 6 inch Perforated Underdrain	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	9.973333333	0.16426	0.48771	0.00146	0.04106	0.03983	0.02959	0.00014	0.00040	0.00000	0.00003	0.00003	0.00002
1	2032	Taxiways	Drainage - 6 inch Perforated Underdrain	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	9.973333333	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00019	0.00059	0.00000	0.00004	0.00004	0.00004
1	2032	Taxiways	Drainage - 6 inch Perforated Underdrain	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	9.973333333	0.37868	0.94379	0.00198	0.05795	0.05621	0.05369	0.00009	0.00022	0.00000	0.00001	0.00001	0.00001
1	2032	Taxiways	Dust Control	Water Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	720	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.01350	0.04230	0.00034	0.00290	0.00281	0.00296
1	2032	Taxiways	Excavation (Borrow)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	33.97866667	0.07702	0.23037	0.00134	0.01774	0.01720	0.01321	0.00030	0.00089	0.00001	0.00007	0.00007	0.00005
1	2032	Taxiways	Excavation (Borrow)	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	33.97866667	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00064	0.00200	0.00002	0.00014	0.00013	0.00014
1	2032	Taxiways	Excavation (Borrow)	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	33.97866667	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00064	0.00200	0.00002	0.00014	0.00013	0.00014
1	2032	Taxiways	Excavation (Borrow)	Roller	Rollers	Rollers100	Diesel	100	0.59	15.68246154	0.62091	1.27154	0.00181	0.10008	0.09708	0.06629	0.00063	0.00130	0.00000	0.00010	0.00010	0.00007
1	2032	Taxiways	Excavation (Cut to Fill)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	25.484	0.07702	0.23037	0.00134	0.01774	0.01720	0.01321	0.00022	0.00067	0.00000	0.00005	0.00005	0.00004
1	2032	Taxiways	Excavation (Cut to Fill)	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	67.95733333	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00127	0.00399	0.00003	0.00027	0.00027	0.00028
1	2032	Taxiways	Excavation (Cut to Fill)	Excavator	Excavators	Excavators175	Diesel	175	0.59	20.3872	0.06215	0.19844	0.00140	0.01496	0.01451	0.01050	0.00014	0.00046	0.00000	0.00003	0.00003	0.00002
1	2032	Taxiways	Excavation (Cut to Fill)	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	20.3872	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00038	0.00120	0.00001	0.00008	0.00008	0.00008
1	2032	Taxiways	Excavation (Cut to Fill)	Roller	Rollers	Rollers100	Diesel	100	0.59	20.3872	0.62091	1.27154	0.00181	0.10008	0.09708	0.06629	0.00082	0.00169	0.00000	0.00013	0.00013	0.00009
1	2032	Taxiways	Excavation (Cut to Fill)	Scraper	Scrapers	Scrapers600	Diesel	600	0.59	25.484	0.13634	0.34895	0.00128	0.02296	0.02227	0.02201	0.00136	0.00347	0.00001	0.00023	0.00022	0.00022
1	2032	Taxiways	Excavation (Topsoil Stripping)	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	9.593882353	0.07702	0.23037	0.00134	0.01774	0.01720	0.01321	0.00008	0.00025	0.00000	0.00002	0.00002	0.00001
1	2032	Taxiways	Fencing	Concrete Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	6.122222222	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00011	0.00036	0.00000	0.00002	0.00002	0.00003
1	2032	Taxiways	Fencing	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24.48888889	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00046	0.00144	0.00001	0.00010	0.00010	0.00010
1	2032	Taxiways	Fencing	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	24.48888889	0.16426	0.48771	0.00146	0.04106	0.03983	0.02959	0.00033	0.00099	0.00000	0.00008	0.00008	0.00006
1	2032	Taxiways	Fencing	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	24.48888889	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00046	0.00144	0.00001	0.00010	0.00010	0.00010
1	2032	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	24.48888889	0.15366	2.06473	0.00188	0.01486	0.01441	0.04103	0.00007	0.00088	0.00000	0.00001	0.00001	0.00002
1	2032	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	24.48888889	0.37868	0.94379	0.00198	0.05795	0.05621	0.05369	0.00021	0.00054	0.00000	0.00003	0.00003	0.00003
1	2032	Taxiways	Grading	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	6.8498	0.07702	0.23037	0.00134	0.01774	0.01720	0.01321	0.00006	0.00018	0.00000	0.00001	0.00001	0.00001
1	2032	Taxiways	Grading	Grader	Graders	Graders300	Diesel	300	0.59	6.8498	0.17074	0.51273	0.00132	0.02739	0.02657	0.03943	0.00023	0.00069	0.00000	0.00004	0.00004	0.00005
1	2032	Taxiways	Grading	Roller	Rollers	Rollers100	Diesel	100	0.59	6.8498	0.62091	1.27154	0.00181	0.10008	0.09708	0.06629	0.00028	0.00057	0.00000	0.00004	0.00004	0.00003
1	2032	Taxiways	Hydroseeding	Hydroseeder	Other Construction Equipment	Other Construction Equipment600	Diesel	600	0.59	6.171	0.37620	0.83213	0.00144	0.05866	0.05690	0.05404	0.00091	0.00200	0.00000	0.00014	0.00014	0.00013
1	2032	Taxiways	Hydroseeding	Off-Road Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	6.171	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00012	0.00036	0.00000	0.00002	0.00002	0.00003
1	2032	Taxiways	Lighting	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	8.68	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00016	0.00051	0.00000	0.00003	0.00003	0.00004
1	2032	Taxiways	Lighting	Loader	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes175	Diesel	175	0.59	8.68	0.38947	0.73471	0.00128	0.07422	0.07199	0.09716	0.00038	0.00073	0.00000	0.00007	0.00007	0.00010
1	2032	Taxiways	Lighting	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	8.68	0.16426	0.48771	0.00146	0.04106	0.03983	0.02959	0.00012	0.00035	0.00000	0.00003	0.00003	0.00002
1	2032	Taxiways	Lighting	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	8.68	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00016	0.00051	0.00000	0.00003	0.00003	0.00004
1	2032	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders	Skid Steer Loaders75	Diesel	75	0.21	8.68	0.15366	2.06473	0.00188	0.01486	0.01441	0.04103	0.00002	0.00031	0.00000	0.00000	0.00000	0.00001
1	2032	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	8.68	0.37868	0.94379	0.00198	0.05795	0.05621	0.05369	0.00008	0.00019	0.00000	0.00001	0.00001	0.00001
1	2032	Taxiways	Markings	Flatbed Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	125.9428571	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00236	0.00740	0.00006	0.00051	0.00049	0.00052
1	2032	Taxiways	Markings	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	125.9428571	0.16426	0.48771	0.00146	0.04106	0.03983	0.02959	0.00172	0.00510	0.00002	0.00043	0.00042	0.00031
1	2032	Taxiways	Markings	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	125.9428571	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00236	0.00740	0.00006	0.00051	0.00049	0.00052
1	2032	Taxiways	Soil Erosion/Sediment Control	Other General Equipment	Other Construction Equipment	Other Construction Equipment175	Diesel	175	0.43	5.6	0.16426	0.48771	0.00146	0.04106	0.03983	0.02959	0.00008	0.00023	0.00000	0.00002	0.00002	0.00001
1	2032	Taxiways	Soil Erosion/Sediment Control	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	11.2	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00021	0.00066	0.00001	0.00005	0.00004	0.00005
1	2032	Taxiways	Soil Erosion/Sediment Control	Pumps	Other Construction Equipment	Other Construction Equipment11	Diesel	11	0.43	5.6	1.75398	2.99064	0.00198	0.16936	0.16428	0.59860	0.00005	0.00009	0.00000	0.00000	0.00000	0.00002
1	2032	Taxiways	Soil Erosion/Sediment Control	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes100	Diesel	100	0.21	5.6	0.37868	0.94379	0.00198	0.05795	0.05621	0.05369	0.00005	0.00012	0.00000	0.00001	0.00001	0.00001
1	2032	Taxiways	Subbase Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	12.876	0.07702	0.23037	0.00134	0.01774	0.01720	0.01321	0.00011	0.00034	0.00000	0.00003	0.00003	0.00002
1	2032	Taxiways	Subbase Placement	Dump Truck (12 cy)	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	90.60888889	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00170	0.00532	0.00004	0.00036	0.00035	0.00037
1	2032	Taxiways	Subbase Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	12.876	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00024	0.00076	0.00001	0.00005	0.00005	0.00005
1	2032	Taxiways	Subbase Placement	Roller	Rollers	Rollers100	Diesel	100	0.59	12.54584615	0.62091	1.27154	0.00181	0.10008	0.09708	0.06629	0.00051	0.00104	0.00000	0.00008	0.00008	0.00005
1	2032	Taxiways	Topsoil Placement	Dozer	Crawler Tractor/Dozers	Crawler Tractor/Dozers175	Diesel	175	0.59	15.22133333	0.07702	0.23037	0.00134	0.01774	0.01720	0.01321	0.00013	0.00040	0.00000	0.00003	0.00003	0.00002
1	2032	Taxiways	Topsoil Placement	Dump Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	15.22133333	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00029	0.00089	0.00001	0.00006	0.00006	0.00006
1	2032	Taxiways	Topsoil Placement	Pickup Truck	Off-highway Trucks	Off-highway Trucks600	Diesel	600	0.59	15.22133333	0.04804	0.15057	0.00121	0.01032	0.01001	0.01054	0.00029	0.00089	0.00001	0.00006	0.00006	0.00006
																TOTAL (Tons Per Year)	0.04	0.12	0.00	0.01	0.01	0.01

On-Road Sources

Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Equipment	Equipment Category	MOVES5 Onroad Lookup	On-road Activity	Fuel	Roadway Type	Round Trip Distance (miles)	Distance for fugitive PM	Number of Vehicles	Number of Employees Or $M*11	Number of Project Days	Project Length	Project Width	Project Area	Building Height (Building	Open Space Height (Building	Number of Trees	Activity Rate	VMT	MOVES5 Onroad Emission Factor (g/mile) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC	MOVES Onroad Emissions (Tons Per Year) CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1	2032	Taxiways	Asphalt 18 Wheeler	Combination Short-haul Truck	DieselUrban Unrestricted AccessCombination Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	65	551	100	--	--	--	--	--	799	2.82413	3.07888	0.00542	0.45589	0.15900	0.05371	0.00249	0.00271	0.00000	0.00040	0.00014	0.00005
1	2032	Taxiways	Dump Truck - Asphalt	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	1	--	65	551	100	--	--	--	--	--	1,133	0.90531	0.85713	0.00245	0.10628	0.03652	0.02468	0.00113	0.00107	0.00000	0.00013	0.00005	0.00003
1	2032	Taxiways	Dump Truck Subbase Material	Single Unit Short-haul Truck	DieselUrban Unrestricted AccessSingle Unit Short-haul Truck	Material Delivery	Diesel	Urban Unrest	40	5	2	--	65	551	100	--	--	--	--	--	6,796	0.90531	0.85713	0.00245	0.10628	0.03652	0.02468	0.00678	0.00642	0.00002	0.00080	0.00027	0.00018
1	2032	Taxiways	Passenger Car	Passenger Car	GasolineUrban Unrestricted AccessPassenger Car	Employee Commute	Gasoline	Urban Unrest	30	--	65	65	65	--	--	--	--	--	--	--	126,750	2.48458	0.02342	0.00219	0.02571	0.00749	0.04659	0.34714	0.00327	0.00031	0.00359	0.00105	0.00651
																											TOTAL (Tons Per Year)	0.358	0.013	0.000	0.005	0.002	0.007

Fugitive Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive Source Type	Number of Months	CO	NOx	SO_2	PM_{10}	VOC
1	2032	Taxiways	Asphalt Drying	3	0.00000	0.00000	0.00000	0.00000	0.06678
1	2032	Taxiways	Asphalt Storage and Batching	3	0.13330	0.00830	0.00153	0.00915	0.00413
1	2032	Taxiways	Material Movement (Paved Roads)	3	0.00000	0.00000	0.00000	0.00605	0.00000
1	2032	Taxiways	Material Movement (Unpaved Roads)	3	0.00000	0.00000	0.00000	0.02045	0.00000
1	2032	Taxiways	Soil Handling	3	0.00000	0.00000	0.00000	0.01560	0.00000
1	2032	Taxiways	Unstabilized Land and Wind Erosion	3	0.00000	0.00000	0.00000	0.00000	0.00000
				TOTAL (Tons Per Year)	0.133	0.008	0.002	0.051	0.071

Total Construction Emissions By Source

Emission Source	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
NonRoad	0.04	0.12	0.00	0.01	0.01	0.01
OnRoad	0.36	0.01	0.00	0.00	0.00	0.01
Fugitive	0.13	0.01	0.00	0.05	--	0.07
TOTAL (Tons Per Year)	0.53	0.14	0.00	0.06	0.01	0.09

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INPUT DATA AND SPECIFICATIONS

State/County
Texas
Dallas County

Scenarios

Scer	Year	Number of Season		Average Daily Temp (degF)	Max Daily Temp Change (degF)	Min Daily Temp Change (degF)
1	2032	3	Summer	T<=10	20 <= Change in T	20 <= Change in T
2						

Project Final Selections

Scer	Project	Constructi	Equipment	Fuel Type
1	Taxiways	Asphalt Pl	Asphalt Paver	Diesel
1	Taxiways	Asphalt Pl	Dump Truck	Diesel

