

*Appendix B*  
*Air Quality Construction and*  
*Operational Emission*  
*Calculation and Methodology*

## **CONSTRUCTION EMISSIONS**

Construction emissions were estimated by using the BAAQMD approved CalEEMod model, version 2013.2.2, see Attachment C-1 of this Appendix. The CalEEMod model uses information about the acreage and land use of a facility to estimate project-related emissions. The land use was characterized as “general light industry.”

The construction inputs are in the form of a timeline, showing the duration of each phase of construction. The project construction would involve the installation of cable fibers, vaults, and cabinets, as well as the installation of prefabricated Google Fiber Huts. Because the construction for all of these installations would be happening at the same time, the start date is the same for all of the construction phases. The CalEEMod construction phases include trenching, directional drilling, rock sawing, and aerial installation for fiber cable installation as well as a cabinet and vault installation construction phase for those two activities. All CalEEMod construction phase descriptions are listed as grading so the acres disturbed page can be used to calculate fugitive emissions. The scheduled time for each of these construction phases is consistent with the schedules listed in the project description. A maximum of 260 days per year is assumed, consistent with CalEEMod defaults. For Google Fiber Huts, construction activities would involve site preparation and grading for the location where the hut would be placed, and then cable fiber installation afterwards. A separate CalEEMod run was created to calculate the emissions from the hut installation in order to more accurately calculate the schedule and emissions, see Attachment C-2 of this Appendix. The CalEEMod construction phases correspond to the activities above (site preparation, grading, hut installation, and fiber cable preparation). The CalEEMod construction phase descriptions are site preparation and building construction. The construction period is scheduled to take 60 days, consistent with the project description. Because the Google Fiber Hut is prefabricated and would be placed into an existing commercial building, the site preparation would take only the first day of the total 60 days. The remaining 59 days would be spent setting up the hut with the fiber cables to be functional.

For each construction phase the off-road equipment and hours of use is based on the equipment listed in the project description and CalEEMod defaults. Any deviation from the project description and CalEEMod defaults is explained below. Each phase's equipment and hours of use is listed below in detail.

Fiber Cable Installation, Vault Installation, and Cabinet Installation Construction Phases:

- A. Trenching:

- a. 1 trencher: 0.5 hours/day. *The hours of use is not a CalEEMod default because the construction contractor estimated the trencher would run 1 hour per day. This is 50% of that because half of the underground cable fiber installation is assumed to happen in the rock sawing construction phase.*
- b. 1 excavator: 2 hours/day. *The hours of use is not a CalEEMod default because the construction contractor estimated the excavator would run 4 hours per day. This is 50% of that because half of the underground cable fiber installation is assumed to happen in the rock sawing construction phase.*
- c. 1 backhoe: 0.5 hours/day. *The hours of use is not a CalEEMod default because the construction contractor estimated the backhoe would run 1 hour per day. This is 50% of that because half of the underground cable fiber installation is assumed to happen in the rock sawing construction phase.*

B. Directional Drilling:

- a. 1 bore: 4 hours/day. *The hours of use is not a CalEEMod default because the construction contractor estimated the bore would run 4 hours per day.*
- b. 1 backhoe: 1 hour/day. *The hours of use is not a CalEEMod default because the construction contractor estimated the backhoe would run 1 hour per day.*

C. Vault Installation:

- a. 1 backhoe: *This equipment is not listed in the project description, but assumed to be used to dig the holes for vault installation. The hours of use is not a CalEEMod default because the construction contractor estimated the backhoe would run 1 hour per day.*

D. Cabinet Installation:

- a. No off-road equipment used.

E. Aerial Installation:

- a. No off-road equipment used.

F. Rock Sawing:

- a. 1 concrete saw: 1 hour/day. *The hours of use is not a CalEEMod default because the construction contractor estimated the concrete saw would run 1 hour per day.*

Google Fiber Hut Installation Construction Phases:

A. Hut Site Preparation:

- a. No off-road equipment used.

B. Hut Fiber Cable Preparation:

- a. No off-road equipment used.

The total acres disturbed for each construction phase was calculated using the length of construction multiplied by the width of the area disturbed. The length and width are

consistent with the project description. The calculations are shown in Attachment C-3 of this Appendix.

For trips and vehicle miles traveled, information is based on the project description and CalEEMod defaults. In general, the trips per day are based on the crew size listed in the project description and additional vehicles needed for construction (i.e. dump trucks). Any deviation from the project description or CalEEMod defaults is explained below. Each phase's trips and vehicle miles traveled are listed in detail below.

Fiber Cable Installation, Vault Installation, and Cabinet Installation Construction Phases:

A. Trenching:

- a. 14 worker trips/day: 12.4 miles/trip.
- b. 4 vendor trips/day: 7.8 miles/trip. *This is an additional 0.25 miles on top of the CalEEmod default trip length for each vendor truck (1 mile total) to account for the onsite vehicle miles traveled. These vendor trips are to account for the vehicle miles traveled from the 2 flatbed trucks traveling back and forth from the vendor location.*

B. Directional Drilling:

- a. 14 worker trips/day: 12.4 miles/trip.

C. Vault Installation:

- a. 8 worker trips/day: 12.4 miles/trip.

D. Cabinet Installation:

- a. 12 worker trips/day: 12.4 miles/trip.

E. Aerial Installation:

- a. 14 worker trips/day: 12.4 miles/trip.
- b. 2 vendor trips/day: 7.55 miles/trip. *This is an additional 0.25 miles on top of the CalEEmod default trip length for each vendor truck (0.5 miles total) to account for the onsite vehicle miles traveled. These vendor trips are to account for the bucket truck travelling down the street to install the fiber cables aerially.*

F. Rock Sawing:

- a. 22 worker trips/day: 12.4 miles/trip.
- b. 4 vendor trips/day: 7.8 miles/trip. *This is an additional 0.25 miles on top of the CalEEmod default trip length for each vendor truck (1 mile total) to account for the onsite vehicle miles traveled. These vendor trips are to account for the vehicle miles traveled from the 2 flatbed trucks traveling back and forth from the vendor location.*
- c. 30 hauling trips/day: 20 miles/trip. *These hauling trips are to account for the hauling trips required to export the soil from the rock sawing.*

Hut Installation:

A. Hut Site Preparation

- a. 12 worker trips/day: 12.4 miles/trip.
  - b. 2 hauling trips/day: 20 miles/trip. *These hauling trips are to account for the hauling trips required to bring the prefabricated huts to the commercial building locations.*
- B. Hut Fiber Cable Prep
- a. 12 worker trips/day: 12.4 miles/trip.

The utility trucks used for each of the construction phases were not included in the CalEEMod run because it was more accurate to calculate their emissions and replicate their vehicle miles traveled outside of CalEEMod. The calculation for how many miles per year would be traveled is based on the amount of utility trucks per construction phase, the hours used onsite per day, the speed traveled on site, the vendor trip mileage and trips per day, and days used per year. The number of utility trucks per construction phase and vendor trips per day are based on the project description. It is assumed all utility trucks travel for 1 hour per day at 10 MPH onsite for all construction phases. The vendor trip mileage is based on CalEEMod default values. The emission factors are based off of the EMFAC vehicle category gasoline powered, 2015 model year Light Duty Automobile (LDA). The EMFAC emission factors are provided in Attachment C-4 of this Appendix. The calculation of the utility truck's emissions for each project phase is shown in Attachment C-5 of this Appendix.

All of the off-road equipment used is assumed to be tier 4 interim. All exposed areas would be watered 2 times a day. All disturbed paved roads would be returned to original condition and cleaned.

These CalEEMod runs and EMFAC VMT calculations estimate the annual emission from each of these construction phases for 1 crew per year. In order to account for the amount of crews working per year, conservatively, half of the peak crews listed in the project description are assumed to be working. If more than half of the peak crews are needed to complete the construction phase in the scheduled amount of time, than the minimum amount of crews needed to complete construction on time is assumed. Additionally, if the amount of crews assumed causes the construction to finish faster than the allotted time described in the project description, the amount of days per year of construction is scaled back to this value.

To calculate annual emissions, the amount of crews assumed for each phase is multiplied by the sum of the CalEEMod and EMFAC VMT emissions for each phase. If the amount of crews assumed causes construction to finish faster than the scheduled amount of time, then the emissions are scaled by the ratio of this new value of days worked per year to the scheduled days worked per year. In order to calculate the max daily emissions, the annual emissions are divided by the amount of days worked per year. The CalEEMod run calculates half of the emissions per day for rock sawing and trenching because there is an assumed 50% split to complete the underground fiber cable installation. In order to account for both of these construction activities happening

on the same day, their CalEEMod emissions are doubled for the max daily value. Once each construction phase has its annual and daily emissions totaled, all of the construction phases are summed to estimate the total annual and daily emissions for the construction. These calculations are provided in Attachment C-6 of this Appendix.

## ***OPERATIONAL EMISSIONS***

The only operational emissions are the emergency backup natural gas generators located in the huts. These emissions were modeled in the CalEEMod Google Fiber Hut run. Each hut has one 40 HP natural gas powered generator. They would run for 0.5 hours per week for a total of 26 hours per year. The CalEEMod run only takes into account the operational emissions from 1 hut. The amount of huts in each city is multiplied by the CalEEMod hut emissions to obtain annual and daily emissions. These calculations are provided in Attachment C-6 of this Appendix.

*Attachment B-1*  
*CalEEMod-Output Files*

## Google Fiber

### Santa Clara County, Annual

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.40	1000sqft	0.03	1,400.00	0

### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - This is the projected schedule for each construction activity.

Off-road Equipment - This is in order to save VMT.

Off-road Equipment - The crane will only run for one full working day to place the hut down onto the ground.

Off-road Equipment - This is in order to save VMT equipment.

Off-road Equipment - Assume these hours/day. Assume 65 hp for bore/drill rig per matthew email. The grader is so fugitive dust emissions can be saved.

Off-road Equipment - Assume Rock Sawing equipment runs for half of normal daily hours of use because half of cable installation will be from trenching.

There is a grader in order to save dust fugitive emissions

Off-road Equipment - Assume the trenching equipment works 50% of normal daily hours because half of the work will be rocksawing. There is a grader in

order to save dust fugitive emissions

Off-road Equipment - assume the hours /day. There is a grader in order to save dust fugitive emissions.

Trips and VMT - Assume each of the two dump trucks travel a quarter mile onsite every day. Assume the bucket truck travels a quarter mile onsite every day.

Grading - The acres disturbed are based off the linear ft affected times the width of excavation.

Consumer Products - None

Area Coating - None

Landscape Equipment -

Construction Off-road Equipment Mitigation - Tier 4 final.

Mobile Commute Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	2.00	550.00
tblConstructionPhase	NumDays	2.00	600.00
tblConstructionPhase	NumDays	2.00	500.00
tblConstructionPhase	NumDays	2.00	50.00
tblConstructionPhase	NumDays	2.00	500.00
tblConstructionPhase	NumDays	2.00	550.00
tblConstructionPhase	PhaseEndDate	5/31/2019	4/21/2017
tblConstructionPhase	PhaseEndDate	3/22/2019	12/4/2016
tblConstructionPhase	PhaseEndDate	2/10/2017	3/13/2015

tblConstructionPhase	PhaseEndDate	2/10/2017	12/2/2016
tblConstructionPhase	PhaseEndDate	1/11/2019	2/10/2017
tblConstructionPhase	PhaseStartDate	2/11/2017	1/5/2015
tblConstructionPhase	PhaseStartDate	4/22/2017	1/5/2015
tblConstructionPhase	PhaseStartDate	12/5/2016	1/5/2015
tblConstructionPhase	PhaseStartDate	3/14/2015	1/5/2015
tblConstructionPhase	PhaseStartDate	12/3/2016	1/5/2015
tblEnergyUse	LightingElect	3.52	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	1.81	0.00
tblEnergyUse	T24NG	20.74	0.00
tblGrading	AcresOfGrading	0.00	23.40
tblGrading	AcresOfGrading	0.00	60.61
tblGrading	AcresOfGrading	0.00	2.83
tblGrading	AcresOfGrading	0.00	23.40
tblOffRoadEquipment	HorsePower	62.00	0.00
tblOffRoadEquipment	HorsePower	205.00	65.00
tblOffRoadEquipment	HorsePower	174.00	0.00
tblOffRoadEquipment	HorsePower	174.00	0.00
tblOffRoadEquipment	HorsePower	174.00	0.00
tblOffRoadEquipment	HorsePower	174.00	0.00
tblOffRoadEquipment	LoadFactor	0.31	0.00
tblOffRoadEquipment	LoadFactor	0.41	0.00
tblOffRoadEquipment	LoadFactor	0.41	0.00
tblOffRoadEquipment	LoadFactor	0.41	0.00
tblOffRoadEquipment	LoadFactor	0.41	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.50
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblSolidWaste	SolidWasteGenerationRate	1.74	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingVehicleClass	HHDT	HDT_Mix
tblTripsAndVMT	HaulingVehicleClass	HHDT	HDT_Mix
tblTripsAndVMT	HaulingVehicleClass	HHDT	HDT_Mix
tblTripsAndVMT	HaulingVehicleClass	HHDT	HDT_Mix
tblTripsAndVMT	VendorTripLength	7.30	7.80
tblTripsAndVMT	VendorTripLength	7.30	7.55
tblTripsAndVMT	VendorTripLength	7.30	7.80
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	14.00
tblTripsAndVMT	WorkerTripNumber	5.00	14.00
tblTripsAndVMT	WorkerTripNumber	3.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	3.00	22.00
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.86	2.77
tblVehicleEF	HHD	1.76	2.01
tblVehicleEF	HHD	74.75	82.76
tblVehicleEF	HHD	571.20	576.43
tblVehicleEF	HHD	1,692.26	1,715.33

tblVehicleEF	HHD	70.71	79.79
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	5.52	6.02
tblVehicleEF	HHD	7.32	8.58
tblVehicleEF	HHD	4.35	4.49
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.11	0.16
tblVehicleEF	HHD	6.5050e-003	9.1230e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6850e-003	8.6860e-003
tblVehicleEF	HHD	0.11	0.15
tblVehicleEF	HHD	5.1100e-003	7.0970e-003
tblVehicleEF	HHD	2.9840e-003	3.8660e-003
tblVehicleEF	HHD	0.24	0.32
tblVehicleEF	HHD	0.53	0.53
tblVehicleEF	HHD	1.4970e-003	1.8700e-003
tblVehicleEF	HHD	0.30	0.35
tblVehicleEF	HHD	0.90	1.18
tblVehicleEF	HHD	3.44	4.21
tblVehicleEF	HHD	5.5890e-003	5.5830e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0060e-003	2.2410e-003
tblVehicleEF	HHD	2.9840e-003	3.8660e-003
tblVehicleEF	HHD	0.24	0.32
tblVehicleEF	HHD	0.61	0.60
tblVehicleEF	HHD	1.4970e-003	1.8700e-003
tblVehicleEF	HHD	0.34	0.39

tblVehicleEF	HHD	0.90	1.18
tblVehicleEF	HHD	3.69	4.52
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.08	2.02
tblVehicleEF	HHD	1.77	2.02
tblVehicleEF	HHD	59.87	68.90
tblVehicleEF	HHD	605.14	610.68
tblVehicleEF	HHD	1,692.26	1,715.33
tblVehicleEF	HHD	70.71	79.79
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	5.70	6.21
tblVehicleEF	HHD	7.05	8.26
tblVehicleEF	HHD	4.07	4.19
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.11	0.16
tblVehicleEF	HHD	6.5050e-003	9.1230e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6850e-003	8.6860e-003
tblVehicleEF	HHD	0.11	0.15
tblVehicleEF	HHD	5.1100e-003	7.0970e-003
tblVehicleEF	HHD	7.6210e-003	9.9700e-003
tblVehicleEF	HHD	0.26	0.35
tblVehicleEF	HHD	0.50	0.50
tblVehicleEF	HHD	3.9070e-003	4.9820e-003
tblVehicleEF	HHD	0.30	0.35
tblVehicleEF	HHD	0.88	1.17

tblVehicleEF	HHD	2.71	3.29
tblVehicleEF	HHD	5.9210e-003	5.9150e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.7490e-003	1.9940e-003
tblVehicleEF	HHD	7.6210e-003	9.9700e-003
tblVehicleEF	HHD	0.26	0.35
tblVehicleEF	HHD	0.57	0.57
tblVehicleEF	HHD	3.9070e-003	4.9820e-003
tblVehicleEF	HHD	0.34	0.40
tblVehicleEF	HHD	0.88	1.17
tblVehicleEF	HHD	2.91	3.53
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	3.94	3.82
tblVehicleEF	HHD	1.76	2.02
tblVehicleEF	HHD	89.96	97.60
tblVehicleEF	HHD	524.34	529.14
tblVehicleEF	HHD	1,692.26	1,715.33
tblVehicleEF	HHD	70.71	79.79
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	5.27	5.75
tblVehicleEF	HHD	7.44	8.72
tblVehicleEF	HHD	4.59	4.73
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.11	0.16
tblVehicleEF	HHD	6.5050e-003	9.1230e-003
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.6850e-003	8.6860e-003
tblVehicleEF	HHD	0.11	0.15
tblVehicleEF	HHD	5.1100e-003	7.0970e-003
tblVehicleEF	HHD	1.3000e-003	1.6500e-003
tblVehicleEF	HHD	0.30	0.42
tblVehicleEF	HHD	0.57	0.57
tblVehicleEF	HHD	6.2800e-004	7.6100e-004
tblVehicleEF	HHD	0.30	0.35
tblVehicleEF	HHD	0.98	1.29
tblVehicleEF	HHD	4.15	5.11
tblVehicleEF	HHD	5.1310e-003	5.1250e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.2670e-003	2.5030e-003
tblVehicleEF	HHD	1.3000e-003	1.6500e-003
tblVehicleEF	HHD	0.30	0.42
tblVehicleEF	HHD	0.65	0.65
tblVehicleEF	HHD	6.2800e-004	7.6100e-004
tblVehicleEF	HHD	0.34	0.39
tblVehicleEF	HHD	0.98	1.29
tblVehicleEF	HHD	4.46	5.50
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	1.17	1.33
tblVehicleEF	LDA	2.65	3.02
tblVehicleEF	LDA	281.93	292.97
tblVehicleEF	LDA	64.02	66.26
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.17	0.20
tblVehicleEF	LDA	1.9000e-003	2.0680e-003

tblVehicleEF	LDA	2.9340e-003	3.0280e-003
tblVehicleEF	LDA	1.7380e-003	1.8860e-003
tblVehicleEF	LDA	2.6910e-003	2.7670e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.34	0.38
tblVehicleEF	LDA	0.21	0.25
tblVehicleEF	LDA	7.7900e-004	7.8500e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.34	0.38
tblVehicleEF	LDA	0.23	0.27
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	1.35	1.52
tblVehicleEF	LDA	1.84	2.11
tblVehicleEF	LDA	303.94	315.83
tblVehicleEF	LDA	64.02	66.26
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	0.15	0.18
tblVehicleEF	LDA	1.9000e-003	2.0680e-003
tblVehicleEF	LDA	2.9340e-003	3.0280e-003
tblVehicleEF	LDA	1.7380e-003	1.8860e-003
tblVehicleEF	LDA	2.6910e-003	2.7670e-003
tblVehicleEF	LDA	0.13	0.15

tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.32	0.36
tblVehicleEF	LDA	0.16	0.19
tblVehicleEF	LDA	7.6500e-004	7.6900e-004
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.32	0.36
tblVehicleEF	LDA	0.17	0.21
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	1.17	1.34
tblVehicleEF	LDA	3.24	3.69
tblVehicleEF	LDA	278.30	289.21
tblVehicleEF	LDA	64.02	66.26
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.19	0.22
tblVehicleEF	LDA	1.9000e-003	2.0680e-003
tblVehicleEF	LDA	2.9340e-003	3.0280e-003
tblVehicleEF	LDA	1.7380e-003	1.8860e-003
tblVehicleEF	LDA	2.6910e-003	2.7670e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.17	0.18
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.39	0.44

tblVehicleEF	LDA	0.25	0.29
tblVehicleEF	LDA	3.2770e-003	3.2780e-003
tblVehicleEF	LDA	7.8900e-004	7.9700e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.17	0.18
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.39	0.44
tblVehicleEF	LDA	0.27	0.31
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	3.08	3.43
tblVehicleEF	LDT1	6.28	6.85
tblVehicleEF	LDT1	337.02	347.50
tblVehicleEF	LDT1	75.79	78.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.33	0.36
tblVehicleEF	LDT1	0.33	0.36
tblVehicleEF	LDT1	4.4050e-003	4.7720e-003
tblVehicleEF	LDT1	5.4420e-003	5.7710e-003
tblVehicleEF	LDT1	4.0300e-003	4.3510e-003
tblVehicleEF	LDT1	4.9880e-003	5.2710e-003
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.34	0.35
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.09	0.11
tblVehicleEF	LDT1	1.27	1.34
tblVehicleEF	LDT1	0.49	0.54
tblVehicleEF	LDT1	3.8590e-003	3.8610e-003
tblVehicleEF	LDT1	9.5500e-004	9.6500e-004

tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.34	0.35
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.12	0.14
tblVehicleEF	LDT1	1.27	1.34
tblVehicleEF	LDT1	0.52	0.58
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	3.45	3.82
tblVehicleEF	LDT1	4.39	4.80
tblVehicleEF	LDT1	361.11	372.24
tblVehicleEF	LDT1	75.79	78.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	0.30	0.32
tblVehicleEF	LDT1	4.4050e-003	4.7720e-003
tblVehicleEF	LDT1	5.4420e-003	5.7710e-003
tblVehicleEF	LDT1	4.0300e-003	4.3510e-003
tblVehicleEF	LDT1	4.9880e-003	5.2710e-003
tblVehicleEF	LDT1	0.37	0.39
tblVehicleEF	LDT1	0.40	0.42
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	1.18	1.23
tblVehicleEF	LDT1	0.38	0.42
tblVehicleEF	LDT1	4.1400e-003	4.1410e-003
tblVehicleEF	LDT1	9.2100e-004	9.2900e-004
tblVehicleEF	LDT1	0.37	0.39
tblVehicleEF	LDT1	0.40	0.42
tblVehicleEF	LDT1	0.23	0.24

tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	1.18	1.23
tblVehicleEF	LDT1	0.40	0.45
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	3.10	3.47
tblVehicleEF	LDT1	7.67	8.36
tblVehicleEF	LDT1	333.05	343.42
tblVehicleEF	LDT1	75.79	78.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.36	0.39
tblVehicleEF	LDT1	0.36	0.39
tblVehicleEF	LDT1	4.4050e-003	4.7720e-003
tblVehicleEF	LDT1	5.4420e-003	5.7710e-003
tblVehicleEF	LDT1	4.0300e-003	4.3510e-003
tblVehicleEF	LDT1	4.9880e-003	5.2710e-003
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.38	0.39
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.09	0.11
tblVehicleEF	LDT1	1.58	1.65
tblVehicleEF	LDT1	0.58	0.64
tblVehicleEF	LDT1	3.8140e-003	3.8170e-003
tblVehicleEF	LDT1	9.7900e-004	9.9200e-004
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.38	0.39
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.12	0.14
tblVehicleEF	LDT1	1.58	1.65
tblVehicleEF	LDT1	0.61	0.68

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.60	1.79
tblVehicleEF	LDT2	3.78	4.21
tblVehicleEF	LDT2	405.09	416.99
tblVehicleEF	LDT2	90.98	93.34
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	0.34	0.39
tblVehicleEF	LDT2	1.8460e-003	1.9770e-003
tblVehicleEF	LDT2	2.8480e-003	2.9010e-003
tblVehicleEF	LDT2	1.6920e-003	1.8070e-003
tblVehicleEF	LDT2	2.6200e-003	2.6610e-003
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.58	0.61
tblVehicleEF	LDT2	0.28	0.32
tblVehicleEF	LDT2	4.5300e-003	4.5330e-003
tblVehicleEF	LDT2	1.0660e-003	1.0720e-003
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.58	0.61
tblVehicleEF	LDT2	0.30	0.34
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.84	2.05

tblVehicleEF	LDT2	2.62	2.92
tblVehicleEF	LDT2	435.66	448.41
tblVehicleEF	LDT2	90.98	93.34
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.31	0.35
tblVehicleEF	LDT2	1.8460e-003	1.9770e-003
tblVehicleEF	LDT2	2.8480e-003	2.9010e-003
tblVehicleEF	LDT2	1.6920e-003	1.8070e-003
tblVehicleEF	LDT2	2.6200e-003	2.6610e-003
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.53	0.56
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	4.8750e-003	4.8780e-003
tblVehicleEF	LDT2	1.0450e-003	1.0500e-003
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.53	0.56
tblVehicleEF	LDT2	0.23	0.26
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.60	1.79
tblVehicleEF	LDT2	4.63	5.15
tblVehicleEF	LDT2	400.05	411.82
tblVehicleEF	LDT2	90.98	93.34

tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.23	0.26
tblVehicleEF	LDT2	0.37	0.42
tblVehicleEF	LDT2	1.8460e-003	1.9770e-003
tblVehicleEF	LDT2	2.8480e-003	2.9010e-003
tblVehicleEF	LDT2	1.6920e-003	1.8070e-003
tblVehicleEF	LDT2	2.6200e-003	2.6610e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.70	0.75
tblVehicleEF	LDT2	0.33	0.38
tblVehicleEF	LDT2	4.4730e-003	4.4770e-003
tblVehicleEF	LDT2	1.0810e-003	1.0890e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.70	0.75
tblVehicleEF	LDT2	0.35	0.40
tblVehicleEF	LHD1	1.2890e-003	1.2950e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.19	0.19
tblVehicleEF	LHD1	2.41	2.62
tblVehicleEF	LHD1	5.85	6.15
tblVehicleEF	LHD1	8.37	8.46
tblVehicleEF	LHD1	836.30	844.87
tblVehicleEF	LHD1	43.42	43.71

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	1.43	1.53
tblVehicleEF	LHD1	1.40	1.42
tblVehicleEF	LHD1	5.4900e-004	5.5600e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.0230e-003	9.0250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.4550e-003	1.5650e-003
tblVehicleEF	LHD1	5.0500e-004	5.1200e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.3400e-003	1.4390e-003
tblVehicleEF	LHD1	2.7510e-003	2.7900e-003
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2830e-003	1.2700e-003
tblVehicleEF	LHD1	0.21	0.23
tblVehicleEF	LHD1	0.63	0.63
tblVehicleEF	LHD1	0.50	0.52
tblVehicleEF	LHD1	8.5420e-003	8.5450e-003
tblVehicleEF	LHD1	5.5200e-004	5.5600e-004
tblVehicleEF	LHD1	2.7510e-003	2.7900e-003
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2830e-003	1.2700e-003
tblVehicleEF	LHD1	0.24	0.26
tblVehicleEF	LHD1	0.63	0.63
tblVehicleEF	LHD1	0.53	0.56
tblVehicleEF	LHD1	1.2890e-003	1.2950e-003

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.19	0.19
tblVehicleEF	LHD1	2.48	2.70
tblVehicleEF	LHD1	4.15	4.36
tblVehicleEF	LHD1	8.37	8.46
tblVehicleEF	LHD1	836.30	844.87
tblVehicleEF	LHD1	43.42	43.71
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	1.35	1.44
tblVehicleEF	LHD1	1.31	1.33
tblVehicleEF	LHD1	5.4900e-004	5.5600e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.0230e-003	9.0250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.4550e-003	1.5650e-003
tblVehicleEF	LHD1	5.0500e-004	5.1200e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.3400e-003	1.4390e-003
tblVehicleEF	LHD1	6.5080e-003	6.6520e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9370e-003	2.9630e-003
tblVehicleEF	LHD1	0.22	0.23
tblVehicleEF	LHD1	0.61	0.61
tblVehicleEF	LHD1	0.41	0.43
tblVehicleEF	LHD1	8.5430e-003	8.5470e-003
tblVehicleEF	LHD1	5.2300e-004	5.2500e-004

tblVehicleEF	LHD1	6.5080e-003	6.6520e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9370e-003	2.9630e-003
tblVehicleEF	LHD1	0.25	0.27
tblVehicleEF	LHD1	0.61	0.61
tblVehicleEF	LHD1	0.44	0.46
tblVehicleEF	LHD1	1.2890e-003	1.2950e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.19	0.19
tblVehicleEF	LHD1	2.37	2.58
tblVehicleEF	LHD1	7.48	7.87
tblVehicleEF	LHD1	8.37	8.46
tblVehicleEF	LHD1	836.30	844.87
tblVehicleEF	LHD1	43.42	43.71
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	1.47	1.57
tblVehicleEF	LHD1	1.47	1.49
tblVehicleEF	LHD1	5.4900e-004	5.5600e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.0230e-003	9.0250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.4550e-003	1.5650e-003
tblVehicleEF	LHD1	5.0500e-004	5.1200e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.3400e-003	1.4390e-003
tblVehicleEF	LHD1	1.3030e-003	1.3080e-003

tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	6.2100e-004	6.0500e-004
tblVehicleEF	LHD1	0.21	0.22
tblVehicleEF	LHD1	0.70	0.70
tblVehicleEF	LHD1	0.58	0.61
tblVehicleEF	LHD1	8.5410e-003	8.5440e-003
tblVehicleEF	LHD1	5.8000e-004	5.8600e-004
tblVehicleEF	LHD1	1.3030e-003	1.3080e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	6.2100e-004	6.0500e-004
tblVehicleEF	LHD1	0.24	0.26
tblVehicleEF	LHD1	0.70	0.70
tblVehicleEF	LHD1	0.62	0.65
tblVehicleEF	LHD2	9.6200e-004	9.6700e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	1.86	2.10
tblVehicleEF	LHD2	3.66	3.96
tblVehicleEF	LHD2	9.35	9.45
tblVehicleEF	LHD2	705.09	711.57
tblVehicleEF	LHD2	27.67	28.02
tblVehicleEF	LHD2	4.4650e-003	4.5060e-003
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	2.39	2.55
tblVehicleEF	LHD2	0.84	0.86
tblVehicleEF	LHD2	1.2390e-003	1.2510e-003
tblVehicleEF	LHD2	0.07	0.07