1	Taxiways	Lighting	Dump Truck	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0
1	Taxiways	Lighting	Loader	Diesel	175	0.59	0.14484592	0.292062	536.408919	0.00259133	0.011335648	0.0104288	0.1391876	0.0020755
1	Taxiways	Lighting	Other General Equipment	Diesel	175	0.43	0.107122446	0.320142	530.619265	0.00257148	0.013008398	0.0119677	0.1397283	0.0059869
1	Taxiways	Lighting	Pickup Truck	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0
1	Taxiways	Lighting	Skid Steer Loader	Diesel	75	0.21	1.658791837	3.378175	695.115071	0.00366026	0.18109574	0.1666081	0.2916491	0.1024541
1	Taxiways	Lighting	Tractors/Loader/Backhoe	Diesel	100	0.21	1.25795303	0.763154	695.374966	0.00348215	0.107918396	0.0992849	0.2058843	0.1065116
1	Taxiways	Markings	Flatbed Truck	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0
1	Taxiways	Markings	Other General Equipment	Diesel	175	0.43	0.107122446	0.320142	530.619265	0.00257148	0.013008398	0.0119677	0.1397283	0.0059869
1	Taxiways	Markings	Pickup Truck	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0
1	Taxiways	Soil Erosio	Other General Equipment	Diesel	175	0.43	0.107122446	0.320142	530.619265	0.00257148	0.013008398	0.0119677	0.1397283	0.0059869
1	Taxiways	Soil Erosio	Pickup Truck	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0
1	Taxiways	Soil Erosio	Pumps	Diesel	11	0.43	4.449418774	4.322486	588.586068	0.00396773	0.349544887	0.3215813	0.5884757	0.0004214
1	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Diesel	100	0.21	1.25795303	0.763154	695.374966	0.00348215	0.107918396	0.0992849	0.2058843	0.1065116
1	Taxiways	Subbase P	Dozer	Diesel	175	0.59	0.141602948	0.282665	536.409139	0.00258869	0.01035858	0.0095299	0.1390745	0
1	Taxiways	Subbase P	Dump Truck (12 cy)	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0
1	Taxiways	Subbase P	Pickup Truck	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0
1	Taxiways	Subbase P	Roller	Diesel	100	0.59	0.400892332	0.294558	595.735091	0.00287802	0.011746096	0.0108064	0.1392098	0.0013459
1	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	0.141602948	0.282665	536.409139	0.00258869	0.01035858	0.0095299	0.1390745	0
1	Taxiways	Topsoil Pla	Dump Truck	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0
1	Taxiways	Topsoil Pla	Pickup Truck	Diesel	600	0.59	0.141916853	0.28136	536.408985	0.00258869	0.010428172	0.0095939	0.1391336	0

Emission Factors: On-Road (from MOVES)

Scer	Project Type	Equipmen	Fuel Type	Roadway Type	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi)	PM2.5(g/mi)	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/veh-	RV NOx(g/vel	RV CO2(g/vel	RV SO2(g/vel	RV PM10(g/v	RV PM2.5(g/	RV VOC(g/vel	RP VOC(g/veh-day)
1	Taxiways	Asphalt 18	Diesel	Urban Unrestricted Access	0.49516995	1.632782985	2511.52413	0.017219	0.046713	0.04531321	0.099929992	0.0725855	0.0034639	22.51448	0.393613	296.5259	0.0020617	0.0065608	0.0063642	6.7349721	0
1	Taxiways	Dump Truc	Diesel	Urban Unrestricted Access	0.426142117	0.95636971	1376.839415	0.009434	0.01993375	0.01933644	0.073906063	0.0713472	0.0034639	23.255132	0.1444044	282.03603	0.0019466	0.0033474	0.0032471	0.5819805	0
1	Taxiways	Dump Truc	Diesel	Urban Unrestricted Access	0.426142117	0.95636971	1376.839415	0.009434	0.01993375	0.01933644	0.073906063	0.0713472	0.0034639	23.255132	0.1444044	282.03603	0.0019466	0.0033474	0.0032471	0.5819805	0
1	Taxiways	Passenger	Gasoline	Urban Unrestricted Access	2.04452129	0.083238316	345.2703161	0.004843	0.00424586	0.00390964	0.049162145	0.0045889	0.0016658	25.054143	1.3932016	271.13052	0.0038032	0.0321111	0.0295682	5.012328	0.7130395

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scer	Project	Fugitive Ty	Variable	Default Values	Units	User Value
1	Taxiways	Asphalt Dr	A = Area of land affected = L x W x 0.0929	5118.8	m2	
1	Taxiways	Asphalt Dr	AR = Application rate of liquefied asphalt (	1.811	l/m2	
1	Taxiways	Asphalt Dr	VD = Volume fraction of diluent in liquefie(	0.35	fraction	
1	Taxiways	Asphalt Dr	EF = Mass fraction of diluent which evapor	0.7	fraction	
1	Taxiways	Asphalt Dr	D = Density of solvent utilized	1.8	lbs/l	
1	Taxiways	Asphalt Dr	VOC = A x AR x VD x EF x D	4088.1	lbs	
1	Taxiways	Asphalt St	T = Mass of asphalt loaded = L x W x 0.166	665.9	tons	
1	Taxiways	Asphalt St	PM10 = (0.027 + 0.00042) x T	18.3	lbs	
1	Taxiways	Asphalt St	CO = (0.4 + 0.0004) x T	266.6	lbs	
1	Taxiways	Asphalt St	NOx = (0.025) x T	16.6	lbs	
1	Taxiways	Asphalt St	SOx = (0.0046) x T	3.063	lbs	
1	Taxiways	Asphalt St	VOC = (0.0082 + 0.0042) x T	8.257	lbs	
1	Taxiways	Material M	s = Surface material silt content	0.043	fraction	
1	Taxiways	Material M	Wt. = Mean vehicle weight	32	tons	
1	Taxiways	Material M	VMT = Vehicle miles traveled	1493.9	miles	
1	Taxiways	Material M	PM10 = 1.5 x [(s/12)^0.9] x [(Wt./3)^0.45] x	40.9	lbs	
1	Taxiways	Material M	sL = Road surface silt loading	0.1	g/m3	
1	Taxiways	Material M	Wt. = Mean vehicle weight	32	tons	
1	Taxiways	Material M	VMT = Vehicle miles traveled	1300	miles	
1	Taxiways	Material M	PM10 = 0.0022 x (sL^0.91) x (Wt^1.02) x VM	12.1	lbs	
1	Taxiways	Unstabiliz	A = Area affected = L x W / 43560.0	1.265	acres	
1	Taxiways	Unstabiliz	TPConv = TSP/PM10 conversion	0.5	fraction	
1	Taxiways	Unstabiliz	CE = Control efficiency	0.63	fraction	
1	Taxiways	Unstabiliz	t = year (e.g. 0.65 year)	0.25	years	
1	Taxiways	Unstabiliz	PM10 = 0.38 x A x TPConv x (1-CE) x t / 2000	0	lbs	
1	Taxiways	Soil Handli	u = Wind speed	5	mph	
1	Taxiways	Soil Handli	m = Moisture content	0.25	fraction	
1	Taxiways	Soil Handli	T = Mass of aggregate storage pile = L x W x	1515.3	tons	
1	Taxiways	Soil Handli	PM10 = T x 0.35 x 0.0032 x [(u/5)^1.3] / [(m,	31.2	lbs	

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ASSUMPTIONS

Emission factors were developed from the following models:

- On-Road Vehicles: MOVES 2010b, revised January 2013
- Non-Road Equipment: NONROAD2008a, July 2009

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:
- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:
- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)
- Excavator
- Excavator for U/G Services/Tanks
- Flat Bed or Dump Trucks
- Flatbed Truck
- Grader
- Grout Wheel Truck
- Hoist Equipment with 40 Ton Rig
- Hydralic Hammer
- Hydroseeder
- Line Painting Truck and Sprayer
- Material Deliveries
- Off-Road Truck
- Pickup Truck
- Scraper
- Seed Truck Spreader
- Small Dozer
- Survey Crew Trucks
- Ten Wheelers
- Ten Wheelers- Material Delivery
- Tool Truck
- Tractor Trailer- Equipment Delivery
- Tractor Trailer- Material Delivery
- Tractor Trailer- Steel Deliveries
- Tractor Trailer- Stone Delivery
- Tractor Trailer- Topsoil & Seed
- Tractor Trailer- Truck Delivery
- Tractor Trailer with Boom Hoist- Curbs Del & Place
- Tractor Trailer with Boom Hoist- Delivery
- Tractor Trailers- Rebar Deliveries
- Tractor Trailers Temp Fac.
- Truck for Topsoil & Seed Del&Spread
- Water Truck
- Excavator with Bucket
- Excavator with Hoe Ram

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2024 Existing Conditions Traffic Emissions

Ratio of Passenger Car to Passenger Trucks as Derived from MOVESActivityOutput

Passenger Trucks	***10.43%***
Passenger Cars	***89.57%***

Fleet Mix

Mode	Fleet Mix	Normalized Fleet Mix	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 2
Drop off/Pickup	39.3%	39.3%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Hotel Shuttle	1.4%	1.4%	Shuttle	Other Buses	--
Limo	1.1%	1.1%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Other	1.3%	1.3%	Utility Vehicles/Pass Thru cars	Light Commercial Truck	--
Parked Express	0.6%	0.6%	Shuttles	Other Buses	--
Parked Offsite	0.9%	0.9%	Shuttles	Other Buses	--
Parked Remote	0.4%	0.4%	Bus	Other Buses	--
Parked Terminal	17.4%	17.4%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Parked Valet	3.6%	3.6%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Rental Car	0.8%	0.8%	Bus	Other Buses	--
Shared Ride Shuttle	0.5%	0.5%	Shuttle	Other Buses	--
Taxi	2.9%	2.9%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Uber/Lyft	29.7%	29.7%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Employee Parking	0.2%	0.2%	Bus	Other Buses	--
Total	***100.10%***	***100.00%***	--	--	--

Carbon Monoxide (CO)	Oxides of Nitrogen (NO_x)	Volatile Organic Compounds	Sulfur Dioxide (SO_2)	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate	Carbon Monoxide (CO)	Oxides of Nitrogen (NO_x)	Volatile Organic Compounds	Sulfur Dioxide (SO_2)	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
2	3	4	5	6	7	8	9	10	11	2	3	4	5	6	7	8	9	10	11

Fleet Mix VMT

Mode	Baseline 2024 VMT	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 VMT	MOVES Vehicle Type 2	MOVES Vehicle Type 2 VMT
Drop off/Pickup	273,623,779	Passenger Cars/SUV	Passenger Car	245,072,254	Passenger Truck	28,551,525
Hotel Shuttle	9,747,412	Shuttle	Other Buses	9,747,412	--	--
Limo	7,658,681	Passenger Cars/SUV	Passenger Car	6,859,529	Passenger Truck	799,152
Other	9,051,168	Utility Vehicles/Pass Thru cars	Light Commercial Truck	9,051,168	--	--
Parked Express	4,177,462	Shuttles	Other Buses	4,177,462	--	--
Parked Offsite	6,266,193	Shuttles	Other Buses	6,266,193	--	--
Parked Remote	2,784,975	Bus	Other Buses	2,784,975	--	--
Parked Terminal	121,146,406	Passenger Cars/SUV	Passenger Car	108,505,273	Passenger Truck	12,641,133
Parked Valet	25,064,774	Passenger Cars/SUV	Passenger Car	22,449,367	Passenger Truck	2,615,407
Rental Car	5,569,950	Bus	Other Buses	5,569,950	--	--
Shared Ride Shuttle	3,481,219	Shuttle	Other Buses	3,481,219	--	--
Taxi	20,191,068	Passenger Cars/SUV	Passenger Car	18,084,212	Passenger Truck	2,106,856
Uber/Lyft	206,784,383	Passenger Cars/SUV	Passenger Car	185,207,276	Passenger Truck	21,577,107
Employee Parking	1,392,487	Bus	Other Buses	1,392,487	--	--
Total	696,939,957	--	--	***628,648,777***	--	***68,291,180***

MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/mile)

Mode	CO	NO_x	VOCs	SO_2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
Drop off/Pickup	2.775	0.045	0.042	0.002	0.001	0.017	0.011	0.001	0.004	0.002
Hotel Shuttle	7.197	4.248	0.356	0.007	0.130	0.294	0.033	0.119	0.091	0.005
Limo	2.775	0.045	0.042	0.002	0.001	0.017	0.011	0.001	0.004	0.002
Other	4.932	0.364	0.150	0.004	0.012	0.029	0.012	0.011	0.007	0.002
Parked Express	7.197	4.248	0.356	0.007	0.130	0.294	0.033	0.119	0.091	0.005
Parked Offsite	7.197	4.248	0.356	0.007	0.130	0.294	0.033	0.119	0.091	0.005
Parked Remote	7.197	4.248	0.356	0.007	0.130	0.294	0.033	0.119	0.091	0.005
Parked Terminal	2.775	0.045	0.042	0.002	0.001	0.017	0.011	0.001	0.004	0.002
Parked Valet	2.775	0.045	0.042	0.002	0.001	0.017	0.011	0.001	0.004	0.002
Rental Car	7.197	4.248	0.356	0.007	0.130	0.294	0.033	0.119	0.091	0.005
Shared Ride Shuttle	7.197	4.248	0.356	0.007	0.130	0.294	0.033	0.119	0.091	0.005
Taxi	2.775	0.045	0.042	0.002	0.001	0.017	0.011	0.001	0.004	0.002
Uber/Lyft	2.775	0.045	0.042	0.002	0.001	0.017	0.011	0.001	0.004	0.002
Employee Parking	7.197	4.248	0.356	0.007	0.130	0.294	0.033	0.119	0.091	0.005

MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/mile)