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	1.0280e-003	1.1770e-003
tblVehicleEF	LHD2	1.1400e-003	1.1510e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.5570e-003	2.5600e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	9.1800e-004	1.0440e-003
tblVehicleEF	LHD2	1.7610e-003	1.8600e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0400e-004	8.2700e-004
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	LHD2	0.43	0.45
tblVehicleEF	LHD2	0.32	0.34
tblVehicleEF	LHD2	7.1140e-003	7.1090e-003
tblVehicleEF	LHD2	3.5100e-004	3.5700e-004
tblVehicleEF	LHD2	1.7610e-003	1.8600e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0400e-004	8.2700e-004
tblVehicleEF	LHD2	0.23	0.25
tblVehicleEF	LHD2	0.43	0.45
tblVehicleEF	LHD2	0.34	0.37
tblVehicleEF	LHD2	9.6200e-004	9.6700e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	1.88	2.12
tblVehicleEF	LHD2	2.66	2.89

tblVehicleEF	LHD2	9.35	9.45
tblVehicleEF	LHD2	705.10	711.57
tblVehicleEF	LHD2	27.67	28.02
tblVehicleEF	LHD2	4.4650e-003	4.5060e-003
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	2.28	2.44
tblVehicleEF	LHD2	0.79	0.81
tblVehicleEF	LHD2	1.2390e-003	1.2510e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	1.0280e-003	1.1770e-003
tblVehicleEF	LHD2	1.1400e-003	1.1510e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.5570e-003	2.5600e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	9.1800e-004	1.0440e-003
tblVehicleEF	LHD2	4.2010e-003	4.4780e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8740e-003	1.9700e-003
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	LHD2	0.42	0.43
tblVehicleEF	LHD2	0.26	0.28
tblVehicleEF	LHD2	7.1140e-003	7.1100e-003
tblVehicleEF	LHD2	3.3300e-004	3.3800e-004
tblVehicleEF	LHD2	4.2010e-003	4.4780e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8740e-003	1.9700e-003

tblVehicleEF	LHD2	0.23	0.25
tblVehicleEF	LHD2	0.42	0.43
tblVehicleEF	LHD2	0.28	0.30
tblVehicleEF	LHD2	9.6200e-004	9.6700e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	1.87	2.11
tblVehicleEF	LHD2	4.61	4.99
tblVehicleEF	LHD2	9.35	9.45
tblVehicleEF	LHD2	705.10	711.57
tblVehicleEF	LHD2	27.67	28.02
tblVehicleEF	LHD2	4.4650e-003	4.5060e-003
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	2.43	2.60
tblVehicleEF	LHD2	0.89	0.91
tblVehicleEF	LHD2	1.2390e-003	1.2510e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	1.0280e-003	1.1770e-003
tblVehicleEF	LHD2	1.1400e-003	1.1510e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.5570e-003	2.5600e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	9.1800e-004	1.0440e-003
tblVehicleEF	LHD2	8.3000e-004	8.6500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.8700e-004	3.9000e-004

tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	LHD2	0.48	0.50
tblVehicleEF	LHD2	0.37	0.40
tblVehicleEF	LHD2	7.1140e-003	7.1090e-003
tblVehicleEF	LHD2	3.6700e-004	3.7500e-004
tblVehicleEF	LHD2	8.3000e-004	8.6500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.8700e-004	3.9000e-004
tblVehicleEF	LHD2	0.23	0.25
tblVehicleEF	LHD2	0.48	0.50
tblVehicleEF	LHD2	0.39	0.43
tblVehicleEF	MCY	26.66	28.00
tblVehicleEF	MCY	10.52	10.43
tblVehicleEF	MCY	146.22	144.93
tblVehicleEF	MCY	44.82	46.24
tblVehicleEF	MCY	5.9710e-003	5.9200e-003
tblVehicleEF	MCY	1.25	1.27
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	6.6100e-004	7.9400e-004
tblVehicleEF	MCY	1.8340e-003	2.1640e-003
tblVehicleEF	MCY	5.3200e-004	6.3500e-004
tblVehicleEF	MCY	1.4570e-003	1.7060e-003
tblVehicleEF	MCY	0.03	0.03
tblVehicleEF	MCY	0.45	0.48
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	2.65	2.71
tblVehicleEF	MCY	1.67	1.84
tblVehicleEF	MCY	2.31	2.34

tblVehicleEF	MCY	2.0020e-003	1.9960e-003
tblVehicleEF	MCY	6.9800e-004	7.0700e-004
tblVehicleEF	MCY	0.03	0.03
tblVehicleEF	MCY	0.45	0.48
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	2.90	2.96
tblVehicleEF	MCY	1.67	1.84
tblVehicleEF	MCY	2.48	2.52
tblVehicleEF	MCY	25.42	26.65
tblVehicleEF	MCY	8.80	8.79
tblVehicleEF	MCY	146.22	144.93
tblVehicleEF	MCY	44.82	46.24
tblVehicleEF	MCY	5.9710e-003	5.9200e-003
tblVehicleEF	MCY	1.10	1.11
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	6.6100e-004	7.9400e-004
tblVehicleEF	MCY	1.8340e-003	2.1640e-003
tblVehicleEF	MCY	5.3200e-004	6.3500e-004
tblVehicleEF	MCY	1.4570e-003	1.7060e-003
tblVehicleEF	MCY	0.09	0.09
tblVehicleEF	MCY	0.62	0.65
tblVehicleEF	MCY	0.05	0.05
tblVehicleEF	MCY	2.53	2.58
tblVehicleEF	MCY	1.55	1.71
tblVehicleEF	MCY	1.87	1.90
tblVehicleEF	MCY	1.9780e-003	1.9710e-003
tblVehicleEF	MCY	6.5700e-004	6.6700e-004
tblVehicleEF	MCY	0.09	0.09
tblVehicleEF	MCY	0.62	0.65

tblVehicleEF	MCY	0.05	0.05
tblVehicleEF	MCY	2.78	2.82
tblVehicleEF	MCY	1.55	1.71
tblVehicleEF	MCY	2.01	2.04
tblVehicleEF	MCY	29.10	30.61
tblVehicleEF	MCY	12.30	12.15
tblVehicleEF	MCY	146.22	144.93
tblVehicleEF	MCY	44.82	46.24
tblVehicleEF	MCY	5.9710e-003	5.9200e-003
tblVehicleEF	MCY	1.34	1.36
tblVehicleEF	MCY	0.34	0.34
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	6.6100e-004	7.9400e-004
tblVehicleEF	MCY	1.8340e-003	2.1640e-003
tblVehicleEF	MCY	5.3200e-004	6.3500e-004
tblVehicleEF	MCY	1.4570e-003	1.7060e-003
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	0.54	0.59
tblVehicleEF	MCY	5.5570e-003	5.7020e-003
tblVehicleEF	MCY	2.78	2.85
tblVehicleEF	MCY	2.03	2.22
tblVehicleEF	MCY	2.72	2.76
tblVehicleEF	MCY	2.0440e-003	2.0420e-003
tblVehicleEF	MCY	7.3900e-004	7.4800e-004
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	0.54	0.59
tblVehicleEF	MCY	5.5570e-003	5.7020e-003
tblVehicleEF	MCY	3.04	3.11
tblVehicleEF	MCY	2.03	2.22
tblVehicleEF	MCY	2.92	2.97

tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.45	2.60
tblVehicleEF	MDV	6.41	6.79
tblVehicleEF	MDV	526.56	538.78
tblVehicleEF	MDV	117.43	119.69
tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.36	0.39
tblVehicleEF	MDV	0.58	0.62
tblVehicleEF	MDV	2.2280e-003	2.3140e-003
tblVehicleEF	MDV	3.6020e-003	3.6710e-003
tblVehicleEF	MDV	2.0520e-003	2.1290e-003
tblVehicleEF	MDV	3.3230e-003	3.3840e-003
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.70	0.69
tblVehicleEF	MDV	0.55	0.59
tblVehicleEF	MDV	5.7510e-003	5.7470e-003
tblVehicleEF	MDV	1.3730e-003	1.3780e-003
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.70	0.69
tblVehicleEF	MDV	0.59	0.63
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.81	2.99

tblVehicleEF	MDV	4.44	4.71
tblVehicleEF	MDV	565.73	578.80
tblVehicleEF	MDV	117.43	119.69
tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.52	0.55
tblVehicleEF	MDV	2.2280e-003	2.3140e-003
tblVehicleEF	MDV	3.6020e-003	3.6710e-003
tblVehicleEF	MDV	2.0520e-003	2.1290e-003
tblVehicleEF	MDV	3.3230e-003	3.3840e-003
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.23	0.23
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.65	0.64
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	6.1840e-003	6.1790e-003
tblVehicleEF	MDV	1.3390e-003	1.3410e-003
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.23	0.23
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.65	0.64
tblVehicleEF	MDV	0.46	0.49
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.44	2.60
tblVehicleEF	MDV	7.86	8.32
tblVehicleEF	MDV	520.10	532.18
tblVehicleEF	MDV	117.43	119.69

tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.39	0.43
tblVehicleEF	MDV	0.63	0.67
tblVehicleEF	MDV	2.2280e-003	2.3140e-003
tblVehicleEF	MDV	3.6020e-003	3.6710e-003
tblVehicleEF	MDV	2.0520e-003	2.1290e-003
tblVehicleEF	MDV	3.3230e-003	3.3840e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.22	0.21
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.85	0.84
tblVehicleEF	MDV	0.65	0.69
tblVehicleEF	MDV	5.6810e-003	5.6770e-003
tblVehicleEF	MDV	1.3990e-003	1.4050e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.22	0.21
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.85	0.84
tblVehicleEF	MDV	0.70	0.74
tblVehicleEF	MH	6.35	7.62
tblVehicleEF	MH	11.82	12.79
tblVehicleEF	MH	728.15	736.07
tblVehicleEF	MH	35.11	35.57
tblVehicleEF	MH	1.7620e-003	1.7650e-003
tblVehicleEF	MH	1.91	2.05
tblVehicleEF	MH	1.10	1.17
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5330e-003	8.5380e-003

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.4310e-003	1.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1330e-003	2.1340e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.3120e-003	1.4670e-003
tblVehicleEF	MH	3.1050e-003	3.3220e-003
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	1.0230e-003	1.0840e-003
tblVehicleEF	MH	0.23	0.28
tblVehicleEF	MH	2.68	2.75
tblVehicleEF	MH	0.63	0.68
tblVehicleEF	MH	7.4900e-003	7.5160e-003
tblVehicleEF	MH	5.6500e-004	5.8300e-004
tblVehicleEF	MH	3.1050e-003	3.3220e-003
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	1.0230e-003	1.0840e-003
tblVehicleEF	MH	0.27	0.32
tblVehicleEF	MH	2.68	2.75
tblVehicleEF	MH	0.67	0.72
tblVehicleEF	MH	6.46	7.73
tblVehicleEF	MH	8.05	8.67
tblVehicleEF	MH	728.15	736.07
tblVehicleEF	MH	35.11	35.57
tblVehicleEF	MH	1.7620e-003	1.7650e-003
tblVehicleEF	MH	1.77	1.89
tblVehicleEF	MH	1.04	1.10
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5330e-003	8.5380e-003
tblVehicleEF	MH	0.03	0.03

tblVehicleEF	MH	1.4310e-003	1.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1330e-003	2.1340e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.3120e-003	1.4670e-003
tblVehicleEF	MH	7.2360e-003	7.7950e-003
tblVehicleEF	MH	0.11	0.12
tblVehicleEF	MH	2.2950e-003	2.4720e-003
tblVehicleEF	MH	0.24	0.28
tblVehicleEF	MH	2.61	2.68
tblVehicleEF	MH	0.49	0.52
tblVehicleEF	MH	7.4920e-003	7.5170e-003
tblVehicleEF	MH	5.0100e-004	5.1300e-004
tblVehicleEF	MH	7.2360e-003	7.7950e-003
tblVehicleEF	MH	0.11	0.12
tblVehicleEF	MH	2.2950e-003	2.4720e-003
tblVehicleEF	MH	0.28	0.32
tblVehicleEF	MH	2.61	2.68
tblVehicleEF	MH	0.52	0.56
tblVehicleEF	MH	6.39	7.71
tblVehicleEF	MH	15.50	16.85
tblVehicleEF	MH	728.15	736.07
tblVehicleEF	MH	35.11	35.57
tblVehicleEF	MH	1.7620e-003	1.7650e-003
tblVehicleEF	MH	1.99	2.14
tblVehicleEF	MH	1.16	1.23
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5330e-003	8.5380e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.4310e-003	1.6040e-003

tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1330e-003	2.1340e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.3120e-003	1.4670e-003
tblVehicleEF	MH	1.4560e-003	1.5420e-003
tblVehicleEF	MH	0.13	0.14
tblVehicleEF	MH	5.3400e-004	5.5900e-004
tblVehicleEF	MH	0.23	0.28
tblVehicleEF	MH	2.88	2.95
tblVehicleEF	MH	0.76	0.83
tblVehicleEF	MH	7.4910e-003	7.5170e-003
tblVehicleEF	MH	6.2700e-004	6.5100e-004
tblVehicleEF	MH	1.4560e-003	1.5420e-003
tblVehicleEF	MH	0.13	0.14
tblVehicleEF	MH	5.3400e-004	5.5900e-004
tblVehicleEF	MH	0.28	0.32
tblVehicleEF	MH	2.88	2.95
tblVehicleEF	MH	0.81	0.88
tblVehicleEF	MHD	7.8930e-003	9.6350e-003
tblVehicleEF	MHD	8.8990e-003	0.01
tblVehicleEF	MHD	1.87	2.03
tblVehicleEF	MHD	1.46	1.77
tblVehicleEF	MHD	27.16	29.48
tblVehicleEF	MHD	608.97	606.00
tblVehicleEF	MHD	1,086.81	1,101.54
tblVehicleEF	MHD	61.12	64.04
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.65	7.19
tblVehicleEF	MHD	4.20	5.12
tblVehicleEF	MHD	2.42	2.57

tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.11	0.14
tblVehicleEF	MHD	4.7040e-003	5.6080e-003
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.10	0.13
tblVehicleEF	MHD	3.9530e-003	4.6700e-003
tblVehicleEF	MHD	3.6160e-003	3.9910e-003
tblVehicleEF	MHD	0.18	0.21
tblVehicleEF	MHD	0.17	0.21
tblVehicleEF	MHD	1.6770e-003	1.8220e-003
tblVehicleEF	MHD	0.23	0.30
tblVehicleEF	MHD	0.78	0.86
tblVehicleEF	MHD	1.80	2.02
tblVehicleEF	MHD	5.9590e-003	5.8700e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.1090e-003	1.1760e-003
tblVehicleEF	MHD	3.6160e-003	3.9910e-003
tblVehicleEF	MHD	0.18	0.21
tblVehicleEF	MHD	0.19	0.24
tblVehicleEF	MHD	1.6770e-003	1.8220e-003
tblVehicleEF	MHD	0.27	0.34
tblVehicleEF	MHD	0.78	0.86
tblVehicleEF	MHD	1.92	2.17
tblVehicleEF	MHD	7.4380e-003	9.0800e-003
tblVehicleEF	MHD	8.8990e-003	0.01
tblVehicleEF	MHD	1.36	1.47
tblVehicleEF	MHD	1.47	1.78

tblVehicleEF	MHD	19.95	21.84
tblVehicleEF	MHD	645.15	642.00
tblVehicleEF	MHD	1,086.81	1,101.54
tblVehicleEF	MHD	61.12	64.04
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.86	7.42
tblVehicleEF	MHD	4.02	4.90
tblVehicleEF	MHD	2.27	2.41
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.11	0.14
tblVehicleEF	MHD	4.7040e-003	5.6080e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.10	0.13
tblVehicleEF	MHD	3.9530e-003	4.6700e-003
tblVehicleEF	MHD	8.9460e-003	9.9530e-003
tblVehicleEF	MHD	0.20	0.23
tblVehicleEF	MHD	0.16	0.20
tblVehicleEF	MHD	4.1710e-003	4.6110e-003
tblVehicleEF	MHD	0.24	0.30
tblVehicleEF	MHD	0.76	0.84
tblVehicleEF	MHD	1.42	1.59
tblVehicleEF	MHD	6.3130e-003	6.2180e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.8400e-004	1.0420e-003
tblVehicleEF	MHD	8.9460e-003	9.9530e-003
tblVehicleEF	MHD	0.20	0.23
tblVehicleEF	MHD	0.18	0.22

tblVehicleEF	MHD	4.1710e-003	4.6110e-003
tblVehicleEF	MHD	0.27	0.34
tblVehicleEF	MHD	0.76	0.84
tblVehicleEF	MHD	1.52	1.71
tblVehicleEF	MHD	8.5200e-003	0.01
tblVehicleEF	MHD	8.8990e-003	0.01
tblVehicleEF	MHD	2.57	2.80
tblVehicleEF	MHD	1.46	1.78
tblVehicleEF	MHD	34.18	36.96
tblVehicleEF	MHD	559.01	556.28
tblVehicleEF	MHD	1,086.81	1,101.54
tblVehicleEF	MHD	61.12	64.04
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.35	6.87
tblVehicleEF	MHD	4.27	5.21
tblVehicleEF	MHD	2.55	2.71
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.11	0.14
tblVehicleEF	MHD	4.7040e-003	5.6080e-003
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.10	0.13
tblVehicleEF	MHD	3.9530e-003	4.6700e-003
tblVehicleEF	MHD	1.6220e-003	1.7700e-003
tblVehicleEF	MHD	0.22	0.26
tblVehicleEF	MHD	0.18	0.22
tblVehicleEF	MHD	7.4400e-004	7.9200e-004
tblVehicleEF	MHD	0.23	0.30

tblVehicleEF	MHD	0.86	0.96
tblVehicleEF	MHD	2.15	2.43
tblVehicleEF	MHD	5.4700e-003	5.3880e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.2300e-003	1.3060e-003
tblVehicleEF	MHD	1.6220e-003	1.7700e-003
tblVehicleEF	MHD	0.22	0.26
tblVehicleEF	MHD	0.21	0.25
tblVehicleEF	MHD	7.4400e-004	7.9200e-004
tblVehicleEF	MHD	0.27	0.34
tblVehicleEF	MHD	0.86	0.96
tblVehicleEF	MHD	2.31	2.61
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.2420e-003	3.4150e-003
tblVehicleEF	OBUS	2.24	2.30
tblVehicleEF	OBUS	1.75	2.04
tblVehicleEF	OBUS	12.17	12.75
tblVehicleEF	OBUS	576.20	573.90
tblVehicleEF	OBUS	1,121.39	1,128.75
tblVehicleEF	OBUS	36.06	36.88
tblVehicleEF	OBUS	1.7680e-003	1.7640e-003
tblVehicleEF	OBUS	6.46	7.28
tblVehicleEF	OBUS	4.86	5.72
tblVehicleEF	OBUS	1.61	1.66
tblVehicleEF	OBUS	0.02	0.06
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.06	0.10
tblVehicleEF	OBUS	8.2600e-004	1.0020e-003
tblVehicleEF	OBUS	0.02	0.05

tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.5930e-003	2.5830e-003
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	7.3500e-004	8.7500e-004
tblVehicleEF	OBUS	7.0200e-004	7.2000e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.40	0.49
tblVehicleEF	OBUS	3.0000e-004	2.9700e-004
tblVehicleEF	OBUS	0.20	0.25
tblVehicleEF	OBUS	0.23	0.22
tblVehicleEF	OBUS	0.73	0.78
tblVehicleEF	OBUS	5.6380e-003	5.5590e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.8300e-004	5.9800e-004
tblVehicleEF	OBUS	7.0200e-004	7.2000e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.45	0.56
tblVehicleEF	OBUS	3.0000e-004	2.9700e-004
tblVehicleEF	OBUS	0.23	0.29
tblVehicleEF	OBUS	0.23	0.22
tblVehicleEF	OBUS	0.78	0.83
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.2420e-003	3.4150e-003
tblVehicleEF	OBUS	1.63	1.67
tblVehicleEF	OBUS	1.78	2.08
tblVehicleEF	OBUS	8.76	9.22
tblVehicleEF	OBUS	610.43	607.99
tblVehicleEF	OBUS	1,121.39	1,128.75
tblVehicleEF	OBUS	36.06	36.88
tblVehicleEF	OBUS	1.7680e-003	1.7640e-003

tblVehicleEF	OBUS	6.67	7.51
tblVehicleEF	OBUS	4.64	5.47
tblVehicleEF	OBUS	1.51	1.56
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.06	0.10
tblVehicleEF	OBUS	8.2600e-004	1.0020e-003
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.5930e-003	2.5830e-003
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	7.3500e-004	8.7500e-004
tblVehicleEF	OBUS	1.6170e-003	1.6870e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.37	0.46
tblVehicleEF	OBUS	6.7500e-004	6.9000e-004
tblVehicleEF	OBUS	0.20	0.26
tblVehicleEF	OBUS	0.22	0.22
tblVehicleEF	OBUS	0.60	0.64
tblVehicleEF	OBUS	5.9730e-003	5.8890e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.2600e-004	5.3900e-004
tblVehicleEF	OBUS	1.6170e-003	1.6870e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.43	0.53
tblVehicleEF	OBUS	6.7500e-004	6.9000e-004
tblVehicleEF	OBUS	0.24	0.30
tblVehicleEF	OBUS	0.22	0.22
tblVehicleEF	OBUS	0.64	0.68

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.2420e-003	3.4150e-003
tblVehicleEF	OBUS	3.09	3.17
tblVehicleEF	OBUS	1.73	2.02
tblVehicleEF	OBUS	15.42	16.12
tblVehicleEF	OBUS	528.93	526.81
tblVehicleEF	OBUS	1,121.39	1,128.75
tblVehicleEF	OBUS	36.06	36.88
tblVehicleEF	OBUS	1.7680e-003	1.7640e-003
tblVehicleEF	OBUS	6.17	6.96
tblVehicleEF	OBUS	4.96	5.83
tblVehicleEF	OBUS	1.69	1.75
tblVehicleEF	OBUS	0.03	0.07
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.06	0.10
tblVehicleEF	OBUS	8.2600e-004	1.0020e-003
tblVehicleEF	OBUS	0.02	0.07
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.5930e-003	2.5830e-003
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	7.3500e-004	8.7500e-004
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.43	0.53
tblVehicleEF	OBUS	1.6300e-004	1.5700e-004
tblVehicleEF	OBUS	0.20	0.25
tblVehicleEF	OBUS	0.25	0.24
tblVehicleEF	OBUS	0.85	0.91
tblVehicleEF	OBUS	5.1760e-003	5.1030e-003
tblVehicleEF	OBUS	0.01	0.01

tblVehicleEF	OBUS	6.3800e-004	6.5500e-004
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.49	0.60
tblVehicleEF	OBUS	1.6300e-004	1.5700e-004
tblVehicleEF	OBUS	0.23	0.29
tblVehicleEF	OBUS	0.25	0.24
tblVehicleEF	OBUS	0.91	0.97
tblVehicleEF	SBUS	5.4240e-003	5.3980e-003
tblVehicleEF	SBUS	7.0940e-003	6.9330e-003
tblVehicleEF	SBUS	1.05	1.04
tblVehicleEF	SBUS	6.72	7.13
tblVehicleEF	SBUS	41.05	42.69
tblVehicleEF	SBUS	576.19	581.72
tblVehicleEF	SBUS	1,103.07	1,115.98
tblVehicleEF	SBUS	125.46	126.84
tblVehicleEF	SBUS	5.3000e-004	5.3600e-004
tblVehicleEF	SBUS	8.14	8.19
tblVehicleEF	SBUS	8.04	8.11
tblVehicleEF	SBUS	2.96	3.04
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.53	0.53
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	5.2480e-003	5.5910e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6990e-003	2.7010e-003
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	4.8190e-003	5.1280e-003
tblVehicleEF	SBUS	2.8970e-003	2.9570e-003

tblVehicleEF	SBUS	0.20	0.20
tblVehicleEF	SBUS	0.12	0.12
tblVehicleEF	SBUS	9.6600e-004	9.7300e-004
tblVehicleEF	SBUS	0.52	0.54
tblVehicleEF	SBUS	1.58	1.61
tblVehicleEF	SBUS	2.62	2.71
tblVehicleEF	SBUS	5.6380e-003	5.6340e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.0110e-003	2.0410e-003
tblVehicleEF	SBUS	2.8970e-003	2.9570e-003
tblVehicleEF	SBUS	0.20	0.20
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	9.6600e-004	9.7300e-004
tblVehicleEF	SBUS	0.58	0.60
tblVehicleEF	SBUS	1.58	1.61
tblVehicleEF	SBUS	2.79	2.90
tblVehicleEF	SBUS	5.1110e-003	5.0870e-003
tblVehicleEF	SBUS	7.0940e-003	6.9330e-003
tblVehicleEF	SBUS	0.77	0.76
tblVehicleEF	SBUS	6.72	7.11
tblVehicleEF	SBUS	32.83	34.08
tblVehicleEF	SBUS	610.42	616.28
tblVehicleEF	SBUS	1,103.07	1,115.98
tblVehicleEF	SBUS	125.46	126.84
tblVehicleEF	SBUS	5.3000e-004	5.3600e-004
tblVehicleEF	SBUS	8.40	8.46
tblVehicleEF	SBUS	7.68	7.74
tblVehicleEF	SBUS	2.74	2.82
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.53	0.53

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	5.2480e-003	5.5910e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6990e-003	2.7010e-003
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	4.8190e-003	5.1280e-003
tblVehicleEF	SBUS	6.8760e-003	7.0690e-003
tblVehicleEF	SBUS	0.21	0.21
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	2.2580e-003	2.3140e-003
tblVehicleEF	SBUS	0.53	0.54
tblVehicleEF	SBUS	1.38	1.40
tblVehicleEF	SBUS	2.28	2.35
tblVehicleEF	SBUS	5.9730e-003	5.9690e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.8720e-003	1.8950e-003
tblVehicleEF	SBUS	6.8760e-003	7.0690e-003
tblVehicleEF	SBUS	0.21	0.21
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	2.2580e-003	2.3140e-003
tblVehicleEF	SBUS	0.58	0.60
tblVehicleEF	SBUS	1.38	1.40
tblVehicleEF	SBUS	2.43	2.51
tblVehicleEF	SBUS	5.8550e-003	5.8270e-003
tblVehicleEF	SBUS	7.0940e-003	6.9330e-003
tblVehicleEF	SBUS	1.45	1.44
tblVehicleEF	SBUS	6.85	7.31
tblVehicleEF	SBUS	49.21	51.26

tblVehicleEF	SBUS	528.91	533.99
tblVehicleEF	SBUS	1,103.07	1,115.98
tblVehicleEF	SBUS	125.46	126.84
tblVehicleEF	SBUS	5.3000e-004	5.3600e-004
tblVehicleEF	SBUS	7.78	7.83
tblVehicleEF	SBUS	8.22	8.29
tblVehicleEF	SBUS	3.14	3.23
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.53	0.53
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	5.2480e-003	5.5910e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6990e-003	2.7010e-003
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	4.8190e-003	5.1280e-003
tblVehicleEF	SBUS	1.3390e-003	1.3510e-003
tblVehicleEF	SBUS	0.22	0.22
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	4.9100e-004	4.8800e-004
tblVehicleEF	SBUS	0.52	0.54
tblVehicleEF	SBUS	1.97	2.01
tblVehicleEF	SBUS	2.93	3.04
tblVehicleEF	SBUS	5.1750e-003	5.1720e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.1490e-003	2.1860e-003
tblVehicleEF	SBUS	1.3390e-003	1.3510e-003
tblVehicleEF	SBUS	0.22	0.22
tblVehicleEF	SBUS	0.14	0.14