Mode	CO	NO_x	VOCs	SO_2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
Drop off/Pickup	4.250	0.214	0.105	0.003	0.006	0.027	0.011	0.005	0.006	0.002
Hotel Shuttle	0	0	0	0	0	0	0	0	0	0
Limo	4.250	0.214	0.105	0.003	0.006	0.027	0.011	0.005	0.006	0.002
Other	0	0	0	0	0	0	0	0	0	0
Parked Express	0	0	0	0	0	0	0	0	0	0
Parked Offsite	0	0	0	0	0	0	0	0	0	0
Parked Remote	0	0	0	0	0	0	0	0	0	0
Parked Terminal	4.250	0.214	0.105	0.003	0.006	0.027	0.011	0.005	0.006	0.002
Parked Valet	4.250	0.214	0.105	0.003	0.006	0.027	0.011	0.005	0.006	0.002
Rental Car	0	0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0	0	0	0	0	0	0	0
Taxi	4.250	0.214	0.105	0.003	0.006	0.027	0.011	0.005	0.006	0.002
Uber/Lyft	4.250	0.214	0.105	0.003	0.006	0.027	0.011	0.005	0.006	0.002
Employee Parking	0	0	0	0	0	0	0	0	0	0

MOVES ONROAD EMISSIONS

Mode	CO	NO_x	VOCs	SO_2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	PM10 TOTAL	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate	PM2.5 TOTAL
Drop off/Pickup	883.286977	18.82869729	14.69281986	0.774757742	0.582772926	5.360384008	3.416714984	**9.359871918**	0.518173571	1.402965181	0.512504868	**2.43364362**
Hotel Shuttle	77.32632325	45.64600193	3.828967275	0.074319921	1.394912045	3.157259439	0.351766647	**4.903938131**	1.2799742	0.982462189	0.052764739	**2.315201128**
Limo	24.72304516	0.527011884	0.411249411	0.021685331	0.01631171	0.150036194	0.095633244	**0.261981148**	0.014503586	0.039268746	0.01434492	**0.068117251**
Other	49.20814859	3.628864299	1.496318037	0.038790608	0.117902165	0.286978264	0.122587832	**0.527468261**	0.106262217	0.06618022	0.018388081	**0.190830518**
Parked Express	33.13985282	19.56257225	1.640985975	0.031851395	0.597819448	1.353111188	0.150757134	**2.101687771**	0.548560371	0.421055224	0.02261346	**0.992229055**
Parked Offsite	49.70977924	29.34385838	2.461478963	0.047777092	0.896729172	2.029666782	0.226135702	**3.152531656**	0.822840557	0.631582836	0.033920189	**1.488343582**
Parked Remote	22.09323522	13.04171484	1.09399065	0.021234263	0.398546299	0.902074126	0.100504756	**1.40112518**	0.365706914	0.280703483	0.01507564	**0.661486037**
Parked Terminal	391.0736234	8.336369795	6.505217952	0.343022512	0.258021601	2.37329979	1.512744039	**4.14406543**	0.22942036	0.621160156	0.226910552	**1.077491068**
Parked Valet	80.91178415	1.724766164	1.345907163	0.070970175	0.053383779	0.491027543	0.312981525	**0.857392847**	0.047466281	0.128515894	0.046947011	**0.222929187**
Rental Car	44.18647043	26.08342967	2.1879813	0.042468526	0.797092597	1.804148251	0.201009512	**2.802250361**	0.731413828	0.561406965	0.030151279	**1.322972073**
Shared Ride Shuttle	27.61654402	16.30214354	1.367488313	0.026542829	0.498182873	1.127592657	0.125630945	**1.751406476**	0.457133643	0.350879353	0.01884455	**0.826857546**
Taxi	65.17893723	1.389394966	1.084202992	0.057170419	0.0430036	0.395549965	0.252124006	**0.690677572**	0.038236727	0.103526693	0.037818425	**0.179581845**
Uber/Lyft	667.5222193	14.22932086	11.10373409	0.585503943	0.440416181	4.050977227	2.582097584	**7.073490992**	0.391596821	1.060256129	0.387312839	**1.839165789**
Employee Parking	11.04661761	6.520857418	0.546995325	0.010617132	0.199273149	0.451037063	0.050252378	**0.70056259**	0.182853457	0.140351741	0.00753782	**0.330743018**
Total (Tons Per Year)	**2427.023557**	**205.1650033**	**49.7673373**	**2.146711887**	**6.294367547**	**23.9331425**	**9.500940289**	**39.72845033**	**5.734142534**	**6.79031481**	**1.425134373**	**13.94959172**

Total Check	***YES***

VTYPE 1 and VTYPE 2 Check	***696,939,957 YES***

Number of trips	25,812,591

All Vehicles are assumed to have 2 starts per trip except for dropoff and pickup

Mode	Baseline 2024 Starts	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup	10,134,214	Passenger Cars/SUV	Passenger Car	9,076,750	Passenger Truck	1,057,464
Hotel Shuttle	722,031	Shuttle	Other Buses	722,031	0	0
Limo	567,310	Passenger Cars/SUV	Passenger Car	508,113	Passenger Truck	59,196
Other	670,457	Utility Vehicles/Pass Thru cars	Light Commercial Truck	670,457	0	0
Parked Express	309,442	Shuttles	Other Buses	309,442	0	0
Parked Offsite	464,162	Shuttles	Other Buses	464,162	0	0
Parked Remote	206,294	Bus	Other Buses	206,294	0	0
Parked Terminal	8,973,808	Passenger Cars/SUV	Passenger Car	8,037,428	Passenger Truck	936,380
Parked Valet	1,856,650	Passenger Cars/SUV	Passenger Car	1,662,916	Passenger Truck	193,734
Rental Car	412,589	Bus	Other Buses	412,589	0	0
Shared Ride Shuttle	257,868	Shuttle	Other Buses	257,868	0	0
Taxi	1,495,635	Passenger Cars/SUV	Passenger Car	1,339,571	Passenger Truck	156,063
Uber/Lyft	15,317,362	Passenger Cars/SUV	Passenger Car	13,719,057	Passenger Truck	1,598,304
Employee Parking	103,147	Bus	Other Buses	103,147	0	0
TOTAL	**41,490,968**			**37,489,826**		**4,001,142**

MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/start) and MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/start)

Mode	Type 1 CO	Type 1 NO_x	Type 1 VOCs	Type 1 SO_2	Type 1 Primary Exhaust PM10 - Total	Type 1 Primary Exhaust PM2.5 - Total	Type 2 CO	Type 2 NO_x	Type 2 VOCs	Type 2 SO_2	Type 2 Primary Exhaust PM10 - Total	Type 2 Primary Exhaust PM2.5 - Total
Drop off/Pickup	4.159375185	0.201366579	0.309333442	0.000595069	0.009266468	0.008198421	7.131233405	0.440763966	0.473017783	0.000785451	0.015520342	0.013739764
Hotel Shuttle	5.76501397	0.792720883	0.394525772	0.000260712	0.012204004	0.010874127	0	0	0	0	0	0
Limo	4.159375185	0.201366579	0.309333442	0.000595069	0.009266468	0.008198421	7.131233405	0.440763966	0.473017783	0.000785451	0.015520342	0.013739764
Other	12.0874868	0.665325705	0.602500184	0.000794199	0.016097699	0.014261526	0	0	0	0	0	0
Parked Express	5.76501397	0.792720883	0.394525772	0.000260712	0.012204004	0.010874127	0	0	0	0	0	0
Parked Offsite	5.76501397	0.792720883	0.394525772	0.000260712	0.012204004	0.010874127	0	0	0	0	0	0
Parked Remote	5.76501397	0.792720883	0.394525772	0.000260712	0.012204004	0.010874127	0	0	0	0	0	0
Parked Terminal	4.159375185	0.201366579	0.309333442	0.000595069	0.009266468	0.008198421	7.131233405	0.440763966	0.473017783	0.000785451	0.015520342	0.013739764
Parked Valet	4.159375185	0.201366579	0.309333442	0.000595069	0.009266468	0.008198421	7.131233405	0.440763966	0.473017783	0.000785451	0.015520342	0.013739764
Rental Car	5.76501397	0.792720883	0.394525772	0.000260712	0.012204004	0.010874127	0	0	0	0	0	0
Shared Ride Shuttle	5.76501397	0.792720883	0.394525772	0.000260712	0.012204004	0.010874127	0	0	0	0	0	0
Taxi	4.159375185	0.201366579	0.309333442	0.000595069	0.009266468	0.008198421	7.131233405	0.440763966	0.473017783	0.000785451	0.015520342	0.013739764
Uber/Lyft	4.159375185	0.201366579	0.309333442	0.000595069	0.009266468	0.008198421	7.131233405	0.440763966	0.473017783	0.000785451	0.015520342	0.013739764
Employee Parking	5.76501397	0.792720883	0.394525772	0.000260712	0.012204004	0.010874127	0	0	0	0	0	0

MOVES ONROAD EMISSIONS (TONS PER YEAR)

Mode	CO	NO_x	VOCs	SO_2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	49.9290452	2.528545722	3.646400494	0.006869511	0.110806693	0.098044846
Hotel Shuttle	4.588412465	0.630931755	0.314005652	0.000207503	0.009713247	0.008654789
Limo	2.795010164	0.141547089	0.204124201	0.000384553	0.006202919	0.005488516
Other	8.933330804	0.491713018	0.445281434	0.000586957	0.011897103	0.010540067
Parked Express	1.966462485	0.270399323	0.134573851	8.89297E-05	0.00416282	0.003709195
Parked Offsite	2.949693728	0.405598985	0.201860776	0.000133395	0.00624423	0.005563793
Parked Remote	1.31097499	0.180266216	0.089715901	5.92865E-05	0.002775213	0.002472797
Parked Terminal	44.21197895	2.239017586	3.22887372	0.006082926	0.098118904	0.086818337
Parked Valet	9.14730599	0.463245018	0.668042839	0.001258536	0.020300463	0.017962414
Rental Car	2.62194998	0.360532431	0.179431801	0.000118573	0.005550427	0.004945594
Shared Ride Shuttle	1.638718738	0.225332769	0.112144876	7.41081E-05	0.003469017	0.003090996
Taxi	7.368663159	0.373169598	0.53814562	0.001013821	0.016353151	0.014469723
Uber/Lyft	75.46527442	3.821771396	5.511353418	0.010382925	0.167478818	0.148189919
Employee Parking	0.655487495	0.090133108	0.04485795	2.96432E-05	0.001387607	0.001236398
TOTAL (Tons Per Year)	**213.5823086**	**12.22220401**	**29.6509285**	**0.027290666**	**0.464460612**	**0.411187385**

Vech 1 and Vehicle 2 Check	**41,490,968 YES**

Mode	Baseline 2024 Vehicles	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Hotel Shuttle		Shuttle	Other Buses		--	
Limo		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Other		Utility Vehicles/Pass Thru cars	Light Commercial Truck		--	
Parked Express	***154,720.83***	***Shuttles***	***Other Buses***	***154,720.83***	--	--
Parked Offsite	***232,081.24***	***Shuttles***	***Other Buses***	***232,081.24***	--	--
Parked Remote	***103,147.22***	***Bus***	***Other Buses***	***103,147.22***	--	--
Parked Terminal	***4,486,903.93***	***Passenger Cars/SUV***	***Passenger Car***	***4,018,713.81***	***Passenger Truck***	***468,190.12***
Parked Valet	***928,324.95***	***Passenger Cars/SUV***	***Passenger Car***	***831,458.03***	***Passenger Truck***	***96,866.92***
Rental Car		Bus	Other Buses		--	
Shared Ride Shuttle		Shuttle	Other Buses		--	
Taxi		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Uber/Lyft		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Employee Parking		Bus	Other Buses		0	
TOTAL	**5,905,178**			**5,340,121**		**565,057**

MOVES Vehicle Type 1 ONROAD EVAPS EMISSION RATES (grams/vehicle-day) and MOVES Vehicle Type 2 ONROAD EVAPS EMISSION RATES (grams/vehicle-day)

Mode	Type 1 CO	Type 1 NO_x	Type 1 VOCs	Type 1 SO_2	Type 1 Primary Exhaust PM10 - Total	Type 1 Primary Exhaust PM2.5 - Total	Type 2 CO	Type 2 NO_x	Type 2 VOCs	Type 2 SO_2	Type 2 Primary Exhaust PM10 - Total	Type 2 Primary Exhaust PM2.5 - Total
Drop off/Pickup	0	0	2.249589497	0	0	0	0	0	3.369827698	0	0	0
Hotel Shuttle	0	0	0.381199585	0	0	0	0	0	0	0	0	0
Limo	0	0	2.249589497	0	0	0	0	0	3.369827698	0	0	0
Other	0	0	3.099644379	0	0	0	0	0	0	0	0	0
Parked Express	***0***	***0***	***0.381199585***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Parked Offsite	***0***	***0***	***0.381199585***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Parked Remote	***0***	***0***	***0.381199585***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Parked Terminal	***0***	***0***	***2.249589497***	***0***	***0***	***0***	***0***	***0***	***3.369827698***	***0***	***0***	***0***
Parked Valet	***0***	***0***	***2.249589497***	***0***	***0***	***0***	***0***	***0***	***3.369827698***	***0***	***0***	***0***
Rental Car	0	0	0.381199585	0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0.381199585	0	0	0	0	0	0	0	0	0
Taxi	0	0	2.249589497	0	0	0	0	0	3.369827698	0	0	0
Uber/Lyft	0	0	2.249589497	0	0	0	0	0	3.369827698	0	0	0
Employee Parking	0	0	0.381199585	0	0	0	0	0	0	0	0	0

MOVES ONROAD EMISSIONS (TONS PER YEAR)

Mode	CO	NO_x	VOCs	SO_2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	0	0	0	0	0	0
Hotel Shuttle	0	0	0	0	0	0
Limo	0	0	0	0	0	0
Other	0	0	0	0	0	0
Parked Express	***0***	***0***	***0.065014125***	***0***	***0***	***0***
Parked Offsite	***0***	***0***	***0.097521188***	***0***	***0***	***0***
Parked Remote	***0***	***0***	***0.04334275***	***0***	***0***	***0***
Parked Terminal	***0***	***0***	***11.70459712***	***0***	***0***	***0***
Parked Valet	***0***	***0***	***2.421640784***	***0***	***0***	***0***
Rental Car	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0	0	0	0
Taxi	0	0	0	0	0	0
Uber/Lyft	0	0	0	0	0	0
Employee Parking	0	0	0	0	0	0
TOTAL (Tons Per Year)	**0**	**0**	**14.33211597**	**0**	**0**	**0**