tblVehicleEF	SBUS	4.9100e-004	4.8800e-004
tblVehicleEF	SBUS	0.58	0.60
tblVehicleEF	SBUS	1.97	2.01
tblVehicleEF	SBUS	3.12	3.24
tblVehicleEF	UBUS	6.15	7.05
tblVehicleEF	UBUS	11.46	11.94
tblVehicleEF	UBUS	2,393.44	2,423.86
tblVehicleEF	UBUS	21.35	21.86
tblVehicleEF	UBUS	1.2760e-003	1.2800e-003
tblVehicleEF	UBUS	19.89	20.21
tblVehicleEF	UBUS	1.06	1.07
tblVehicleEF	UBUS	0.37	0.38
tblVehicleEF	UBUS	9.0200e-004	1.1630e-003
tblVehicleEF	UBUS	0.34	0.35
tblVehicleEF	UBUS	7.9400e-004	9.9300e-004
tblVehicleEF	UBUS	4.6000e-004	5.2600e-004
tblVehicleEF	UBUS	0.09	0.11
tblVehicleEF	UBUS	2.0700e-004	2.3600e-004
tblVehicleEF	UBUS	1.10	1.15
tblVehicleEF	UBUS	0.53	0.57
tblVehicleEF	UBUS	0.77	0.84
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	4.2300e-004	4.3600e-004
tblVehicleEF	UBUS	4.6000e-004	5.2600e-004
tblVehicleEF	UBUS	0.09	0.11
tblVehicleEF	UBUS	2.0700e-004	2.3600e-004
tblVehicleEF	UBUS	1.23	1.28
tblVehicleEF	UBUS	0.53	0.57
tblVehicleEF	UBUS	0.82	0.90
tblVehicleEF	UBUS	6.20	7.05

tblVehicleEF	UBUS	8.59	9.05
tblVehicleEF	UBUS	2,393.44	2,423.86
tblVehicleEF	UBUS	21.35	21.86
tblVehicleEF	UBUS	1.2760e-003	1.2800e-003
tblVehicleEF	UBUS	19.08	19.39
tblVehicleEF	UBUS	0.99	1.00
tblVehicleEF	UBUS	0.37	0.38
tblVehicleEF	UBUS	9.0200e-004	1.1630e-003
tblVehicleEF	UBUS	0.34	0.35
tblVehicleEF	UBUS	7.9400e-004	9.9300e-004
tblVehicleEF	UBUS	1.1380e-003	1.3100e-003
tblVehicleEF	UBUS	0.10	0.12
tblVehicleEF	UBUS	5.2700e-004	6.1100e-004
tblVehicleEF	UBUS	1.13	1.17
tblVehicleEF	UBUS	0.49	0.53
tblVehicleEF	UBUS	0.63	0.69
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.7300e-004	3.8500e-004
tblVehicleEF	UBUS	1.1380e-003	1.3100e-003
tblVehicleEF	UBUS	0.10	0.12
tblVehicleEF	UBUS	5.2700e-004	6.1100e-004
tblVehicleEF	UBUS	1.25	1.30
tblVehicleEF	UBUS	0.49	0.53
tblVehicleEF	UBUS	0.67	0.73
tblVehicleEF	UBUS	6.18	7.18
tblVehicleEF	UBUS	14.19	14.72
tblVehicleEF	UBUS	2,393.44	2,423.86
tblVehicleEF	UBUS	21.35	21.86
tblVehicleEF	UBUS	1.2760e-003	1.2800e-003
tblVehicleEF	UBUS	20.21	20.54

tblVehicleEF	UBUS	1.12	1.13
tblVehicleEF	UBUS	0.37	0.38
tblVehicleEF	UBUS	9.0200e-004	1.1630e-003
tblVehicleEF	UBUS	0.34	0.35
tblVehicleEF	UBUS	7.9400e-004	9.9300e-004
tblVehicleEF	UBUS	2.3300e-004	2.6400e-004
tblVehicleEF	UBUS	0.12	0.14
tblVehicleEF	UBUS	9.6000e-005	1.0700e-004
tblVehicleEF	UBUS	1.09	1.14
tblVehicleEF	UBUS	0.64	0.68
tblVehicleEF	UBUS	0.89	0.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	4.7000e-004	4.8400e-004
tblVehicleEF	UBUS	2.3300e-004	2.6400e-004
tblVehicleEF	UBUS	0.12	0.14
tblVehicleEF	UBUS	9.6000e-005	1.0700e-004
tblVehicleEF	UBUS	1.21	1.27
tblVehicleEF	UBUS	0.64	0.68
tblVehicleEF	UBUS	0.95	1.05
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00

tblVehicleTrips	WD_TR	6.97	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercen	2.21	0.00
tblWater	ElectricityIntensityFactorForWastewater	1,911.00	0.00
tblWater	Treatment		
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	323,750.00	0.00
tblWater	SepticTankPercent	10.33	100.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	0.1290	0.8677	1.2013	2.0100e-003	0.1552	0.0504	0.2056	0.0322	0.0474	0.0796	0.0000	171.2468	171.2468	0.0197	0.0000	171.6597
2016	0.1172	0.8017	1.1060	1.9600e-003	0.1510	0.0465	0.1975	0.0311	0.0437	0.0748	0.0000	163.9499	163.9499	0.0188	0.0000	164.3456
2017	0.0148	0.1144	0.1454	2.6000e-004	0.0680	6.7400e-003	0.0747	9.1000e-003	6.3000e-003	0.0154	0.0000	21.6882	21.6882	3.2100e-003	0.0000	21.7557
Total	0.2610	1.7838	2.4527	4.2300e-003	0.3742	0.1037	0.4779	0.0724	0.0974	0.1698	0.0000	356.8849	356.8849	0.0417	0.0000	357.7609

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr												MT/yr			
2015	0.0715	0.5109	1.2107	2.0100e-003	0.1493	8.2200e-003	0.1576	0.0316	7.9500e-003	0.0395	0.0000	171.2467	171.2467	0.0197	0.0000	171.6596
2016	0.0639	0.4815	1.1181	1.9600e-003	0.1452	7.6500e-003	0.1528	0.0305	7.4300e-003	0.0379	0.0000	163.9499	163.9499	0.0188	0.0000	164.3455
2017	7.5300e-003	0.0723	0.1496	2.6000e-004	0.0623	1.6200e-003	0.0639	8.4800e-003	1.6000e-003	0.0101	0.0000	21.6882	21.6882	3.2100e-003	0.0000	21.7556
Total	0.1430	1.0646	2.4784	4.2300e-003	0.3568	0.0175	0.3743	0.0706	0.0170	0.0875	0.0000	356.8847	356.8847	0.0417	0.0000	357.7607

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	45.22	40.32	-1.05	0.00	4.65	83.13	21.67	2.60	82.56	48.45	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												MT/yr			
Area	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005

## Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005	
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 3.0 Construction Detail

---

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Grading	1/5/2015	2/10/2017	5	550	
2	Directional Drilling	Grading	1/5/2015	4/21/2017	5	600	
3	Vault Installation	Grading	1/5/2015	12/4/2016	5	500	
4	Cabinet Installation	Grading	1/5/2015	3/13/2015	5	50	
5	Aerial Installation	Grading	1/5/2015	12/2/2016	5	500	
6	Rock Sawing	Grading	1/5/2015	2/10/2017	5	550	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)**

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Excavators	1	0.50	162	0.38
Trenching	Graders	0	0.00	0	0.00
Trenching	Tractors/Loaders/Backhoes	1	0.50	97	0.37
Trenching	Trenchers	1	2.00	80	0.50
Directional Drilling	Bore/Drill Rigs	1	4.00	65	0.50
Directional Drilling	Graders	0	0.00	0	0.00
Directional Drilling	Tractors/Loaders/Backhoes	1	1.00	97	0.37
Vault Installation	Graders	0	0.00	0	0.00
Vault Installation	Tractors/Loaders/Backhoes	1	1.00	97	0.37
Cabinet Installation	Aerial Lifts	0	0.00	0	0.00
Aerial Installation	Aerial Lifts	0	0.00	62	0.31
Rock Sawing	Concrete/Industrial Saws	1	2.00	81	0.73
Rock Sawing	Graders	0	0.00	0	0.00

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Trenching	3	14.00	4.00	0.00	12.40	7.80	20.00	LD_Mix	HDT_Mix	HDT_Mix
Directional Drilling	2	14.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HDT_Mix
Vault Installation	1	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HDT_Mix
Cabinet Installation	0	12.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Aerial Installation	0	14.00	2.00	0.00	12.40	7.55	20.00	LD_Mix	HDT_Mix	HHDT
Rock Sawing	1	22.00	4.00	30.00	12.40	7.80	20.00	LD_Mix	HDT_Mix	HDT_Mix

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

### 3.2 Trenching - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0250	0.2311	0.1392	1.8000e-004		0.0169	0.0169		0.0156	0.0156	0.0000	17.1628	17.1628	5.1200e-003	0.0000	17.2704	
Total	0.0250	0.2311	0.1392	1.8000e-004	0.0124	0.0169	0.0294	1.3400e-003	0.0156	0.0169	0.0000	17.1628	17.1628	5.1200e-003	0.0000	17.2704	

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	7.0000e-003	0.0628	0.0754	1.3000e-004	3.5700e-003	1.0300e-003	4.6100e-003	1.0200e-003	9.5000e-004	1.9700e-003	0.0000	12.0521	12.0521	1.1000e-004	0.0000	12.0544	
Worker	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-004	0.0167	4.3900e-003	1.3000e-004	4.5200e-003	0.0000	15.0655	15.0655	8.5000e-004	0.0000	15.0834	
Total	0.0145	0.0734	0.1785	3.2000e-004	0.0201	1.1700e-003	0.0213	5.4100e-003	1.0800e-003	6.4900e-003	0.0000	27.1176	27.1176	9.6000e-004	0.0000	27.1378	

## Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0112	0.0000	0.0112	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	3.6000e-003	0.0787	0.1360	1.8000e-004		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	17.1627	17.1627	5.1200e-003	0.0000	17.2703	
Total	3.6000e-003	0.0787	0.1360	1.8000e-004	0.0112	2.9000e-004	0.0115	1.2100e-003	2.9000e-004	1.5000e-003	0.0000	17.1627	17.1627	5.1200e-003	0.0000	17.2703	

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	7.0000e-003	0.0628	0.0754	1.3000e-004	3.5700e-003	1.0300e-003	4.6100e-003	1.0200e-003	9.5000e-004	1.9700e-003	0.0000	12.0521	12.0521	1.1000e-004	0.0000	12.0544	
Worker	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-004	0.0167	4.3900e-003	1.3000e-004	4.5200e-003	0.0000	15.0655	15.0655	8.5000e-004	0.0000	15.0834	
Total	0.0145	0.0734	0.1785	3.2000e-004	0.0201	1.1700e-003	0.0213	5.4100e-003	1.0800e-003	6.4900e-003	0.0000	27.1176	27.1176	9.6000e-004	0.0000	27.1378	

## 3.2 Trenching - 2016

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0241	0.2216	0.1394	1.8000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	17.1107	17.1107	5.1600e-003	0.0000	17.2191	
Total	0.0241	0.2216	0.1394	1.8000e-004	0.0124	0.0163	0.0287	1.3400e-003	0.0150	0.0163	0.0000	17.1107	17.1107	5.1600e-003	0.0000	17.2191	

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	6.3300e-003	0.0550	0.0714	1.3000e-004	3.6000e-003	8.3000e-004	4.4300e-003	1.0300e-003	7.6000e-004	1.8000e-003	0.0000	12.0055	12.0055	1.0000e-004	0.0000	12.0075	
Worker	6.8000e-003	9.5600e-003	0.0929	1.9000e-004	0.0166	1.3000e-004	0.0168	4.4200e-003	1.2000e-004	4.5500e-003	0.0000	14.6568	14.6568	7.8000e-004	0.0000	14.6733	
Total	0.0131	0.0645	0.1643	3.2000e-004	0.0202	9.6000e-004	0.0212	5.4500e-003	8.8000e-004	6.3500e-003	0.0000	26.6623	26.6623	8.8000e-004	0.0000	26.6808	

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0112	0.0000	0.0112	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	3.6300e-003	0.0793	0.1370	1.8000e-004		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	17.1107	17.1107	5.1600e-003	0.0000	17.2191	

Total	3.6300e-003	0.0793	0.1370	1.8000e-004	0.0112	3.0000e-004	0.0115	1.2100e-003	3.0000e-004	1.5100e-003	0.0000	17.1107	17.1107	5.1600e-003	0.0000	17.2191
-------	-------------	--------	--------	-------------	--------	-------------	--------	-------------	-------------	-------------	--------	---------	---------	-------------	--------	---------

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	6.3300e-003	0.0550	0.0714	1.3000e-004	3.6000e-003	8.3000e-004	4.4300e-003	1.0300e-003	7.6000e-004	1.8000e-003	0.0000	12.0055	12.0055	1.0000e-004	0.0000	12.0075	
Worker	6.8000e-003	9.5600e-003	0.0929	1.9000e-004	0.0166	1.3000e-004	0.0168	4.4200e-003	1.2000e-004	4.5500e-003	0.0000	14.6568	14.6568	7.8000e-004	0.0000	14.6733	
Total	0.0131	0.0645	0.1643	3.2000e-004	0.0202	9.6000e-004	0.0212	5.4500e-003	8.8000e-004	6.3500e-003	0.0000	26.6623	26.6623	8.8000e-004	0.0000	26.6808	

### **3.2 Trenching - 2017**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6500e-003	0.0243	0.0160	2.0000e-005		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	1.9358	1.9358	5.9000e-004	0.0000	1.9483
Total	2.6500e-003	0.0243	0.0160	2.0000e-005	0.0124	1.7800e-003	0.0142	1.3400e-003	1.6400e-003	2.9800e-003	0.0000	1.9358	1.9358	5.9000e-004	0.0000	1.9483

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	6.4000e-004	5.6500e-003	7.5600e-003	2.0000e-005	4.1000e-004	8.0000e-005	5.0000e-004	1.2000e-004	8.0000e-005	1.9000e-004	0.0000	1.3563	1.3563	1.0000e-005	0.0000	1.3565	
Worker	7.0000e-004	9.9000e-004	9.5400e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6203	1.6203	8.0000e-005	0.0000	1.6220	
Total	1.3400e-003	6.6400e-003	0.0171	4.0000e-005	2.3200e-003	9.0000e-005	2.4300e-003	6.3000e-004	9.0000e-005	7.1000e-004	0.0000	2.9766	2.9766	9.0000e-005	0.0000	2.9785	

## **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.0112	0.0000	0.0112	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	4.2000e-004	9.1200e-003	0.0158	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.9358	1.9358	5.9000e-004	0.0000	1.9483	
Total	4.2000e-004	9.1200e-003	0.0158	2.0000e-005	0.0112	3.0000e-005	0.0112	1.2100e-003	3.0000e-005	1.2400e-003	0.0000	1.9358	1.9358	5.9000e-004	0.0000	1.9483	

## **Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4000e-004	5.6500e-003	7.5600e-003	2.0000e-005	4.1000e-004	8.0000e-005	5.0000e-004	1.2000e-004	8.0000e-005	1.9000e-004	0.0000	1.3563	1.3563	1.0000e-005	0.0000	1.3565		
Worker	7.0000e-004	9.9000e-004	9.5400e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6203	1.6203	8.0000e-005	0.0000	1.6220		
Total	1.3400e-003	6.6400e-003	0.0171	4.0000e-005	2.3200e-003	9.0000e-005	2.4300e-003	6.3000e-004	9.0000e-005	7.1000e-004	0.0000	2.9766	2.9766	9.0000e-005	0.0000	2.9785		

### 3.3 Directional Drilling - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0321	0.0000	0.0321	3.4700e-003	0.0000	3.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0176	0.2051	0.1630	2.3000e-004		0.0132	0.0132		0.0122	0.0122	0.0000	21.5415	21.5415	6.4300e-003	0.0000	21.6765
Total	0.0176	0.2051	0.1630	2.3000e-004	0.0321	0.0132	0.0454	3.4700e-003	0.0122	0.0156	0.0000	21.5415	21.5415	6.4300e-003	0.0000	21.6765

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-004	0.0167	4.3900e-003	1.3000e-004	4.5200e-003	0.0000	15.0655	15.0655	8.5000e-004	0.0000	15.0834
Total	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-004	0.0167	4.3900e-003	1.3000e-004	4.5200e-003	0.0000	15.0655	15.0655	8.5000e-004	0.0000	15.0834

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0289	0.0000	0.0289	3.1200e-003	0.0000	3.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5800e-003	0.1236	0.1752	2.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	21.5414	21.5414	6.4300e-003	0.0000	21.6765
Total	5.5800e-003	0.1236	0.1752	2.3000e-004	0.0289	4.2400e-003	0.0332	3.1200e-003	4.2400e-003	7.3600e-003	0.0000	21.5414	21.5414	6.4300e-003	0.0000	21.6765

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-004	0.0167	4.3900e-003	1.3000e-004	4.5200e-003	0.0000	15.0655	15.0655	8.5000e-004	0.0000	15.0834
Total	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-004	0.0167	4.3900e-003	1.3000e-004	4.5200e-003	0.0000	15.0655	15.0655	8.5000e-004	0.0000	15.0834

### 3.3 Directional Drilling - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0321	0.0000	0.0321	3.4700e-003	0.0000	3.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0170	0.1960	0.1638	2.3000e-004		0.0124	0.0124		0.0114	0.0114	0.0000	21.4718	21.4718	6.4800e-003	0.0000	21.6078	
Total	0.0170	0.1960	0.1638	2.3000e-004	0.0321	0.0124	0.0445	3.4700e-003	0.0114	0.0149	0.0000	21.4718	21.4718	6.4800e-003	0.0000	21.6078	

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	6.8000e-003	9.5600e-003	0.0929	1.9000e-004	0.0166	1.3000e-004	0.0168	4.4200e-003	1.2000e-004	4.5500e-003	0.0000	14.6568	14.6568	7.8000e-004	0.0000	14.6733	
Total	6.8000e-003	9.5600e-003	0.0929	1.9000e-004	0.0166	1.3000e-004	0.0168	4.4200e-003	1.2000e-004	4.5500e-003	0.0000	14.6568	14.6568	7.8000e-004	0.0000	14.6733	

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0289	0.0000	0.0289	3.1200e-003	0.0000	3.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	5.6200e-003	0.1246	0.1766	2.3000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	21.4717	21.4717	6.4800e-003	0.0000	21.6078	

Total	5.6200e-003	0.1246	0.1766	2.3000e-004	0.0289	4.2700e-003	0.0332	3.1200e-003	4.2700e-003	7.3900e-003	0.0000	21.4717	21.4717	6.4800e-003	0.0000	21.6078
-------	-------------	--------	--------	-------------	--------	-------------	--------	-------------	-------------	-------------	--------	---------	---------	-------------	--------	---------

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-003	9.5600e-003	0.0929	1.9000e-004	0.0166	1.3000e-004	0.0168	4.4200e-003	1.2000e-004	4.5500e-003	0.0000	14.6568	14.6568	7.8000e-004	0.0000	14.6733
Total	6.8000e-003	9.5600e-003	0.0929	1.9000e-004	0.0166	1.3000e-004	0.0168	4.4200e-003	1.2000e-004	4.5500e-003	0.0000	14.6568	14.6568	7.8000e-004	0.0000	14.6733

### 3.3 Directional Drilling - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0321	0.0000	0.0321	3.4700e-003	0.0000	3.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-003	0.0575	0.0502	7.0000e-005		3.5600e-003	3.5600e-003		3.2800e-003	3.2800e-003	0.0000	6.4910	6.4910	1.9900e-003	0.0000	6.5327
Total	5.0000e-003	0.0575	0.0502	7.0000e-005	0.0321	3.5600e-003	0.0357	3.4700e-003	3.2800e-003	6.7500e-003	0.0000	6.4910	6.4910	1.9900e-003	0.0000	6.5327

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.8700e-003	2.6300e-003	0.0254	6.0000e-005	5.1000e-003	4.0000e-005	5.1400e-003	1.3600e-003	4.0000e-005	1.3900e-003	0.0000	4.3208	4.3208	2.2000e-004	0.0000	4.3254	
Total	1.8700e-003	2.6300e-003	0.0254	6.0000e-005	5.1000e-003	4.0000e-005	5.1400e-003	1.3600e-003	4.0000e-005	1.3900e-003	0.0000	4.3208	4.3208	2.2000e-004	0.0000	4.3254	

## **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.0289	0.0000	0.0289	3.1200e-003	0.0000	3.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	1.7200e-003	0.0382	0.0541	7.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	6.4910	6.4910	1.9900e-003	0.0000	6.5327	
Total	1.7200e-003	0.0382	0.0541	7.0000e-005	0.0289	1.3100e-003	0.0302	3.1200e-003	1.3100e-003	4.4300e-003	0.0000	6.4910	6.4910	1.9900e-003	0.0000	6.5327	

## **Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8700e-003	2.6300e-003	0.0254	6.0000e-005	5.1000e-005	4.0000e-005	5.1400e-003	1.3600e-003	4.0000e-005	1.3900e-003	0.0000	4.3208	4.3208	2.2000e-004	0.0000	4.3254		
Total	1.8700e-003	2.6300e-003	0.0254	6.0000e-005	5.1000e-003	4.0000e-005	5.1400e-003	1.3600e-003	4.0000e-005	1.3900e-003	0.0000	4.3208	4.3208	2.2000e-004	0.0000	4.3254		

### 3.4 Vault Installation - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5000e-003	0.0000	1.5000e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8300e-003	0.0556	0.0393	5.0000e-005		4.3500e-003	4.3500e-003		4.0000e-003	4.0000e-003	0.0000	4.8092	4.8092	1.4400e-003	0.0000	4.8393
Total	5.8300e-003	0.0556	0.0393	5.0000e-005	1.5000e-003	4.3500e-003	5.8500e-003	1.6000e-004	4.0000e-003	4.1600e-003	0.0000	4.8092	4.8092	1.4400e-003	0.0000	4.8393

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2900e-003	6.0600e-003	0.0589	1.1000e-004	9.4300e-003	8.0000e-005	9.5100e-003	2.5100e-003	7.0000e-005	2.5800e-003	0.0000	8.6088	8.6088	4.9000e-004	0.0000	8.6191
Total	4.2900e-003	6.0600e-003	0.0589	1.1000e-004	9.4300e-003	8.0000e-005	9.5100e-003	2.5100e-003	7.0000e-005	2.5800e-003	0.0000	8.6088	8.6088	4.9000e-004	0.0000	8.6191

## Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					1.3500e-003	0.0000	1.3500e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	1.1300e-003	0.0219	0.0379	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.8092	4.8092	1.4400e-003	0.0000	4.8393	
Total	1.1300e-003	0.0219	0.0379	5.0000e-005	1.3500e-003	8.0000e-005	1.4300e-003	1.5000e-004	8.0000e-005	2.3000e-004	0.0000	4.8092	4.8092	1.4400e-003	0.0000	4.8393	

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2900e-003	6.0600e-003	0.0589	1.1000e-004	9.4300e-003	8.0000e-005	9.5100e-003	2.5100e-003	7.0000e-005	2.5800e-003	0.0000	8.6088	8.6088	4.9000e-004	0.0000	8.6191	
Total	4.2900e-003	6.0600e-003	0.0589	1.1000e-004	9.4300e-003	8.0000e-005	9.5100e-003	2.5100e-003	7.0000e-005	2.5800e-003	0.0000	8.6088	8.6088	4.9000e-004	0.0000	8.6191	

## **3.4 Vault Installation - 2016**

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					1.5000e-003	0.0000	1.5000e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	5.1300e-003	0.0490	0.0363	5.0000e-005		3.7700e-003	3.7700e-003		3.4700e-003	3.4700e-003	0.0000	4.4229	4.4229	1.3300e-003	0.0000	4.4509	
Total	5.1300e-003	0.0490	0.0363	5.0000e-005	1.5000e-003	3.7700e-003	5.2700e-003	1.6000e-004	3.4700e-003	3.6300e-003	0.0000	4.4229	4.4229	1.3300e-003	0.0000	4.4509	

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.5900e-003	5.0400e-003	0.0490	1.0000e-004	8.7800e-003	7.0000e-005	8.8500e-003	2.3300e-003	6.0000e-005	2.4000e-003	0.0000	7.7335	7.7335	4.1000e-004	0.0000	7.7422	
Total	3.5900e-003	5.0400e-003	0.0490	1.0000e-004	8.7800e-003	7.0000e-005	8.8500e-003	2.3300e-003	6.0000e-005	2.4000e-003	0.0000	7.7335	7.7335	4.1000e-004	0.0000	7.7422	

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					1.3500e-003	0.0000	1.3500e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	1.0500e-003	0.0204	0.0353	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.4229	4.4229	1.3300e-003	0.0000	4.4509	

Total	1.0500e-003	0.0204	0.0353	5.0000e-005	1.3500e-003	8.0000e-005	1.4300e-003	1.5000e-004	8.0000e-005	2.3000e-004	0.0000	4.4229	4.4229	1.3300e-003	0.0000	4.4509
-------	-------------	--------	--------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	--------	--------	--------	-------------	--------	--------

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.5900e-003	5.0400e-003	0.0490	1.0000e-004	8.7800e-003	7.0000e-005	8.8500e-003	2.3300e-003	6.0000e-005	2.4000e-003	0.0000	7.7335	7.7335	4.1000e-004	0.0000	7.7422	
Total	3.5900e-003	5.0400e-003	0.0490	1.0000e-004	8.7800e-003	7.0000e-005	8.8500e-003	2.3300e-003	6.0000e-005	2.4000e-003	0.0000	7.7335	7.7335	4.1000e-004	0.0000	7.7422	

### **3.5 Cabinet Installation - 2015**

#### Unmitigated Construction On-Site

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

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.2400e-003	1.7500e-003	0.0171	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4929	2.4929	1.4000e-004	0.0000	2.4959	
Total	1.2400e-003	1.7500e-003	0.0171	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4929	2.4929	1.4000e-004	0.0000	2.4959	

## **Mitigated Construction On-Site**

## **Mitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	1.7500e-003	0.0171	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4929	2.4929	1.4000e-004	0.0000	2.4959		
Total	1.2400e-003	1.7500e-003	0.0171	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4929	2.4929	1.4000e-004	0.0000	2.4959		

### 3.6 Aerial Installation - 2015

#### Unmitigated Construction On-Site

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

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4600e-003	0.0306	0.0375	6.0000e-005	1.7300e-003	5.0000e-004	2.2300e-003	5.0000e-004	4.6000e-004	9.6000e-004	0.0000	5.8461	5.8461	5.0000e-005	0.0000	5.8472
Worker	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-004	0.0167	4.3900e-003	1.3000e-004	4.5200e-003	0.0000	15.0655	15.0655	8.5000e-004	0.0000	15.0834
Total	0.0110	0.0412	0.1405	2.5000e-004	0.0182	6.4000e-004	0.0189	4.8900e-003	5.9000e-004	5.4800e-003	0.0000	20.9116	20.9116	9.0000e-004	0.0000	20.9306

### Mitigated Construction On-Site

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

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4600e-003	0.0306	0.0375	6.0000e-005	1.7300e-003	5.0000e-004	2.2300e-003	5.0000e-004	4.6000e-004	9.6000e-004	0.0000	5.8461	5.8461	5.0000e-005	0.0000	5.8472
Worker	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-004	0.0167	4.3900e-003	1.3000e-004	4.5200e-003	0.0000	15.0655	15.0655	8.5000e-004	0.0000	15.0834
Total	0.0110	0.0412	0.1405	2.5000e-004	0.0182	6.4000e-004	0.0189	4.8900e-003	5.9000e-004	5.4800e-003	0.0000	20.9116	20.9116	9.0000e-004	0.0000	20.9306

### **3.6 Aerial Installation - 2016**

#### Unmitigated Construction On-Site

## **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8900e-003	0.0247	0.0328	6.0000e-005	1.6100e-005	3.7000e-003	1.9800e-003	4.6000e-004	3.4000e-004	8.0000e-004	0.0000	5.3773	5.3773	4.0000e-005	0.0000	5.3782
Worker	6.2800e-003	8.8300e-003	0.0858	1.8000e-004	0.0154	1.2000e-004	0.0155	4.0800e-003	1.1000e-004	4.2000e-003	0.0000	13.5337	13.5337	7.2000e-004	0.0000	13.5489
Total	9.1700e-003	0.0336	0.1185	2.4000e-004	0.0170	4.9000e-004	0.0175	4.5400e-003	4.5000e-004	5.0000e-003	0.0000	18.9110	18.9110	7.6000e-004	0.0000	18.9271