Vech 1 and Vehicle 2 Check	**5,905,178 YES**

2031 No Action

Ratio of Passenger Car to Passenger Trucks

Passenger Trucks	**10.86%**
Passenger Cars	**89.14%**

Fleet Mix

Mode	Fleet Mix	Normalized Fleet Mix	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 2
Drop off/Pickup	39.3%	39.3%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Hotel Shuttle	1.4%	1.4%	Shuttle	Other Buses	--
Limo	1.1%	1.1%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Other	1.3%	1.3%	Utility Vehicles/Pass Thru cars	Light Commercial Truck	--
Parked Express	0.6%	0.6%	Shuttles	Other Buses	--
Parked Offsite	0.9%	0.9%	Shuttles	Other Buses	--
Parked Remote	0.4%	0.4%	Bus	Other Buses	--
Parked Terminal	17.4%	17.4%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Parked Valet	3.6%	3.6%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Rental Car	0.8%	0.8%	Bus	Other Buses	--
Shared Ride Shuttle	0.5%	0.5%	Shuttle	Other Buses	--
Taxi	2.9%	2.9%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Uber/Lyft	29.7%	29.7%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Employee Parking	0.2%	0.2%	Bus	Other Buses	--
Total	***100.10%***	***100.00%***	--	--	--

Carbon Monoxide (CO)	Oxides of Nitrogen (NOx)	Volatile Organic Compounds	Sulfur Dioxide (SO2)	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate	Carbon Monoxide (CO)	Oxides of Nitrogen (NOx)	Volatile Organic Compounds	Sulfur Dioxide (SO2)	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
2	3	4	5	6	7	8	9	10	11	2	3	4	5	6	7	8	9	10	11

Fleet Mix VMT

Mode	No Action 2031 VMT	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 VMT	MOVES Vehicle Type 2	MOVES Vehicle Type 2 VMT
Drop off/Pickup	297,345,703	Passenger Cars/SUV	Passenger Car	265,067,585	Passenger Truck	32,278,118
Hotel Shuttle	10,592,468	Shuttle	Other Buses	10,592,468	--	--
Limo	8,322,653	Passenger Cars/SUV	Passenger Car	7,419,194	Passenger Truck	903,459
Other	9,835,863	Utility Vehicles/Pass Thru cars	Light Commercial Truck	9,835,863	--	--
Parked Express	4,539,629	Shuttles	Other Buses	4,539,629	--	--
Parked Offsite	6,809,444	Shuttles	Other Buses	6,809,444	--	--
Parked Remote	3,026,419	Bus	Other Buses	3,026,419	--	--
Parked Terminal	131,649,243	Passenger Cars/SUV	Passenger Car	117,358,167	Passenger Truck	14,291,075
Parked Valet	27,237,774	Passenger Cars/SUV	Passenger Car	24,281,000	Passenger Truck	2,956,774
Rental Car	6,052,839	Bus	Other Buses	6,052,839	--	--
Shared Ride Shuttle	3,783,024	Shuttle	Other Buses	3,783,024	--	--
Taxi	21,941,540	Passenger Cars/SUV	Passenger Car	19,559,695	Passenger Truck	2,381,846
Uber/Lyft	224,711,638	Passenger Cars/SUV	Passenger Car	200,318,251	Passenger Truck	24,393,387
Employee Parking	1,513,210	Bus	Other Buses	1,513,210	--	--
Total	***757,361,448***	--	--	***680,156,788***	--	***77,204,660***
Total Check	***YES***					

MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/mile)

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
Drop off/Pickup	1.999	0.020	0.036	0.002	0.001	0.011	0.011	0.001	0.004	0.002
Hotel Shuttle	7.433	2.699	0.279	0.006	0.056	0.304	0.033	0.051	0.101	0.005
Limo	1.999	0.020	0.036	0.002	0.001	0.011	0.011	0.001	0.004	0.002
Other	2.597	0.138	0.082	0.003	0.005	0.019	0.012	0.005	0.006	0.002
Parked Express	7.433	2.699	0.279	0.006	0.056	0.304	0.033	0.051	0.101	0.005
Parked Offsite	7.433	2.699	0.279	0.006	0.056	0.304	0.033	0.051	0.101	0.005
Parked Remote	7.433	2.699	0.279	0.006	0.056	0.304	0.033	0.051	0.101	0.005
Parked Terminal	1.999	0.020	0.036	0.002	0.001	0.011	0.011	0.001	0.004	0.002
Parked Valet	1.999	0.020	0.036	0.002	0.001	0.011	0.011	0.001	0.004	0.002
Rental Car	7.433	2.699	0.279	0.006	0.056	0.304	0.033	0.051	0.101	0.005
Shared Ride Shuttle	7.433	2.699	0.279	0.006	0.056	0.304	0.033	0.051	0.101	0.005
Taxi	1.999	0.020	0.036	0.002	0.001	0.011	0.011	0.001	0.004	0.002
Uber/Lyft	1.999	0.020	0.036	0.002	0.001	0.011	0.011	0.001	0.004	0.002
Employee Parking	7.433	2.699	0.279	0.006	0.056	0.304	0.033	0.051	0.101	0.005

MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/mile)

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
Drop off/Pickup	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Hotel Shuttle	0	0	0	0	0	0	0	0	0	0
Limo	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Other	0	0	0	0	0	0	0	0	0	0
Parked Express	0	0	0	0	0	0	0	0	0	0
Parked Offsite	0	0	0	0	0	0	0	0	0	0
Parked Remote	0	0	0	0	0	0	0	0	0	0
Parked Terminal	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Parked Valet	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Rental Car	0	0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0	0	0	0	0	0	0	0
Taxi	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Uber/Lyft	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Employee Parking	0	0	0	0	0	0	0	0	0	0

MOVES ONROAD EMISSIONS

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	PM10 TOTAL	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate	PM2.5 TOTAL
Drop off/Pickup	672.1390962	8.696605197	12.72871526	0.608958761	0.441730684	3.757977866	3.711819995	7.911528545	0.391656709	1.294679697	0.556770283	2.24310669
Hotel Shuttle	86.78981892	31.51067117	3.254971427	0.073034805	0.648858624	3.552119983	0.381303512	4.58228212	0.594262684	1.184077659	0.057195241	1.835535584
Limo	18.81305358	0.24341643	0.356274473	0.017044647	0.012363963	0.105185131	0.103893181	0.221442275	0.010962402	0.036237854	0.015583901	0.062784157
Other	28.15776628	1.492776101	0.884314864	0.031778286	0.055268602	0.206106801	0.131892565	0.393267967	0.049505125	0.06411229	0.01978379	0.133401206
Parked Express	37.19563668	13.50457336	1.394987755	0.031300631	0.278082267	1.522337136	0.163415791	1.963835194	0.254684007	0.507461854	0.024512246	0.786658107
Parked Offsite	55.79345502	20.25686004	2.092481632	0.046950946	0.417123401	2.283505704	0.245123687	2.945752791	0.382026011	0.761192781	0.036768369	1.179987161
Parked Remote	24.79709112	9.003048906	0.929991836	0.020867087	0.185388178	1.014891424	0.108943861	1.309223463	0.169789338	0.338307903	0.016341497	0.524438738
Parked Terminal	297.5883021	3.850405354	5.635614389	0.269615329	0.195575417	1.663837529	1.643401219	3.502814165	0.173405261	0.573216965	0.24650898	0.993131206
Parked Valet	61.56999354	0.796635591	1.165989184	0.055782482	0.040463879	0.344242247	0.340014045	0.724720172	0.03587695	0.118596613	0.051001858	0.205475422
Rental Car	49.59418224	18.00609781	1.859983673	0.041734174	0.370776357	2.029782848	0.217887721	2.618446926	0.339578676	0.676615805	0.032682995	1.048877477
Shared Ride Shuttle	30.9963639	11.25381113	1.162489795	0.026083859	0.231735223	1.26861428	0.136179826	1.636529328	0.212236673	0.422884878	0.020426872	0.655548423
Taxi	49.59805035	0.641734226	0.939269065	0.044935888	0.032595903	0.277306255	0.273900203	0.583802361	0.028900877	0.095536161	0.04108483	0.165521868
Uber/Lyft	507.9524467	6.572243622	9.619410768	0.460205476	0.333827005	2.83999854	2.805115874	5.978941419	0.295984841	0.978422061	0.420765329	1.695172231
Employee Parking	12.39854556	4.501524453	0.464995918	0.010433544	0.092694089	0.507445712	0.05447193	0.654611731	0.084894669	0.169153951	0.008170749	0.262219369
Total (Tons Per Year)	***1933.383802***	***130.3304034***	***42.48949004***	***1.738725913***	***3.336483593***	***21.37335145***	***10.31736341***	***35.02719846***	***3.023764223***	***7.220496474***	***1.547596942***	***11.79185764***

VTYPE 1 and VTYPE 2 Check	***757,361,448*** ***YES***

Number of Trips	**28,050,424**

All Vehicles are assumed to have 2 starts per trip except for dropoff and pickup

Mode	No Action 2031 Starts	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup	11,012,804	Passenger Cars/SUV	Passenger Car	9,817,318	Passenger Truck	1,195,486
Hotel Shuttle	784,627	Shuttle	Other Buses	784,627	--	--
Limo	616,493	Passenger Cars/SUV	Passenger Car	549,570	Passenger Truck	66,923
Other	728,582	Utility Vehicles/Pass Thru cars	Light Commercial Truck	728,582	--	--
Parked Express	336,269	Shuttles	Other Buses	336,269	--	--
Parked Offsite	504,403	Shuttles	Other Buses	504,403	--	--
Parked Remote	224,179	Bus	Other Buses	224,179	--	--
Parked Terminal	9,751,796	Passenger Cars/SUV	Passenger Car	8,693,198	Passenger Truck	1,058,598
Parked Valet	2,017,613	Passenger Cars/SUV	Passenger Car	1,798,593	Passenger Truck	219,020
Rental Car	448,358	Bus	Other Buses	448,358	--	--
Shared Ride Shuttle	280,224	Shuttle	Other Buses	280,224	--	--
Taxi	1,625,299	Passenger Cars/SUV	Passenger Car	1,448,866	Passenger Truck	176,433
Uber/Lyft	16,645,307	Passenger Cars/SUV	Passenger Car	14,838,389	Passenger Truck	1,806,918
Employee Parking	112,090	Bus	Other Buses	112,090	--	--
TOTAL	**45,088,044**			**40,564,666**		**4,523,378**

MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/start) / MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/start)

Mode	CO (Type 1)	NOx (Type 1)	VOCs (Type 1)	SO2 (Type 1)	Primary Exhaust PM10 - Total (Type 1)	Primary Exhaust PM2.5 - Total (Type 1)	CO (Type 2)	NOx (Type 2)	VOCs (Type 2)	SO2 (Type 2)	Primary Exhaust PM10 - Total (Type 2)	Primary Exhaust PM2.5 - Total (Type 2)
Drop off/Pickup	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Hotel Shuttle	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Limo	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Other	5.543374419	0.379637967	0.336494025	0.000551276	0.013505081	0.011958535	0	0	0	0	0	0
Parked Express	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Parked Offsite	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Parked Remote	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Parked Terminal	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Parked Valet	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Rental Car	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Shared Ride Shuttle	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Taxi	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Uber/Lyft	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Employee Parking	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0

MOVES ONROAD EMISSIONS

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	35.51695158	1.787332678	2.567482494	0.005024731	0.121101784	0.107144299
Hotel Shuttle	3.968158043	0.647101995	0.332407618	0.000217577	0.011916334	0.010592724
Limo	1.988226297	0.100054247	0.143726755	0.000281283	0.006779235	0.0059979
Other	4.452043992	0.304898209	0.270248064	0.000442746	0.010846321	0.009604245
Parked Express	1.700639161	0.277329426	0.142460408	9.32472E-05	0.005107	0.004539739
Parked Offsite	2.550958742	0.41599414	0.213690612	0.000139871	0.007660501	0.006809609
Parked Remote	1.133759441	0.184886284	0.094973605	6.21648E-05	0.003404667	0.003026493
Parked Terminal	31.45012507	1.582676264	2.273495949	0.00444938	0.107235168	0.094875868
Parked Valet	6.506922427	0.327450262	0.470378472	0.000920561	0.022186586	0.01962949
Rental Car	2.267518882	0.369772569	0.18994721	0.00012433	0.006809334	0.006052985
Shared Ride Shuttle	1.417199301	0.231107855	0.118717006	7.7706E-05	0.004255834	0.003783116
Taxi	5.241687511	0.263779377	0.378915992	0.000741563	0.017872528	0.015812645
Uber/Lyft	53.68211002	2.701464658	3.880622396	0.007594631	0.183039338	0.161943292
Employee Parking	0.56687972	0.092443142	0.047486803	3.10824E-05	0.001702333	0.001513246
TOTAL (Tons Per Year)	**152.4431802**	**9.286291105**	**24.78864436**	**0.020200872**	**0.509916963**	**0.451325649**

Vehicle 1 and Vehicle 2 Check	***45,088,044*** ***YES***

Mode	No Action 2031 Vehicles	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Hotel Shuttle		Shuttle	Other Buses		--	
Limo		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Other		Utility Vehicles/Pass Thru cars	Light Commercial Truck		--	
Parked Express	***168,134***	***Shuttles***	***Other Buses***	***168,134***	--	--
Parked Offsite	***252,202***	***Shuttles***	***Other Buses***	***252,202***	--	--
Parked Remote	***112,090***	***Bus***	***Other Buses***	***112,090***	--	--
Parked Terminal	***4,875,898***	***Passenger Cars/SUV***	***Passenger Car***	***4,346,599***	***Passenger Truck***	***529,299***
Parked Valet	***1,008,806***	***Passenger Cars/SUV***	***Passenger Car***	***899,296***	***Passenger Truck***	***109,510***
Rental Car		Bus	Other Buses		--	
Shared Ride Shuttle		Shuttle	Other Buses		--	
Taxi		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Uber/Lyft		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Employee Parking		Bus	Other Buses		--	
TOTAL	**6,417,130**			**5,778,321**		**638,809**

MOVES Vehicle Type 1 ONROAD EVAPS EMISSION RATES (grams/vehicle-day) / MOVES Vehicle Type 2 ONROAD EVAPS EMISSION RATES (grams/vehicle-day)

Mode	CO (Type 1)	NOx (Type 1)	VOCs (Type 1)	SO2 (Type 1)	Primary Exhaust PM10 - Total (Type 1)	Primary Exhaust PM2.5 - Total (Type 1)	CO (Type 2)	NOx (Type 2)	VOCs (Type 2)	SO2 (Type 2)	Primary Exhaust PM10 - Total (Type 2)	Primary Exhaust PM2.5 - Total (Type 2)
Drop off/Pickup	0	0	1.965297801	0	0	0	0	0	2.868492638	0	0	0
Hotel Shuttle	0	0	0.47635639	0	0	0	0	0	0	0	0	0
Limo	0	0	1.965297801	0	0	0	0	0	2.868492638	0	0	0
Other	0	0	2.609711896	0	0	0	0	0	0	0	0	0
Parked Express	***0***	***0***	***0.47635639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Parked Offsite	***0***	***0***	***0.47635639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Parked Remote	***0***	***0***	***0.47635639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Parked Terminal	***0***	***0***	***1.965297801***	***0***	***0***	***0***	***0***	***0***	***2.868492638***	***0***	***0***	***0***
Parked Valet	***0***	***0***	***1.965297801***	***0***	***0***	***0***	***0***	***0***	***2.868492638***	***0***	***0***	***0***
Rental Car	0	0	0.47635639	0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0.47635639	0	0	0	0	0	0	0	0	0
Taxi	0	0	1.965297801	0	0	0	0	0	2.868492638	0	0	0
Uber/Lyft	0	0	1.965297801	0	0	0	0	0	2.868492638	0	0	0
Employee Parking	0	0	0.47635639	0	0	0	0	0	0	0	0	0

MOVES ONROAD EMISSIONS

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	0	0	0	0	0	0
Hotel Shuttle	0	0	0	0	0	0
Limo	0	0	0	0	0	0
Other	0	0	0	0	0	0
Parked Express	***0***	***0***	***0.088286669***	***0***	***0***	***0***
Parked Offsite	***0***	***0***	***0.132430004***	***0***	***0***	***0***
Parked Remote	***0***	***0***	***0.058857779***	***0***	***0***	***0***
Parked Terminal	***0***	***0***	***11.09002797***	***0***	***0***	***0***
Parked Valet	***0***	***0***	***2.294488546***	***0***	***0***	***0***
Rental Car	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0	0	0	0
Taxi	0	0	0	0	0	0
Uber/Lyft	0	0	0	0	0	0
Employee Parking	0	0	0	0	0	0
TOTAL (Tons Per Year)	**0**	**0**	**13.66409097**	**0**	**0**	**0**

Vehicle 1 and Vehicle 2 Check	**6,417,130** **YES**

13.66409097

2031 Proposed Action

Passenger Trucks	10.86%
Passenger Cars	89.14%

Fleet Mix

Mode	Fleet Mix	Normalized Fleet Mix	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 2
Drop off/Pickup	39.3%	39.3%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Hotel Shuttle	1.4%	1.4%	Shuttle	Other Buses	--
Limo	1.1%	1.1%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Other	1.3%	1.3%	Utility Vehicles/Pass Thru cars	Light Commercial Truck	--
Parked Express	0.6%	0.6%	Shuttles	Other Buses	--
Parked Offsite	0.9%	0.9%	Shuttles	Other Buses	--
Parked Remote	0.4%	0.4%	Bus	Other Buses	--
Parked Terminal	17.4%	17.4%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Parked Valet	3.6%	3.6%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Rental Car	0.8%	0.8%	Bus	Other Buses	--
Shared Ride Shuttle	0.5%	0.5%	Shuttle	Other Buses	--
Taxi	2.9%	2.9%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Uber/Lyft	29.7%	29.7%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Employee Parking	0.2%	0.2%	Bus	Other Buses	--
Total	100.10%	100.00%	--	--	--

Fleet Mix VMT

Mode	Proposed Action 2031 VMT	Vehicle Type	MOVES Vehicle Type 1	Vehicle Type 1 VMT	MOVES Vehicle Type 2	Vehicle Type 2 VMT
Drop off/Pickup	324,072,830	Passenger Cars/SUV	Passenger Car	288,893,370	Passenger Truck	35,179,460
Hotel Shuttle	11,544,579	Shuttle	Other Buses	11,544,579	--	--
Limo	9,070,741	Passenger Cars/SUV	Passenger Car	8,086,074	Passenger Truck	984,667
Other	10,719,966	Utility Vehicles/Pass Thru cars	Light Commercial Truck	10,719,966	--	--
Parked Express	4,947,677	Shuttles	Other Buses	4,947,677	--	--
Parked Offsite	7,421,515	Shuttles	Other Buses	7,421,515	--	--
Parked Remote	3,298,451	Bus	Other Buses	3,298,451	--	--
Parked Terminal	143,482,627	Passenger Cars/SUV	Passenger Car	127,906,988	Passenger Truck	15,575,639
Parked Valet	29,686,061	Passenger Cars/SUV	Passenger Car	26,463,515	Passenger Truck	3,222,546
Rental Car	6,596,902	Bus	Other Buses	6,596,902	--	--
Shared Ride Shuttle	4,123,064	Shuttle	Other Buses	4,123,064	--	--
Taxi	23,913,771	Passenger Cars/SUV	Passenger Car	21,317,831	Passenger Truck	2,595,940
Uber/Lyft	244,910,001	Passenger Cars/SUV	Passenger Car	218,323,998	Passenger Truck	26,586,004
Employee Parking	1,649,226	Bus	Other Buses	1,649,226	--	--
Total	*825,437,412*	--	--	*741,293,157*	--	*84,144,255*
Total Check	*YES*					

MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/mile)

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
	Carbon Monoxide (CO) *2*	Oxides of Nitrogen (NOx) *3*	Volatile Organic Compounds *4*	Sulfur Dioxide (SO2) *5*	Primary Exhaust PM10 - Total *6*	Primary PM10 - Brakewear Particulate *7*	Primary PM10 - Tirewear Particulate *8*	Primary Exhaust PM2.5 - Total *9*	Primary PM2.5 - Brakewear Particulate *10*	Primary PM2.5 - Tirewear Particulate *11*
Drop off/Pickup	1.998887909	0.019893118	0.035709368	0.001763868	0.001189708	0.010768575	0.011311669	0.001052552	0.003797059	0.001696742
Hotel Shuttle	7.433016497	2.698696017	0.27876837	0.006254984	0.055570768	0.304217324	0.032656311	0.05089496	0.101409	0.004898422
Limo	1.998887909	0.019893118	0.035709368	0.001763868	0.001189708	0.010768575	0.011311669	0.001052552	0.003797059	0.001696742
Other	2.597043342	0.137681526	0.08156201	0.002930971	0.005097526	0.019009615	0.012164697	0.00456595	0.005913196	0.001824696
Parked Express	7.433016497	2.698696017	0.27876837	0.006254984	0.055570768	0.304217324	0.032656311	0.05089496	0.101409	0.004898422
Parked Offsite	7.433016497	2.698696017	0.27876837	0.006254984	0.055570768	0.304217324	0.032656311	0.05089496	0.101409	0.004898422
Parked Remote	7.433016497	2.698696017	0.27876837	0.006254984	0.055570768	0.304217324	0.032656311	0.05089496	0.101409	0.004898422
Parked Terminal	1.998887909	0.019893118	0.035709368	0.001763868	0.001189708	0.010768575	0.011311669	0.001052552	0.003797059	0.001696742
Parked Valet	1.998887909	0.019893118	0.035709368	0.001763868	0.001189708	0.010768575	0.011311669	0.001052552	0.003797059	0.001696742
Rental Car	7.433016497	2.698696017	0.27876837	0.006254984	0.055570768	0.304217324	0.032656311	0.05089496	0.101409	0.004898422
Shared Ride Shuttle	7.433016497	2.698696017	0.27876837	0.006254984	0.055570768	0.304217324	0.032656311	0.05089496	0.101409	0.004898422
Taxi	1.998887909	0.019893118	0.035709368	0.001763868	0.001189708	0.010768575	0.011311669	0.001052552	0.003797059	0.001696742
Uber/Lyft	1.998887909	0.019893118	0.035709368	0.001763868	0.001189708	0.010768575	0.011311669	0.001052552	0.003797059	0.001696742
Employee Parking	7.433016497	2.698696017	0.27876837	0.006254984	0.055570768	0.304217324	0.032656311	0.05089496	0.101409	0.004898422

MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/mile)

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
	Carbon Monoxide (CO) 2	Oxides of Nitrogen (NOx) 3	Volatile Organic Compounds 4	Sulfur Dioxide (SO2) 5	Primary Exhaust PM10 - Total 6	Primary PM10 - Brakewear Particulate 7	Primary PM10 - Tirewear Particulate 8	Primary Exhaust PM2.5 - Total 9	Primary PM2.5 - Brakewear Particulate 10	Primary PM2.5 - Tirewear Particulate 11
Drop off/Pickup	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Hotel Shuttle	0	0	0	0	0	0	0	0	0	0
Limo	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Other	0	0	0	0	0	0	0	0	0	0
Parked Express	0	0	0	0	0	0	0	0	0	0
Parked Offsite	0	0	0	0	0	0	0	0	0	0
Parked Remote	0	0	0	0	0	0	0	0	0	0
Parked Terminal	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Parked Valet	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Rental Car	0	0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0	0	0	0	0	0	0	0
Taxi	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Uber/Lyft	2.476	0.081	0.064	0.003	0.003	0.017	0.011	0.002	0.005	0.002
Employee Parking	0	0	0	0	0	0	0	0	0	0

MOVES ONROAD EMISSIONS

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	PM10 TOTAL	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate	PM2.5 TOTAL
Drop off/Pickup	732.5547894	9.478305644	13.87284474	0.663695445	0.481435955	4.095766338	4.045459533	8.622661827	0.426861047	1.411052888	0.60681597	2.444729905
Hotel Shuttle	94.59098256	34.34302991	3.547546813	0.079599589	0.707181736	3.871404775	0.415577246	4.994163756	0.647678401	1.290509309	0.062336275	2.000523985
Limo	20.50407808	0.265296087	0.388298453	0.018576717	0.013475307	0.11463977	0.113231692	0.241346769	0.011947765	0.039495119	0.016984671	0.068427555
Other	30.68874682	1.626955326	0.963802124	0.0346347	0.060236459	0.224632855	0.14374782	0.428617134	0.053954927	0.069875069	0.02156207	0.145392066
Parked Express	40.53899253	14.71844139	1.520377206	0.03411411	0.303077887	1.659173475	0.178104534	2.140355895	0.277576458	0.553075418	0.026715547	0.857367422
Parked Offsite	60.80848879	22.07766209	2.280565808	0.051171164	0.45461683	2.488760212	0.267156801	3.210533843	0.416364686	0.829613127	0.04007332	1.286051133
Parked Remote	27.02599502	9.81229426	1.013584804	0.02274274	0.202051924	1.10611565	0.118736356	1.42690393	0.185050972	0.368716945	0.017810364	0.571578281
Parked Terminal	324.337235	4.196501735	6.142175534	0.293849892	0.213154851	1.81339273	1.791119488	3.817667068	0.188991914	0.624740973	0.268666613	1.0823995
Parked Valet	67.10425552	0.868241738	1.270794938	0.060796529	0.044101004	0.375184703	0.370576446	0.789862152	0.039101775	0.129256753	0.055586196	0.223944724
Rental Car	54.05199003	19.62458852	2.027169607	0.045485479	0.404103849	2.2122313	0.237472712	2.853807861	0.370101943	0.737433891	0.035620729	1.143156563
Shared Ride Shuttle	33.78249377	12.26536783	1.266981005	0.028428425	0.252564906	1.382644562	0.148420445	1.783629913	0.231313715	0.460896182	0.022262956	0.714472852
Taxi	54.05620584	0.699416956	1.023695922	0.048974982	0.035525808	0.302232122	0.298519915	0.636277845	0.031498652	0.104123496	0.044777769	0.180399917
Uber/Lyft	553.610108	7.162994342	10.48405824	0.501571367	0.363833279	3.095273797	3.057255678	6.516362755	0.322589646	1.066368213	0.458586115	1.847543974
Employee Parking	13.51299751	4.90614713	0.506792402	0.01137137	0.101025962	0.553057825	0.059368178	0.713451965	0.092525486	0.184358473	0.008905182	0.285789141
TOTAL (Tons Per Year)	2107.167359	142.045243	46.3086876	1.895012509	3.636385756	23.29451011	11.24474684	38.17564271	3.295557387	7.869515854	1.686703776	12.85177702

VTYPE 1 and VTYPE 2 Check	*825,437,412* *YES*

Number of Trips	30,571,756.00

All Vehicles are assumed to have 2 starts per trip except for dropoff and pickup

Mode	Proposed Action 2031 Starts	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup	12,002,697	Passenger Cars/SUV	Passenger Car	10,699,754	Passenger Truck	1,302,943
Hotel Shuttle	855,154	Shuttle	Other Buses	855,154	--	--
Limo	671,907	Passenger Cars/SUV	Passenger Car	598,968	Passenger Truck	72,938
Other	794,072	Utility Vehicles/Pass Thru cars	Light Commercial Truck	794,072	--	--
Parked Express	366,495	Shuttles	Other Buses	366,495	--	--
Parked Offsite	549,742	Shuttles	Other Buses	549,742	--	--
Parked Remote	244,330	Bus	Other Buses	244,330	--	--
Parked Terminal	10,628,343	Passenger Cars/SUV	Passenger Car	9,474,592	Passenger Truck	1,153,751
Parked Valet	2,198,967	Passenger Cars/SUV	Passenger Car	1,960,260	Passenger Truck	238,707
Rental Car	488,659	Bus	Other Buses	488,659	--	--
Shared Ride Shuttle	305,412	Shuttle	Other Buses	305,412	--	--
Taxi	1,771,390	Passenger Cars/SUV	Passenger Car	1,579,099	Passenger Truck	192,292
Uber/Lyft	18,141,482	Passenger Cars/SUV	Passenger Car	16,172,148	Passenger Truck	1,969,334
Employee Parking	122,165	Bus	Other Buses	122,165	--	--
TOTAL	49,140,815			44,210,850		4,929,965

MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/start) / MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/start)

Mode	Type 1 CO	Type 1 NOx	Type 1 VOCs	Type 1 SO2	Type 1 Primary Exhaust PM10 - Total	Type 1 Primary Exhaust PM2.5 - Total	Type 2 CO	Type 2 NOx	Type 2 VOCs	Type 2 SO2	Type 2 Primary Exhaust PM10 - Total	Type 2 Primary Exhaust PM2.5 - Total
Drop off/Pickup	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Hotel Shuttle	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Limo	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Other	5.543374419	0.379637967	0.336494025	0.000551276	0.013505081	0.011958535	0	0	0	0	0	0
Parked Express	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Parked Offsite	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Parked Remote	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Parked Terminal	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Parked Valet	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Rental Car	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Shared Ride Shuttle	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0
Taxi	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Uber/Lyft	2.841668363	0.1351496	0.204768918	0.000398592	0.009542156	0.008441858	3.615857284	0.246448634	0.266742755	0.000539719	0.013536533	0.011980704
Employee Parking	4.587953882	0.748174361	0.384327138	0.000251561	0.013777574	0.012247227	0	0	0	0	0	0

MOVES ONROAD EMISSIONS

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	38.70941764	1.947988327	2.798262456	0.005476382	0.131987103	0.116775039
Hotel Shuttle	4.324838707	0.705267211	0.36228631	0.000237134	0.012987442	0.011544859
Limo	2.16693941	0.109047693	0.156645735	0.000306566	0.007388591	0.006537025
Other	4.852219083	0.332304198	0.2945395	0.000482542	0.01182125	0.010467529
Parked Express	1.853502303	0.302257376	0.155265561	0.000101629	0.005566047	0.004947797
Parked Offsite	2.780253454	0.453386064	0.232898342	0.000152443	0.00834907	0.007421695
Parked Remote	1.235668202	0.201504917	0.103510374	6.77525E-05	0.003710698	0.003298531
Parked Terminal	34.27704158	1.724936228	2.477850724	0.004849315	0.116874076	0.103403852
Parked Valet	7.091801705	0.356883358	0.512658771	0.001003307	0.024180843	0.0213939
Rental Car	2.471336404	0.403009835	0.207020748	0.000135505	0.007421396	0.006597062
Shared Ride Shuttle	1.544585252	0.251881147	0.129387968	8.46906E-05	0.004638372	0.004123164
Taxi	5.712840263	0.287489371	0.412975121	0.000808219	0.019479013	0.017233975
Uber/Lyft	58.50736407	2.9442877	4.229434857	0.00827728	0.199491957	0.176499678
Employee Parking	0.617834101	0.100752459	0.051755187	3.38762E-05	0.001855349	0.001649266
TOTAL (Tons Per Year)	*166.1456422*	*10.12099588*	*27.01678901*	*0.022016641*	*0.555751207*	*0.491893371*

VTYPE 1 and VTYPE 2 Check	49,140,815 YES

Mode	Proposed Action 2031 Starts	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Hotel Shuttle		Shuttle	Other Buses		--	
Limo		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Other		Utility Vehicles/Pass Thru cars	Light Commercial Truck		--	
Parked Express	***183,247***	***Shuttles***	***Other Buses***	***183,247***	***--***	***--***
Parked Offsite	***274,871***	***Shuttles***	***Other Buses***	***274,871***	***--***	***--***
Parked Remote	***122,165***	***Bus***	***Other Buses***	***122,165***	***--***	***--***
Parked Terminal	***5,314,171***	***Passenger Cars/SUV***	***Passenger Car***	***4,737,296***	***Passenger Truck***	***576,876***
Parked Valet	***1,099,484***	***Passenger Cars/SUV***	***Passenger Car***	***980,130***	***Passenger Truck***	***119,354***
Rental Car		Bus	Other Buses		--	
Shared Ride Shuttle		Shuttle	Other Buses		--	
Taxi		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Uber/Lyft		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Employee Parking		Bus	Other Buses		--	
TOTAL	6,993,938			6,297,709		696,229

MOVES Vehicle Type 1 ONROAD EVAPS EMISSION RATES (grams/vehicle-day) / MOVES Vehicle Type 2 ONROAD EVAPS EMISSION RATES (grams/vehicle-day)

Mode	Type 1 CO	Type 1 NOx	Type 1 VOCs	Type 1 SO2	Type 1 Primary Exhaust PM10 - Total	Type 1 Primary Exhaust PM2.5 - Total	Type 2 CO	Type 2 NOx	Type 2 VOCs	Type 2 SO2	Type 2 Primary Exhaust PM10 - Total	Type 2 Primary Exhaust PM2.5 - Total
Drop off/Pickup	0	0	1.965297801	0	0	0	0	0	2.868492638	0	0	0
Hotel Shuttle	0	0	0.47635639	0	0	0	0	0		0	0	0
Limo	0	0	1.965297801	0	0	0	0	0	2.868492638	0	0	0
Other	0	0	2.609711896	0	0	0	0	0		0	0	0
Parked Express	***0***	***0***	***0.47635639***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***
Parked Offsite	***0***	***0***	***0.47635639***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***
Parked Remote	***0***	***0***	***0.47635639***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***
Parked Terminal	***0***	***0***	***1.965297801***	***0***	***0***	***0***	***0***	***0***	***2.868492638***	***0***	***0***	***0***
Parked Valet	***0***	***0***	***1.965297801***	***0***	***0***	***0***	***0***	***0***	***2.868492638***	***0***	***0***	***0***
Rental Car	0	0	0.47635639	0	0	0	0	0		0	0	0
Shared Ride Shuttle	0	0	0.47635639	0	0	0	0	0		0	0	0
Taxi	0	0	1.965297801	0	0	0	0	0	2.868492638	0	0	0
Uber/Lyft	0	0	1.965297801	0	0	0	0	0	2.868492638	0	0	0
Employee Parking	0	0	0.47635639	0	0	0	0	0		0	0	0

MOVES ONROAD EMISSIONS

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	0	0	0	0	0	0
Hotel Shuttle	0	0	0	0	0	0
Limo	0	0	0	0	0	0
Other	0	0	0	0	0	0
Parked Express	***0***	***0***	***0.096222378***	***0***	***0***	***0***
Parked Offsite	***0***	***0***	***0.144333567***	***0***	***0***	***0***
Parked Remote	***0***	***0***	***0.064148252***	***0***	***0***	***0***
Parked Terminal	***0***	***0***	***12.0868629***	***0***	***0***	***0***
Parked Valet	***0***	***0***	***2.500730256***	***0***	***0***	***0***
Rental Car	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0	0	0	0
Taxi	0	0	0	0	0	0
Uber/Lyft	0	0	0	0	0	0
Employee Parking	0	0	0	0	0	0
TOTAL (Tons Per Year)	*0*	*0*	*14.89229736*	*0*	*0*	*0*

14.89229736

VTYPE 1 and VTYPE 2 Check	6,993,938 YES

2036 No Action

Passenger Trucks	10.52%
Passenger Cars	89.48%

Passenger Trucks	10.52%
Passenger Cars	89.48%

Fleet Mix

Mode	Fleet Mix	Normalized Fleet Mix	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 2
Drop off/Pickup	39.3%	39.3%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Hotel Shuttle	1.4%	1.4%	Shuttle	Other Buses	--
Limo	1.1%	1.1%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Other	1.3%	1.3%	Utility Vehicles/Pass Thru cars	Light Commercial Truck	--
Parked Express	0.6%	0.6%	Shuttles	Other Buses	--
Parked Offsite	0.9%	0.9%	Shuttles	Other Buses	--
Parked Remote	0.4%	0.4%	Bus	Other Buses	--
Parked Terminal	17.4%	17.4%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Parked Valet	3.6%	3.6%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Rental Car	0.8%	0.8%	Bus	Other Buses	--
Shared Ride Shuttle	0.5%	0.5%	Shuttle	Other Buses	--
Taxi	2.9%	2.9%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Uber/Lyft	29.7%	29.7%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Employee Parking	0.2%	0.2%	Bus	Other Buses	--
Total	***100.10%***	***100.00%***	--	--	--

Fleet Mix VMT

Mode	No Action 2036 VMT	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 VMT	MOVES Vehicle Type 2	MOVES Vehicle Type 2 VMT
Drop off/Pickup	304,227,091	Passenger Cars/SUV	Passenger Car	272,237,338	Passenger Truck	31,989,752
Hotel Shuttle	10,837,606	Shuttle	Other Buses	10,837,606	--	--
Limo	8,515,262	Passenger Cars/SUV	Passenger Car	7,619,875	Passenger Truck	895,387
Other	10,063,492	Utility Vehicles/Pass Thru cars	Light Commercial Truck	10,063,492	--	--
Parked Express	4,644,688	Shuttles	Other Buses	4,644,688	--	--
Parked Offsite	6,967,033	Shuttles	Other Buses	6,967,033	--	--
Parked Remote	3,096,459	Bus	Other Buses	3,096,459	--	--
Parked Terminal	134,695,964	Passenger Cars/SUV	Passenger Car	120,532,562	Passenger Truck	14,163,402
Parked Valet	27,868,130	Passenger Cars/SUV	Passenger Car	24,937,771	Passenger Truck	2,930,359
Rental Car	6,192,918	Bus	Other Buses	6,192,918	--	--
Shared Ride Shuttle	3,870,574	Shuttle	Other Buses	3,870,574	--	--
Taxi	22,449,327	Passenger Cars/SUV	Passenger Car	20,088,760	Passenger Truck	2,360,567
Uber/Lyft	229,912,076	Passenger Cars/SUV	Passenger Car	205,736,614	Passenger Truck	24,175,462
Employee Parking	1,548,229	Bus	Other Buses	1,548,229	--	--
Total	***774,888,849.00***	--	--	***698,373,920***	--	***76,514,929***
Total Check	***YES***					

MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/mile)

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
	Carbon Monoxide (CO)	Oxides of Nitrogen (NOx)	Volatile Organic Compounds	Sulfur Dioxide (SO2)	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
	2	3	4	5	6	7	8	9	10	11
Drop off/Pickup	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Hotel Shuttle	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Limo	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Other	1.885	0.062	0.065	0.002	0.003	0.015	0.012	0.002	0.006	0.002
Parked Express	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Parked Offsite	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Parked Remote	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Parked Terminal	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Parked Valet	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Rental Car	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Shared Ride Shuttle	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Taxi	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Uber/Lyft	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Employee Parking	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005

MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/mile)

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
	Carbon Monoxide (CO)	Oxides of Nitrogen (NOx)	Volatile Organic Compounds	Sulfur Dioxide (SO2)	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
	2	3	4	5	6	7	8	9	10	11
Drop off/Pickup	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Hotel Shuttle	0	0	0	0	0	0	0	0	0	0
Limo	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Other	0	0	0	0	0	0	0	0	0	0
Parked Express	0	0	0	0	0	0	0	0	0	0
Parked Offsite	0	0	0	0	0	0	0	0	0	0
Parked Remote	0	0	0	0	0	0	0	0	0	0
Parked Terminal	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Parked Valet	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Rental Car	0	0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0	0	0	0	0	0	0	0
Taxi	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Uber/Lyft	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Employee Parking	0	0	0	0	0	0	0	0	0	0
									TOTAL (Tons Per Year)	

MOVES ONROAD EMISSIONS

Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	PM10 TOTAL	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate	PM2.5 TOTAL
Drop off/Pickup	408.83885	3.4543422	9.4150983	0.4095187	0.2618541	2.9551338	3.9059889	7.1229767	0.2319281	1.18764022	0.58589578	2.0054641
Hotel Shuttle	84.922536	22.246114	2.7146261	0.0662772	0.2144335	3.9787499	0.400337	4.5935204	0.1954977	1.3725238	0.06005028	1.6280718
Limo	11.443327	0.0966864	0.2635269	0.0114624	0.0073292	0.0827137	0.1093279	0.1993708	0.0064916	0.03324184	0.01639912	0.0561326
Other	20.914769	0.6850427	0.7156316	0.0266803	0.0303548	0.1695576	0.1383429	0.3382553	0.0270693	0.06347665	0.02075134	0.1112973
Parked Express	36.395372	9.5340488	1.1634112	0.0284045	0.0919001	1.7051785	0.171573	1.9686516	0.0837847	0.58822449	0.02573583	0.697745
Parked Offsite	54.593059	14.301073	1.7451168	0.0426068	0.1378501	2.5577678	0.2573595	2.9529774	0.1256771	0.88233673	0.03860375	1.0466176
Parked Remote	24.263582	6.3560325	0.7756074	0.0189364	0.0612667	1.1367857	0.114382	1.3124344	0.0558565	0.39214966	0.01715722	0.4651634
Parked Terminal	181.01262	1.5294034	4.1685168	0.1813136	0.1159354	1.3083798	1.7293691	3.1536844	0.1026857	0.52582544	0.25940424	0.8879154
Parked Valet	37.450887	0.3164283	0.8624518	0.0375132	0.0239866	0.2706993	0.3578005	0.6524864	0.0212453	0.10879147	0.05366984	0.1837066
Rental Car	48.527163	12.712065	1.5512149	0.0378727	0.1225335	2.2735714	0.228764	2.6248688	0.111713	0.78429932	0.03431445	0.9303267
Shared Ride Shuttle	30.329477	7.9450407	0.9695093	0.0236704	0.0765834	1.4209821	0.1429775	1.640543	0.0698206	0.49018707	0.02144653	0.5814542
Taxi	30.16877	0.2549006	0.6947528	0.0302189	0.0193226	0.2180633	0.2882282	0.5256141	0.0171143	0.08763757	0.04323404	0.1479859
Uber/Lyft	308.96982	2.6105334	7.1152269	0.3094836	0.1978897	2.233269	2.9518542	5.3830129	0.1752739	0.89752963	0.4427762	1.5155797
Employee Parking	12.131791	3.1780163	0.3878037	0.0094682	0.0306334	0.5683928	0.057191	0.6562172	0.0279282	0.19607483	0.00857861	0.2325817
TOTAL (Tons Per Year)	***1289.962***	***85.219727***	***32.542494***	***1.2334268***	***1.3918731***	***20.879245***	***10.853496***	***33.124614***	***1.2520859***	***7.60993873***	***1.62801723***	***10.490042***

VTYPE 1 and VTYPE 2 Check	***774,888,849.00*** ***YES***

Number of Trips	28,699,587.00

All Vehicles are assumed to have 2 starts per trip except for dropoff and pickup

Mode	No Action 2036 Starts	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup	11,267,670	Passenger Cars/SUV	Passenger Car	10,082,864	Passenger Truck	1,184,806
Hotel Shuttle	802,786	Shuttle	Other Buses	802,786	--	--
Limo	630,760	Passenger Cars/SUV	Passenger Car	564,435	Passenger Truck	66,325
Other	745,444	Utility Vehicles/Pass Thru cars	Light Commercial Truck	745,444	--	--
Parked Express	344,051	Shuttles	Other Buses	344,051	--	--
Parked Offsite	516,076	Shuttles	Other Buses	516,076	--	--
Parked Remote	229,367	Bus	Other Buses	229,367	--	--
Parked Terminal	9,977,479	Passenger Cars/SUV	Passenger Car	8,928,338	Passenger Truck	1,049,141
Parked Valet	2,064,306	Passenger Cars/SUV	Passenger Car	1,847,242	Passenger Truck	217,064
Rental Car	458,735	Bus	Other Buses	458,735	--	--
Shared Ride Shuttle	286,709	Shuttle	Other Buses	286,709	--	--
Taxi	1,662,913	Passenger Cars/SUV	Passenger Car	1,488,056	Passenger Truck	174,857
Uber/Lyft	17,030,524	Passenger Cars/SUV	Passenger Car	15,239,749	Passenger Truck	1,790,775
Employee Parking	114,684	Bus	Other Buses	114,684	--	--
TOTAL	**46,131,504**			**41,648,537**		**4,482,967**

Mode	MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/start): CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total	MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/start): CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total	MOVES ONROAD EMISSIONS: CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	1.6621269	0.0798767	0.1180749	0.0002049	0.0056568	0.005004402	2.494793061	0.1682891	0.19081295	0.0003937	0.0122235	0.0108174	21.732011	1.1075812	1.5615529	0.0027913	0.078837	0.0697494
Hotel Shuttle	3.3814995	0.6280937	0.3282353	0.0002209	0.012714	0.011292607	0	0	0	0	0	0	2.9923712	0.5558154	0.2904634	0.0001955	0.0112509	0.0099931
Limo	1.6621269	0.0798767	0.1180749	0.0002049	0.0056568	0.005004402	2.494793061	0.1682891	0.19081295	0.0003937	0.0122235	0.0108174	1.2165502	0.062002	0.0874152	0.0001563	0.0044133	0.0039045
Other	3.2448571	0.2604278	0.2408517	0.0004016	0.0118602	0.01049928	0	0	0	0	0	0	2.6663492	0.2139976	0.1979115	0.00033	0.0097457	0.0086274
Parked Express	3.3814995	0.6280937	0.3282353	0.0002209	0.012714	0.011292607	0	0	0	0	0	0	1.2824448	0.2382066	0.1244843	8.377E-05	0.0048218	0.0042828
Parked Offsite	3.3814995	0.6280937	0.3282353	0.0002209	0.012714	0.011292607	0	0	0	0	0	0	1.9236672	0.3573099	0.1867265	0.0001257	0.0072327	0.0064241
Parked Remote	3.3814995	0.6280937	0.3282353	0.0002209	0.012714	0.011292607	0	0	0	0	0	0	0.8549632	0.1588044	0.0829896	5.585E-05	0.0032145	0.0028552
Parked Terminal	1.6621269	0.0798767	0.1180749	0.0002049	0.0056568	0.005004402	2.494793061	0.1682891	0.19081295	0.0003937	0.0122235	0.0108174	19.243612	0.9807589	1.3827491	0.0024717	0.0698099	0.0617628
Parked Valet	1.6621269	0.0798767	0.1180749	0.0002049	0.0056568	0.005004402	2.494793061	0.1682891	0.19081295	0.0003937	0.0122235	0.0108174	3.981437	0.2029156	0.286086	0.0005114	0.0144434	0.0127785
Rental Car	3.3814995	0.6280937	0.3282353	0.0002209	0.012714	0.011292607	0	0	0	0	0	0	1.7099264	0.3176088	0.1659791	0.0001117	0.0064291	0.0057103
Shared Ride Shuttle	3.3814995	0.6280937	0.3282353	0.0002209	0.012714	0.011292607	0	0	0	0	0	0	1.068704	0.1985055	0.1037369	6.981E-05	0.0040182	0.003569
Taxi	1.6621269	0.0798767	0.1180749	0.0002049	0.0056568	0.005004402	2.494793061	0.1682891	0.19081295	0.0003937	0.0122235	0.0108174	3.2072687	0.1634598	0.2304582	0.000412	0.011635	0.0102938
Uber/Lyft	1.6621269	0.0798767	0.1180749	0.0002049	0.0056568	0.005004402	2.494793061	0.1682891	0.19081295	0.0003937	0.0122235	0.0108174	32.846856	1.674054	2.3602097	0.0042189	0.1191582	0.1054228
Employee Parking	3.3814995	0.6280937	0.3282353	0.0002209	0.012714	0.011292607	0	0	0	0	0	0	0.4274816	0.0794022	0.0414948	2.792E-05	0.0016073	0.0014276
TOTAL (Tons Per Year)													***95.153642***	***6.3104219***	***16.583829***	***0.0115617***	***0.3466169***	***0.3068013***

VTYPE 1 and VTYPE 2 Check	***46,131,504*** ***YES***

Mode	No Action 2036 Starts	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Hotel Shuttle		Shuttle	Other Buses		--	
Limo		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Other		Utility Vehicles/Pass Thru cars	Light Commercial Truck		--	
Parked Express	***172,025***	***Shuttles***	***Other Buses***	***172,025***	--	***0***
Parked Offsite	***258,038***	***Shuttles***	***Other Buses***	***258,038***	--	***0***
Parked Remote	***114,684***	***Bus***	***Other Buses***	***114,684***	--	***0***
Parked Terminal	***4,988,739***	***Passenger Cars/SUV***	***Passenger Car***	***4,464,169***	***Passenger Truck***	***524,570***
Parked Valet	***1,032,153***	***Passenger Cars/SUV***	***Passenger Car***	***923,621***	***Passenger Truck***	***108,532***
Rental Car		Bus	Other Buses		--	
Shared Ride Shuttle		Shuttle	Other Buses		--	
Taxi		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Uber/Lyft		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Employee Parking		Bus	Other Buses		--	
TOTAL	**6,565,640**			**5,932,538**		**633,102**
Total Check	**NO**					

Mode	MOVES Vehicle Type 1 ONROAD EVAPS EMISSION RATES (grams/vehicle-day): CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total	MOVES Vehicle Type 2 ONROAD EVAPS EMISSION RATES (grams/vehicle-day): CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total	MOVES ONROAD EMISSIONS: CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	0	0	1.266704	0	0	0	0	0	2.39253154	0	0	0	0	0	0	0	0	0
Hotel Shuttle	0	0	0.4810305	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Limo	0	0	1.266704	0	0	0	0	0	2.39253154	0	0	0	0	0	0	0	0	0
Other	0	0	2.2630932	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Parked Express	***0***	***0***	***0.4810305***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***	***0***	***0***	***0.0912162***	***0***	***0***	***0***
Parked Offsite	***0***	***0***	***0.4810305***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***	***0***	***0***	***0.1368243***	***0***	***0***	***0***
Parked Remote	***0***	***0***	***0.4810305***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***	***0***	***0***	***0.0608108***	***0***	***0***	***0***
Parked Terminal	***0***	***0***	***1.266704***	***0***	***0***	***0***	***0***	***0***	***2.39253154***	***0***	***0***	***0***	***0***	***0***	***7.6168259***	***0***	***0***	***0***
Parked Valet	***0***	***0***	***1.266704***	***0***	***0***	***0***	***0***	***0***	***2.39253154***	***0***	***0***	***0***	***0***	***0***	***1.575895***	***0***	***0***	***0***
Rental Car	0	0	0.4810305	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0.4810305	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Taxi	0	0	1.266704	0	0	0	0	0	2.39253154	0	0	0	0	0	0	0	0	0
Uber/Lyft	0	0	1.266704	0	0	0	0	0	2.39253154	0	0	0	0	0	0	0	0	0
Employee Parking	0	0	0.4810305	0	0	0	0	0		0	0	0	0	0	0	0	0	0
TOTAL (Tons Per Year)													***0***	***0***	***9.4815722***	***0***	***0***	***0***

9.4815722

VTYPE 1 and VTYPE 2 Check	***6,565,640*** ***YES***

2036 Proposed Action

Passenger Trucks	*10.52%*
Passenger Cars	*89.48%*

Fleet Mix

Mode	Fleet Mix	Normalized Fleet Mix	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 2
Drop off/Pickup	39.3%	39.3%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Hotel Shuttle	1.4%	1.4%	Shuttle	Other Buses	--
Limo	1.1%	1.1%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Other	1.3%	1.3%	Utility Vehicles/Pass Thru cars	Light Commercial Truck	--
Parked Express	0.6%	0.6%	Shuttles	Other Buses	--
Parked Offsite	0.9%	0.9%	Shuttles	Other Buses	--
Parked Remote	0.4%	0.4%	Bus	Other Buses	--
Parked Terminal	17.4%	17.4%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Parked Valet	3.6%	3.6%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Rental Car	0.8%	0.8%	Bus	Other Buses	--
Shared Ride Shuttle	0.5%	0.5%	Shuttle	Other Buses	--
Taxi	2.9%	2.9%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Uber/Lyft	29.7%	29.7%	Passenger Cars/SUV	Passenger Car	Passenger Truck
Employee Parking	0.2%	0.2%	Bus	Other Buses	--
Total	*100.10%*	*100.00%*	--	--	--

Fleet Mix VMT

Mode	Proposed Action 2036 VMT	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 VMT	MOVES Vehicle Type 2	MOVES Vehicle Type 2 VMT
Drop off/Pickup	354,354,737	Passenger Cars/SUV	Passenger Car	317,094,018	Passenger Truck	37,260,720
Hotel Shuttle	12,623,324	Shuttle	Other Buses	12,623,324	--	0
Limo	9,918,326	Passenger Cars/SUV	Passenger Car	8,875,405	Passenger Truck	1,042,921
Other	11,721,658	Utility Vehicles/Pass Thru cars	Light Commercial Truck	11,721,658	--	0
Parked Express	5,409,996	Shuttles	Other Buses	5,409,996	--	0
Parked Offsite	8,114,994	Shuttles	Other Buses	8,114,994	--	0
Parked Remote	3,606,664	Bus	Other Buses	3,606,664	--	0
Parked Terminal	156,889,884	Passenger Cars/SUV	Passenger Car	140,392,771	Passenger Truck	16,497,112
Parked Valet	32,459,976	Passenger Cars/SUV	Passenger Car	29,046,780	Passenger Truck	3,413,196
Rental Car	7,213,328	Bus	Other Buses	7,213,328	--	0
Shared Ride Shuttle	4,508,330	Shuttle	Other Buses	4,508,330	--	0
Taxi	26,148,314	Passenger Cars/SUV	Passenger Car	23,398,795	Passenger Truck	2,749,519
Uber/Lyft	267,794,801	Passenger Cars/SUV	Passenger Car	239,635,937	Passenger Truck	28,158,864
Employee Parking	1,803,332	Bus	Other Buses	1,803,332	--	0
Total	*902,567,664*	--	--	*813,445,332*	--	*89,122,332*
Total Check	*YES*					

	Carbon Monoxide (CO) 2	Oxides of Nitrogen (NOx) 3	Volatile Organic Compounds 4	Sulfur Dioxide (SO2) 5	Primary Exhaust PM10 - Total 6	Primary PM10 - Brakewear Particulate 7	Primary PM10 - Tirewear Particulate 8	Primary Exhaust PM2.5 - Total 9	Primary PM2.5 - Brakewear Particulate 10	Primary PM2.5 - Tirewear Particulate 11
	MOVES ONROAD EMISSION RATES (grams/mile)									
Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
Drop off/Pickup	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Hotel Shuttle	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Limo	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Other	1.885	0.062	0.065	0.002	0.003	0.015	0.012	0.002	0.006	0.002
Parked Express	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Parked Offsite	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Parked Remote	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Parked Terminal	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Parked Valet	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Rental Car	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Shared Ride Shuttle	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005
Taxi	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Uber/Lyft	1.136	0.007	0.025	0.001	0.001	0.008	0.012	0.001	0.003	0.002
Employee Parking	7.109	1.862	0.227	0.006	0.018	0.333	0.034	0.016	0.115	0.005

	Carbon Monoxide (CO) 2	Oxides of Nitrogen (NOx) 3	Volatile Organic Compounds 4	Sulfur Dioxide (SO2) 5	Primary Exhaust PM10 - Total 6	Primary PM10 - Brakewear Particulate 7	Primary PM10 - Tirewear Particulate 8	Primary Exhaust PM2.5 - Total 9	Primary PM2.5 - Brakewear Particulate 10	Primary PM2.5 - Tirewear Particulate 11
	MOVES ONROAD EMISSIONS									
Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate
Drop off/Pickup	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Hotel Shuttle	0	0	0	0	0	0	0	0	0	0
Limo	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Other	0	0	0	0	0	0	0	0	0	0
Parked Express	0	0	0	0	0	0	0	0	0	0
Parked Offsite	0	0	0	0	0	0	0	0	0	0
Parked Remote	0	0	0	0	0	0	0	0	0	0
Parked Terminal	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Parked Valet	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Rental Car	0	0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0	0	0	0	0	0	0	0
Taxi	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Uber/Lyft	1.926	0.035	0.053	0.002	0.002	0.014	0.012	0.001	0.005	0.002
Employee Parking	0	0	0	0	0	0	0	0	0	0

	MOVES ONROAD EMISSIONS													
Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary PM10 - Brakewear Particulate	Primary PM10 - Tirewear Particulate	PM10 TOTAL	Primary Exhaust PM2.5 - Total	Primary PM2.5 - Brakewear Particulate	Primary PM2.5 - Tirewear Particulate	PM2.5 TOTAL
Drop off/Pickup	476.2034312	4.023515813	10.96642862	0.47699525	0.304999882	3.442052586	4.549580615	8.296633083	0.270142984	1.383328284	0.682434111	2.33590538
Hotel Shuttle	98.91526329	25.91161697	3.16191634	0.077197769	0.249765862	4.634330495	0.466300702	5.350397059	0.227709914	1.598675223	0.069944795	1.896329931
Limo	13.32884922	0.112617491	0.306948384	0.013351012	0.008536892	0.096342439	0.127341951	0.232221282	0.007561254	0.038719112	0.019101209	0.065381576
Other	24.36090559	0.797917468	0.833546554	0.03107637	0.035356396	0.197495674	0.161137777	0.393989846	0.031529506	0.073935732	0.024170549	0.129635788
Parked Express	42.3922557	11.1049787	1.355107003	0.033084758	0.107042512	1.986141641	0.199843158	2.293027311	0.097589963	0.685146524	0.029976341	0.812712828
Parked Offsite	63.58838355	16.65746805	2.032660504	0.049627137	0.160563768	2.979212461	0.299764737	3.439540966	0.146384944	1.027719786	0.044964511	1.219069241
Parked Remote	28.2615038	7.403319135	0.903404668	0.022056506	0.071361675	1.324094427	0.133228772	1.528684874	0.065059975	0.456764349	0.019984227	0.541808552
Parked Terminal	210.8381604	1.781403948	4.855365345	0.211188737	0.135038116	1.523962214	2.014318135	3.673318464	0.119605291	0.612465958	0.3021464	1.034217649
Parked Valet	43.62168835	0.368566334	1.004558347	0.043694221	0.027938921	0.315302527	0.416755476	0.759996924	0.024745922	0.126717095	0.062513048	0.213976065
Rental Car	56.5230076	14.80663827	1.806809337	0.044113011	0.14272335	2.648188854	0.266457544	3.057369748	0.130119951	0.913528699	0.039968454	1.083617104
Shared Ride Shuttle	35.32687975	9.254148918	1.129255836	0.027570632	0.089202094	1.655118034	0.166535965	1.910856092	0.081324969	0.570955437	0.024980284	0.67726069
Taxi	35.13969339	0.296900658	0.809227558	0.035198123	0.022506353	0.253993702	0.335719689	0.612219744	0.019934215	0.10207766	0.050357733	0.172369608
Uber/Lyft	359.8789289	3.040672256	8.287606365	0.360477327	0.230496094	2.601245848	3.438232678	6.26997462	0.204153858	1.045416031	0.515732649	1.765302539
Employee Parking	14.1307519	3.701659567	0.451702334	0.011028253	0.035680837	0.662047214	0.066614386	0.764342437	0.032529988	0.228382175	0.009992114	0.270904276
TOTAL (tons Per Year)	*1502.509703*	*99.26142358*	*37.9045372*	*1.436659106*	*1.621212752*	*24.31952812*	*12.64183158*	*38.58257245*	*1.458392735*	*8.863832064*	*1.896266426*	*12.21849123*

VTYPE 1 and VTYPE 2 Check	*902,567,664* *YES*

Number of Trips	*33,428,432.00*

All Vehicles are assumed to have 2 starts per trip except for dropoff and pickup

Mode	Proposed Action 2036 Starts	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup	13,124,250	Passenger Cars/SUV	Passenger Car	11,744,223	Passenger Truck	1,380,027
Hotel Shuttle	935,061	Shuttle	Other Buses	935,061	--	--
Limo	734,691	Passenger Cars/SUV	Passenger Car	657,437	Passenger Truck	77,253
Other	868,271	Utility Vehicles/Pass Thru cars	Light Commercial Truck	868,271	--	--
Parked Express	400,740	Shuttles	Other Buses	400,740	--	--
Parked Offsite	601,111	Shuttles	Other Buses	601,111	--	--
Parked Remote	267,160	Bus	Other Buses	267,160	--	--
Parked Terminal	11,621,473	Passenger Cars/SUV	Passenger Car	10,399,465	Passenger Truck	1,222,008
Parked Valet	2,404,443	Passenger Cars/SUV	Passenger Car	2,151,613	Passenger Truck	252,829
Rental Car	534,321	Bus	Other Buses	534,321	--	--
Shared Ride Shuttle	333,950	Shuttle	Other Buses	333,950	--	--
Taxi	1,936,912	Passenger Cars/SUV	Passenger Car	1,733,244	Passenger Truck	203,668
Uber/Lyft	19,836,652	Passenger Cars/SUV	Passenger Car	17,750,810	Passenger Truck	2,085,842
Employee Parking	133,580	Bus	Other Buses	133,580	--	--
TOTAL	53,732,614			48,510,987		5,221,628

	MOVES Vehicle Type 1 ONROAD EMISSION RATES (grams/start)						MOVES Vehicle Type 2 ONROAD EMISSION RATES (grams/start)						MOVES ONROAD EMISSIONS					
Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	1.662126929	0.07987667	0.118074909	0.000204879	0.005656816	0.005004402	2.494793061	0.16828911	0.190812954	0.0003937	0.01222348	0.010817436	25.31280453	1.290077896	1.81885073	0.003251245	0.091827019	0.081242044
Hotel Shuttle	3.381499518	0.628093695	0.328235335	0.000220884	0.01271395	0.011292607	0	0	0	0	0	0	3.485425648	0.647397363	0.338323234	0.000227672	0.013104697	0.011639671
Limo	1.662126929	0.07987667	0.118074909	0.000204879	0.005656816	0.005004402	2.494793061	0.16828911	0.190812954	0.0003937	0.01222348	0.010817436	1.41700178	0.072218101	0.101818616	0.000182004	0.005140444	0.004547901
Other	3.244857123	0.260427807	0.240851662	0.000401581	0.011860165	0.01049928	0	0	0	0	0	0	3.105684884	0.249258033	0.23052151	0.000384357	0.011351481	0.010048965
Parked Express	3.381499518	0.628093695	0.328235335	0.000220884	0.01271395	0.011292607	0	0	0	0	0	0	1.493753849	0.277456013	0.144995672	9.75738E-05	0.005616299	0.004988431
Parked Offsite	3.381499518	0.628093695	0.328235335	0.000220884	0.01271395	0.011292607	0	0	0	0	0	0	2.240630774	0.416184019	0.217493508	0.000146361	0.008424448	0.007482646
Parked Remote	3.381499518	0.628093695	0.328235335	0.000220884	0.01271395	0.011292607	0	0	0	0	0	0	0.995835899	0.184970675	0.096663781	6.50492E-05	0.003744199	0.00332562
Parked Terminal	1.662126929	0.07987667	0.118074909	0.000204879	0.005656816	0.005004402	2.494793061	0.16828911	0.190812954	0.0003937	0.01222348	0.010817436	22.41439179	1.142359053	1.610585379	0.002878965	0.081312475	0.07193952
Parked Valet	1.662126929	0.07987667	0.118074909	0.000204879	0.005656816	0.005004402	2.494793061	0.16828911	0.190812954	0.0003937	0.01222348	0.010817436	4.637460371	0.236350149	0.333224561	0.000595648	0.016823271	0.014884039
Rental Car	3.381499518	0.628093695	0.328235335	0.000220884	0.01271395	0.011292607	0	0	0	0	0	0	1.991671799	0.36994135	0.193327563	0.000130098	0.007488399	0.006651241
Shared Ride Shuttle	3.381499518	0.628093695	0.328235335	0.000220884	0.01271395	0.011292607	0	0	0	0	0	0	1.244794874	0.231213344	0.120829727	8.13115E-05	0.004680249	0.004157026
Taxi	1.662126929	0.07987667	0.118074909	0.000204879	0.005656816	0.005004402	2.494793061	0.16828911	0.190812954	0.0003937	0.01222348	0.010817436	3.735731966	0.190393176	0.268430896	0.000479828	0.013552079	0.01198992
Uber/Lyft	1.662126929	0.07987667	0.118074909	0.000204879	0.005656816	0.005004402	2.494793061	0.16828911	0.190812954	0.0003937	0.01222348	0.010817436	38.25904806	1.949888729	2.74910263	0.004914096	0.138791983	0.122793319
Employee Parking	3.381499518	0.628093695	0.328235335	0.000220884	0.01271395	0.011292607	0	0	0	0	0	0	0.49791795	0.092485338	0.048331891	3.25246E-05	0.0018721	0.00166281
TOTAL (Tons Per Year)													110.8321542	7.35019324	19.31635519	0.013466733	0.403729144	0.357353153

VTYPE 1 and VTYPE 2 Check	*53,732,614* *YES*

Mode	Proposed Action 2036 Starts	Vehicle Type	MOVES Vehicle Type 1	MOVES Vehicle Type 1 Starts	MOVES Vehicle Type 2	MOVES Vehicle Type 2 Starts
Drop off/Pickup		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Hotel Shuttle		Shuttle	Other Buses		--	
Limo		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Other		Utility Vehicles/Pass Thru cars	Light Commercial Truck		--	
Parked Express	***200,370***	***Shuttles***	***Other Buses***	***200,370***	--	***0***
Parked Offsite	***300,555***	***Shuttles***	***Other Buses***	***300,555***	--	***0***
Parked Remote	***133,580***	***Bus***	***Other Buses***	***133,580***	--	***0***
Parked Terminal	***5,810,736***	***Passenger Cars/SUV***	***Passenger Car***	***5,199,732***	***Passenger Truck***	***611,004***
Parked Valet	***1,202,221***	***Passenger Cars/SUV***	***Passenger Car***	***1,075,807***	***Passenger Truck***	***126,415***
Rental Car		Bus	Other Buses		--	
Shared Ride Shuttle		Shuttle	Other Buses		--	
Taxi		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Uber/Lyft		Passenger Cars/SUV	Passenger Car		Passenger Truck	
Employee Parking		Bus	Other Buses		--	
TOTAL	7,647,463			6,910,045		737,419

	MOVES Vehicle Type 1 ONROAD EVAPS EMISSION RATES (grams/vehicle-day)						MOVES Vehicle Type 2 ONROAD EVAPS EMISSION RATES (grams/vehicle-day)						MOVES ONROAD EMISSIONS					
Mode	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total	CO	NOx	VOCs	SO2	Primary Exhaust PM10 - Total	Primary Exhaust PM2.5 - Total
Drop off/Pickup	0	0	1.266704023	0	0	0	0	0	2.392531544	0	0	0	0	0	0	0	0	0
Hotel Shuttle	0	0	0.481030516	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Limo	0	0	1.266704023	0	0	0	0	0	2.392531544	0	0	0	0	0	0	0	0	0
Other	0	0	2.263093226	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Parked Express	***0***	***0***	***0.481030516***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***	***0***	***0***	***0.106245939***	***0***	***0***	***0***
Parked Offsite	***0***	***0***	***0.481030516***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***	***0***	***0***	***0.159368909***	***0***	***0***	***0***
Parked Remote	***0***	***0***	***0.481030516***	***0***	***0***	***0***	***0***	***0***		***0***	***0***	***0***	***0***	***0***	***0.070830626***	***0***	***0***	***0***
Parked Terminal	***0***	***0***	***1.266704023***	***0***	***0***	***0***	***0***	***0***	***2.392531544***	***0***	***0***	***0***	***0***	***0***	***8.871854011***	***0***	***0***	***0***
Parked Valet	***0***	***0***	***1.266704023***	***0***	***0***	***0***	***0***	***0***	***2.392531544***	***0***	***0***	***0***	***0***	***0***	***1.835556002***	***0***	***0***	***0***
Rental Car	0	0	0.481030516	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Shared Ride Shuttle	0	0	0.481030516	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Taxi	0	0	1.266704023	0	0	0	0	0	2.392531544	0	0	0	0	0	0	0	0	0
Uber/Lyft	0	0	1.266704023	0	0	0	0	0	2.392531544	0	0	0	0	0	0	0	0	0
Employee Parking	0	0	0.481030516	0	0	0	0	0		0	0	0	0	0	0	0	0	0
TOTAL (Tons Per Year)													0	0	11.04385549	0	0	0

11.04385549

VTYPE 1 and VTYPE 2 Check	*7,647,463* *NO*