## **Mitigated Construction On-Site**

Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8900e-003	0.0247	0.0328	6.0000e-005	1.6100e-005	3.7000e-003	1.9800e-003	4.6000e-004	3.4000e-004	8.0000e-004	0.0000	5.3773	5.3773	4.0000e-005	0.0000	5.3782
Worker	6.2800e-003	8.8300e-003	0.0858	1.8000e-004	0.0154	1.2000e-004	0.0155	4.0800e-003	1.1000e-004	4.2000e-003	0.0000	13.5337	13.5337	7.2000e-004	0.0000	13.5489
Total	9.1700e-003	0.0336	0.1185	2.4000e-004	0.0170	4.9000e-004	0.0175	4.5400e-003	4.5000e-004	5.0000e-003	0.0000	18.9110	18.9110	7.6000e-004	0.0000	18.9271

### **3.7 Rock Sawing - 2015**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.1617	0.1231	2.0000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	17.4067	17.4067	1.8700e-003	0.0000	17.4459
Total	0.0231	0.1617	0.1231	2.0000e-004	0.0124	0.0126	0.0250	1.3400e-003	0.0126	0.0139	0.0000	17.4067	17.4067	1.8700e-003	0.0000	17.4459

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	1.5000e-004	1.9500e-003	1.3300e-003	0.0000	2.3000e-004	3.0000e-005	2.6000e-004	6.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.4038	0.4038	0.0000	0.0000	0.4039	
Vendor	7.0000e-003	0.0628	0.0754	1.3000e-004	3.5700e-003	1.0300e-003	4.6100e-003	1.0200e-003	9.5000e-004	1.9700e-003	0.0000	12.0521	12.0521	1.1000e-004	0.0000	12.0544	
Worker	0.0118	0.0167	0.1620	3.0000e-004	0.0259	2.2000e-004	0.0262	6.9000e-003	2.0000e-004	7.1000e-003	0.0000	23.6743	23.6743	1.3400e-003	0.0000	23.7025	
<b>Total</b>	<b>0.0190</b>	<b>0.0814</b>	<b>0.2387</b>	<b>4.3000e-004</b>	<b>0.0297</b>	<b>1.2800e-003</b>	<b>0.0310</b>	<b>7.9800e-003</b>	<b>1.1800e-003</b>	<b>9.1600e-003</b>	<b>0.0000</b>	<b>36.1303</b>	<b>36.1303</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>36.1608</b>	

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0112	0.0000	0.0112	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	3.7100e-003	0.0723	0.1249	2.0000e-004		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	17.4066	17.4066	1.8700e-003	0.0000	17.4459	
<b>Total</b>	<b>3.7100e-003</b>	<b>0.0723</b>	<b>0.1249</b>	<b>2.0000e-004</b>	<b>0.0112</b>	<b>2.7000e-004</b>	<b>0.0114</b>	<b>1.2100e-003</b>	<b>2.7000e-004</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>17.4066</b>	<b>17.4066</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>17.4459</b>	

### Mitigated Construction Off-Site

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

Hauling	1.5000e-004	1.9500e-003	1.3300e-003	0.0000	2.3000e-004	3.0000e-005	2.6000e-004	6.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.4038	0.4038	0.0000	0.0000	0.4039
Vendor	7.0000e-003	0.0628	0.0754	1.3000e-004	3.5700e-003	1.0300e-003	4.6100e-003	1.0200e-003	9.5000e-004	1.9700e-003	0.0000	12.0521	12.0521	1.1000e-004	0.0000	12.0544
Worker	0.0118	0.0167	0.1620	3.0000e-004	0.0259	2.2000e-004	0.0262	6.9000e-003	2.0000e-004	7.1000e-003	0.0000	23.6743	23.6743	1.3400e-003	0.0000	23.7025
Total	0.0190	0.0814	0.2387	4.3000e-004	0.0297	1.2800e-003	0.0310	7.9800e-003	1.1800e-003	9.1600e-003	0.0000	36.1303	36.1303	1.4500e-003	0.0000	36.1608

### 3.7 Rock Sawing - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0211	0.1508	0.1232	2.0000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	17.5411	17.5411	1.7000e-003	0.0000	17.5767
Total	0.0211	0.1508	0.1232	2.0000e-004	0.0124	0.0113	0.0237	1.3400e-003	0.0113	0.0127	0.0000	17.5411	17.5411	1.7000e-003	0.0000	17.5767

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	1.6900e-003	1.2400e-003	0.0000	2.3000e-004	3.0000e-005	2.5000e-004	6.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.4023	0.4023	0.0000	0.0000	0.4023
Vendor	6.3300e-003	0.0550	0.0714	1.3000e-004	3.6000e-003	8.3000e-004	4.4300e-003	1.0300e-003	7.6000e-004	1.8000e-003	0.0000	12.0055	12.0055	1.0000e-004	0.0000	12.0075
Worker	0.0107	0.0150	0.1460	3.0000e-004	0.0261	2.1000e-004	0.0264	6.9500e-003	1.9000e-004	7.1400e-003	0.0000	23.0322	23.0322	1.2300e-003	0.0000	23.0580
Total	0.0172	0.0717	0.2186	4.3000e-004	0.0300	1.0700e-003	0.0310	8.0400e-003	9.8000e-004	9.0300e-003	0.0000	35.4399	35.4399	1.3300e-003	0.0000	35.4678

## Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0112	0.0000	0.0112	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	3.7400e-003	0.0728	0.1259	2.0000e-004		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	17.5411	17.5411	1.7000e-003	0.0000	17.5767	
Total	3.7400e-003	0.0728	0.1259	2.0000e-004	0.0112	2.7000e-004	0.0114	1.2100e-003	2.7000e-004	1.4800e-003	0.0000	17.5411	17.5411	1.7000e-003	0.0000	17.5767	

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	1.3000e-004	1.6900e-003	1.2400e-003	0.0000	2.3000e-004	3.0000e-004	2.5000e-004	6.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.4023	0.4023	0.0000	0.0000	0.4023	
Vendor	6.3300e-003	0.0550	0.0714	1.3000e-004	3.6000e-003	8.3000e-004	4.4300e-003	1.0300e-003	7.6000e-004	1.8000e-003	0.0000	12.0055	12.0055	1.0000e-004	0.0000	12.0075	
Worker	0.0107	0.0150	0.1460	3.0000e-004	0.0261	2.1000e-004	0.0264	6.9500e-003	1.9000e-004	7.1400e-003	0.0000	23.0322	23.0322	1.2300e-003	0.0000	23.0580	
Total	0.0172	0.0717	0.2186	4.3000e-004	0.0300	1.0700e-003	0.0310	8.0400e-003	9.8000e-004	9.0300e-003	0.0000	35.4399	35.4399	1.3300e-003	0.0000	35.4678	

## 3.7 Rock Sawing - 2017

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	2.1800e-003	0.0160	0.0141	2.0000e-005		1.1500e-003	1.1500e-003		1.1500e-003	1.1500e-003	0.0000	2.0162	2.0162	1.8000e-004	0.0000	2.0199	
Total	2.1800e-003	0.0160	0.0141	2.0000e-005	0.0124	1.1500e-003	0.0136	1.3400e-003	1.1500e-003	2.4900e-003	0.0000	2.0162	2.0162	1.8000e-004	0.0000	2.0199	

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	1.0000e-005	1.7000e-004	1.3000e-004	0.0000	1.9000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0455	0.0455	0.0000	0.0000	0.0455	
Vendor	6.4000e-004	5.6500e-003	7.5600e-003	2.0000e-005	4.1000e-004	8.0000e-005	5.0000e-004	1.2000e-004	8.0000e-005	1.9000e-004	0.0000	1.3563	1.3563	1.0000e-005	0.0000	1.3565	
Worker	1.1000e-003	1.5500e-003	0.0150	3.0000e-005	3.0000e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.5462	2.5462	1.3000e-004	0.0000	2.5489	
Total	1.7500e-003	7.3700e-003	0.0227	5.0000e-005	3.6000e-003	1.0000e-004	3.7300e-003	9.7000e-004	1.0000e-004	1.0600e-003	0.0000	3.9479	3.9479	1.4000e-004	0.0000	3.9508	

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0112	0.0000	0.0112	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	4.3000e-004	8.3700e-003	0.0145	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.0162	2.0162	1.8000e-004	0.0000	2.0199	

Total	4.3000e-004	8.3700e-003	0.0145	2.0000e-005	0.0112	3.0000e-005	0.0112	1.2100e-003	3.0000e-005	1.2400e-003	0.0000	2.0162	2.0162	1.8000e-004	0.0000	2.0199
-------	-------------	-------------	--------	-------------	--------	-------------	--------	-------------	-------------	-------------	--------	--------	--------	-------------	--------	--------

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.7000e-004	1.3000e-004	0.0000	1.9000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0455	0.0455	0.0000	0.0000	0.0455
Vendor	6.4000e-004	5.6500e-003	7.5600e-003	2.0000e-005	4.1000e-004	8.0000e-005	5.0000e-004	1.2000e-004	8.0000e-005	1.9000e-004	0.0000	1.3563	1.3563	1.0000e-005	0.0000	1.3565
Worker	1.1000e-003	1.5500e-003	0.0150	3.0000e-005	3.0000e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.5462	2.5462	1.3000e-004	0.0000	2.5489
Total	1.7500e-003	7.3700e-003	0.0227	5.0000e-005	3.6000e-003	1.0000e-004	3.7300e-003	9.7000e-004	1.0000e-004	1.0600e-003	0.0000	3.9479	3.9479	1.4000e-004	0.0000	3.9508

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

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

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## 4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C- S	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.552333	0.058138	0.185246	0.125281	0.029961	0.004506	0.012317	0.020953	0.001764	0.001280	0.005920	0.000536	0.001765

## 5.0 Energy Detail

---

4.4 Fleet Mix

## Historical Energy Use: N

## **5.1 Mitigation Measures Energy**

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>						

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>						

## 5.3 Energy by Land Use - Electricity

### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

## Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000

Total		0.0000	0.0000	0.0000	0.0000
-------	--	--------	--------	--------	--------

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

## Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons				MT/yr
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 9.0 Operational Offroad

---

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

## 10.0 Vegetation

---

*Attachment B-2*  
*CalEEMod – Hut Installation*  
*Output Files*

## Google Fiber

### Santa Clara County, Annual

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.40	1000sqft	0.03	1,400.00	0

### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Off-road Equipment - One Crane.

Off-road Equipment - In order to save defaults for worker trips.

Off-road Equipment - In order to save defaults for worker trips.

Trips and VMT - The hauling trip is to bring in the hut materials. It will only take one hauling trip per hut.

Grading - None.

Road Dust -

Consumer Products - none.

Area Coating - none.

Construction Off-road Equipment Mitigation - Offroad equipment will be tier 4 interim.

Area Mitigation -

Operational Off-Road Equipment - The natural gas generator will run for 26 hours per year (half an hour per week).

Construction Phase - Hut Site Preparation will consist of a hauling truck bringing in the hut materials. The rest of the scheduled 59 days will just be setting the

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	59.00
tblConstructionPhase	PhaseEndDate	3/27/2015	3/29/2015
tblEnergyUse	LightingElect	3.52	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	1.81	0.00
tblEnergyUse	T24NG	20.74	0.00
tblGrading	MeanVehicleSpeed	7.10	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	PhaseName		Hut Site Preparation
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	52.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	84.00	40.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.50
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	1.74	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	1.00	12.00
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.78	2.77
tblVehicleEF	HHD	1.56	2.01
tblVehicleEF	HHD	72.08	82.76

tblVehicleEF	HHD	566.73	576.43
tblVehicleEF	HHD	1,673.02	1,715.33
tblVehicleEF	HHD	67.20	79.79
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	5.00	6.02
tblVehicleEF	HHD	6.27	8.58
tblVehicleEF	HHD	4.26	4.49
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.16
tblVehicleEF	HHD	5.5890e-003	9.1230e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6910e-003	8.6860e-003
tblVehicleEF	HHD	0.08	0.15
tblVehicleEF	HHD	4.4110e-003	7.0970e-003
tblVehicleEF	HHD	2.7000e-003	3.8660e-003
tblVehicleEF	HHD	0.21	0.32
tblVehicleEF	HHD	0.50	0.53
tblVehicleEF	HHD	1.3830e-003	1.8700e-003
tblVehicleEF	HHD	0.26	0.35
tblVehicleEF	HHD	0.81	1.18
tblVehicleEF	HHD	3.15	4.21
tblVehicleEF	HHD	5.6030e-003	5.5830e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.9260e-003	2.2410e-003
tblVehicleEF	HHD	2.7000e-003	3.8660e-003
tblVehicleEF	HHD	0.21	0.32
tblVehicleEF	HHD	0.57	0.60

tblVehicleEF	HHD	1.3830e-003	1.8700e-003
tblVehicleEF	HHD	0.30	0.39
tblVehicleEF	HHD	0.81	1.18
tblVehicleEF	HHD	3.38	4.52
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.02	2.02
tblVehicleEF	HHD	1.57	2.02
tblVehicleEF	HHD	56.84	68.90
tblVehicleEF	HHD	600.40	610.68
tblVehicleEF	HHD	1,673.02	1,715.33
tblVehicleEF	HHD	67.20	79.79
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	5.17	6.21
tblVehicleEF	HHD	6.04	8.26
tblVehicleEF	HHD	3.99	4.19
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.16
tblVehicleEF	HHD	5.5890e-003	9.1230e-003
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6910e-003	8.6860e-003
tblVehicleEF	HHD	0.08	0.15
tblVehicleEF	HHD	4.4110e-003	7.0970e-003
tblVehicleEF	HHD	6.8470e-003	9.9700e-003
tblVehicleEF	HHD	0.23	0.35
tblVehicleEF	HHD	0.47	0.50
tblVehicleEF	HHD	3.5540e-003	4.9820e-003

tblVehicleEF	HHD	0.26	0.35
tblVehicleEF	HHD	0.80	1.17
tblVehicleEF	HHD	2.49	3.29
tblVehicleEF	HHD	5.9360e-003	5.9150e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6660e-003	1.9940e-003
tblVehicleEF	HHD	6.8470e-003	9.9700e-003
tblVehicleEF	HHD	0.23	0.35
tblVehicleEF	HHD	0.53	0.57
tblVehicleEF	HHD	3.5540e-003	4.9820e-003
tblVehicleEF	HHD	0.30	0.40
tblVehicleEF	HHD	0.80	1.17
tblVehicleEF	HHD	2.67	3.53
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	3.82	3.82
tblVehicleEF	HHD	1.55	2.02
tblVehicleEF	HHD	87.43	97.60
tblVehicleEF	HHD	520.24	529.14
tblVehicleEF	HHD	1,673.02	1,715.33
tblVehicleEF	HHD	67.20	79.79
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.78	5.75
tblVehicleEF	HHD	6.37	8.72
tblVehicleEF	HHD	4.50	4.73
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.16
tblVehicleEF	HHD	5.5890e-003	9.1230e-003

tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6910e-003	8.6860e-003
tblVehicleEF	HHD	0.08	0.15
tblVehicleEF	HHD	4.4110e-003	7.0970e-003
tblVehicleEF	HHD	1.1920e-003	1.6500e-003
tblVehicleEF	HHD	0.27	0.42
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	5.9200e-004	7.6100e-004
tblVehicleEF	HHD	0.26	0.35
tblVehicleEF	HHD	0.89	1.29
tblVehicleEF	HHD	3.79	5.11
tblVehicleEF	HHD	5.1430e-003	5.1250e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.1870e-003	2.5030e-003
tblVehicleEF	HHD	1.1920e-003	1.6500e-003
tblVehicleEF	HHD	0.27	0.42
tblVehicleEF	HHD	0.61	0.65
tblVehicleEF	HHD	5.9200e-004	7.6100e-004
tblVehicleEF	HHD	0.30	0.39
tblVehicleEF	HHD	0.89	1.29
tblVehicleEF	HHD	4.06	5.50
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	1.04	1.33
tblVehicleEF	LDA	2.33	3.02
tblVehicleEF	LDA	270.88	292.97
tblVehicleEF	LDA	61.73	66.26
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.10	0.13

tblVehicleEF	LDA	0.15	0.20
tblVehicleEF	LDA	1.7950e-003	2.0680e-003
tblVehicleEF	LDA	2.9410e-003	3.0280e-003
tblVehicleEF	LDA	1.6470e-003	1.8860e-003
tblVehicleEF	LDA	2.7050e-003	2.7670e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.14	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.31	0.38
tblVehicleEF	LDA	0.18	0.25
tblVehicleEF	LDA	7.7400e-004	7.8500e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.14	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.31	0.38
tblVehicleEF	LDA	0.19	0.27
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	1.20	1.52
tblVehicleEF	LDA	1.62	2.11
tblVehicleEF	LDA	292.03	315.83
tblVehicleEF	LDA	61.73	66.26
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.13	0.18
tblVehicleEF	LDA	1.7950e-003	2.0680e-003
tblVehicleEF	LDA	2.9410e-003	3.0280e-003
tblVehicleEF	LDA	1.6470e-003	1.8860e-003

tblVehicleEF	LDA	2.7050e-003	2.7670e-003
tblVehicleEF	LDA	0.12	0.15
tblVehicleEF	LDA	0.16	0.19
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.29	0.36
tblVehicleEF	LDA	0.14	0.19
tblVehicleEF	LDA	7.6200e-004	7.6900e-004
tblVehicleEF	LDA	0.12	0.15
tblVehicleEF	LDA	0.16	0.19
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.29	0.36
tblVehicleEF	LDA	0.15	0.21
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	1.03	1.34
tblVehicleEF	LDA	2.86	3.69
tblVehicleEF	LDA	267.40	289.21
tblVehicleEF	LDA	61.73	66.26
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.11	0.14
tblVehicleEF	LDA	0.16	0.22
tblVehicleEF	LDA	1.7950e-003	2.0680e-003
tblVehicleEF	LDA	2.9410e-003	3.0280e-003
tblVehicleEF	LDA	1.6470e-003	1.8860e-003
tblVehicleEF	LDA	2.7050e-003	2.7670e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.15	0.18
tblVehicleEF	LDA	0.02	0.02

tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.36	0.44
tblVehicleEF	LDA	0.21	0.29
tblVehicleEF	LDA	3.2770e-003	3.2780e-003
tblVehicleEF	LDA	7.8300e-004	7.9700e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.15	0.18
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.36	0.44
tblVehicleEF	LDA	0.23	0.31
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.76	3.43
tblVehicleEF	LDT1	5.74	6.85
tblVehicleEF	LDT1	325.99	347.50
tblVehicleEF	LDT1	73.48	78.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.30	0.36
tblVehicleEF	LDT1	0.30	0.36
tblVehicleEF	LDT1	4.0830e-003	4.7720e-003
tblVehicleEF	LDT1	5.1970e-003	5.7710e-003
tblVehicleEF	LDT1	3.7480e-003	4.3510e-003
tblVehicleEF	LDT1	4.7790e-003	5.2710e-003
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.33	0.35
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	1.21	1.34
tblVehicleEF	LDT1	0.44	0.54

tblVehicleEF	LDT1	3.8570e-003	3.8610e-003
tblVehicleEF	LDT1	9.4500e-004	9.6500e-004
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.33	0.35
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.10	0.14
tblVehicleEF	LDT1	1.21	1.34
tblVehicleEF	LDT1	0.47	0.58
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	3.11	3.82
tblVehicleEF	LDT1	4.00	4.80
tblVehicleEF	LDT1	349.39	372.24
tblVehicleEF	LDT1	73.48	78.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.26	0.32
tblVehicleEF	LDT1	0.27	0.32
tblVehicleEF	LDT1	4.0830e-003	4.7720e-003
tblVehicleEF	LDT1	5.1970e-003	5.7710e-003
tblVehicleEF	LDT1	3.7480e-003	4.3510e-003
tblVehicleEF	LDT1	4.7790e-003	5.2710e-003
tblVehicleEF	LDT1	0.35	0.39
tblVehicleEF	LDT1	0.38	0.42
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	1.12	1.23
tblVehicleEF	LDT1	0.34	0.42
tblVehicleEF	LDT1	4.1400e-003	4.1410e-003
tblVehicleEF	LDT1	9.1500e-004	9.2900e-004
tblVehicleEF	LDT1	0.35	0.39

tblVehicleEF	LDT1	0.38	0.42
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	0.11	0.15
tblVehicleEF	LDT1	1.12	1.23
tblVehicleEF	LDT1	0.36	0.45
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.77	3.47
tblVehicleEF	LDT1	7.03	8.36
tblVehicleEF	LDT1	322.14	343.42
tblVehicleEF	LDT1	73.48	78.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.32	0.39
tblVehicleEF	LDT1	0.33	0.39
tblVehicleEF	LDT1	4.0830e-003	4.7720e-003
tblVehicleEF	LDT1	5.1970e-003	5.7710e-003
tblVehicleEF	LDT1	3.7480e-003	4.3510e-003
tblVehicleEF	LDT1	4.7790e-003	5.2710e-003
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.36	0.39
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	1.50	1.65
tblVehicleEF	LDT1	0.52	0.64
tblVehicleEF	LDT1	3.8110e-003	3.8170e-003
tblVehicleEF	LDT1	9.6800e-004	9.9200e-004
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.36	0.39
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.11	0.14

tblVehicleEF	LDT1	1.50	1.65
tblVehicleEF	LDT1	0.55	0.68
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	1.44	1.79
tblVehicleEF	LDT2	3.39	4.21
tblVehicleEF	LDT2	392.98	416.99
tblVehicleEF	LDT2	88.52	93.34
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.18	0.24
tblVehicleEF	LDT2	0.30	0.39
tblVehicleEF	LDT2	1.7600e-003	1.9770e-003
tblVehicleEF	LDT2	2.8780e-003	2.9010e-003
tblVehicleEF	LDT2	1.6170e-003	1.8070e-003
tblVehicleEF	LDT2	2.6530e-003	2.6610e-003
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.54	0.61
tblVehicleEF	LDT2	0.25	0.32
tblVehicleEF	LDT2	4.5270e-003	4.5330e-003
tblVehicleEF	LDT2	1.0600e-003	1.0720e-003
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.54	0.61
tblVehicleEF	LDT2	0.27	0.34
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	1.66	2.05
tblVehicleEF	LDT2	2.34	2.92
tblVehicleEF	LDT2	422.69	448.41
tblVehicleEF	LDT2	88.52	93.34
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.16	0.21
tblVehicleEF	LDT2	0.27	0.35
tblVehicleEF	LDT2	1.7600e-003	1.9770e-003
tblVehicleEF	LDT2	2.8780e-003	2.9010e-003
tblVehicleEF	LDT2	1.6170e-003	1.8070e-003
tblVehicleEF	LDT2	2.6530e-003	2.6610e-003
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.18	0.20
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.50	0.56
tblVehicleEF	LDT2	0.19	0.25
tblVehicleEF	LDT2	4.8730e-003	4.8780e-003
tblVehicleEF	LDT2	1.0420e-003	1.0500e-003
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.18	0.20
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.50	0.56
tblVehicleEF	LDT2	0.21	0.26
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	1.43	1.79
tblVehicleEF	LDT2	4.15	5.15

tblVehicleEF	LDT2	388.08	411.82
tblVehicleEF	LDT2	88.52	93.34
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.20	0.26
tblVehicleEF	LDT2	0.33	0.42
tblVehicleEF	LDT2	1.7600e-003	1.9770e-003
tblVehicleEF	LDT2	2.8780e-003	2.9010e-003
tblVehicleEF	LDT2	1.6170e-003	1.8070e-003
tblVehicleEF	LDT2	2.6530e-003	2.6610e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.66	0.75
tblVehicleEF	LDT2	0.29	0.38
tblVehicleEF	LDT2	4.4700e-003	4.4770e-003
tblVehicleEF	LDT2	1.0730e-003	1.0890e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.66	0.75
tblVehicleEF	LDT2	0.31	0.40
tblVehicleEF	LHD1	1.2850e-003	1.2950e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.19	0.19
tblVehicleEF	LHD1	2.21	2.62
tblVehicleEF	LHD1	5.56	6.15
tblVehicleEF	LHD1	8.29	8.46

tblVehicleEF	LHD1	827.59	844.87
tblVehicleEF	LHD1	43.14	43.71
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	1.33	1.53
tblVehicleEF	LHD1	1.37	1.42
tblVehicleEF	LHD1	5.4200e-004	5.5600e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.0230e-003	9.0250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3510e-003	1.5650e-003
tblVehicleEF	LHD1	4.9900e-004	5.1200e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.2450e-003	1.4390e-003
tblVehicleEF	LHD1	2.7060e-003	2.7900e-003
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2910e-003	1.2700e-003
tblVehicleEF	LHD1	0.19	0.23
tblVehicleEF	LHD1	0.63	0.63
tblVehicleEF	LHD1	0.48	0.52
tblVehicleEF	LHD1	8.5370e-003	8.5450e-003
tblVehicleEF	LHD1	5.4900e-004	5.5600e-004
tblVehicleEF	LHD1	2.7060e-003	2.7900e-003
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2910e-003	1.2700e-003
tblVehicleEF	LHD1	0.23	0.26
tblVehicleEF	LHD1	0.63	0.63

tblVehicleEF	LHD1	0.51	0.56
tblVehicleEF	LHD1	1.2850e-003	1.2950e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.19	0.19
tblVehicleEF	LHD1	2.27	2.70
tblVehicleEF	LHD1	3.95	4.36
tblVehicleEF	LHD1	8.29	8.46
tblVehicleEF	LHD1	827.59	844.87
tblVehicleEF	LHD1	43.14	43.71
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	1.26	1.44
tblVehicleEF	LHD1	1.29	1.33
tblVehicleEF	LHD1	5.4200e-004	5.5600e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.0230e-003	9.0250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3510e-003	1.5650e-003
tblVehicleEF	LHD1	4.9900e-004	5.1200e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.2450e-003	1.4390e-003
tblVehicleEF	LHD1	6.3570e-003	6.6520e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9060e-003	2.9630e-003
tblVehicleEF	LHD1	0.20	0.23
tblVehicleEF	LHD1	0.61	0.61
tblVehicleEF	LHD1	0.39	0.43

tblVehicleEF	LHD1	8.5380e-003	8.5470e-003
tblVehicleEF	LHD1	5.2100e-004	5.2500e-004
tblVehicleEF	LHD1	6.3570e-003	6.6520e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9060e-003	2.9630e-003
tblVehicleEF	LHD1	0.23	0.27
tblVehicleEF	LHD1	0.61	0.61
tblVehicleEF	LHD1	0.42	0.46
tblVehicleEF	LHD1	1.2850e-003	1.2950e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.19	0.19
tblVehicleEF	LHD1	2.17	2.58
tblVehicleEF	LHD1	7.11	7.87
tblVehicleEF	LHD1	8.29	8.46
tblVehicleEF	LHD1	827.59	844.87
tblVehicleEF	LHD1	43.14	43.71
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	1.37	1.57
tblVehicleEF	LHD1	1.45	1.49
tblVehicleEF	LHD1	5.4200e-004	5.5600e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.0230e-003	9.0250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3510e-003	1.5650e-003
tblVehicleEF	LHD1	4.9900e-004	5.1200e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02

tblVehicleEF	LHD1	1.2450e-003	1.4390e-003
tblVehicleEF	LHD1	1.2940e-003	1.3080e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	6.3400e-004	6.0500e-004
tblVehicleEF	LHD1	0.19	0.22
tblVehicleEF	LHD1	0.70	0.70
tblVehicleEF	LHD1	0.56	0.61
tblVehicleEF	LHD1	8.5360e-003	8.5440e-003
tblVehicleEF	LHD1	5.7500e-004	5.8600e-004
tblVehicleEF	LHD1	1.2940e-003	1.3080e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	6.3400e-004	6.0500e-004
tblVehicleEF	LHD1	0.22	0.26
tblVehicleEF	LHD1	0.70	0.70
tblVehicleEF	LHD1	0.59	0.65
tblVehicleEF	LHD2	9.5900e-004	9.6700e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	1.64	2.10
tblVehicleEF	LHD2	3.38	3.96
tblVehicleEF	LHD2	9.26	9.45
tblVehicleEF	LHD2	697.82	711.57
tblVehicleEF	LHD2	27.39	28.02
tblVehicleEF	LHD2	4.4590e-003	4.5060e-003
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	2.20	2.55
tblVehicleEF	LHD2	0.82	0.86

tblVehicleEF	LHD2	1.2270e-003	1.2510e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	9.0200e-004	1.1770e-003
tblVehicleEF	LHD2	1.1290e-003	1.1510e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.5570e-003	2.5600e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.0900e-004	1.0440e-003
tblVehicleEF	LHD2	1.6650e-003	1.8600e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.8100e-004	8.2700e-004
tblVehicleEF	LHD2	0.18	0.22
tblVehicleEF	LHD2	0.41	0.45
tblVehicleEF	LHD2	0.29	0.34
tblVehicleEF	LHD2	7.1100e-003	7.1090e-003
tblVehicleEF	LHD2	3.4500e-004	3.5700e-004
tblVehicleEF	LHD2	1.6650e-003	1.8600e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.8100e-004	8.2700e-004
tblVehicleEF	LHD2	0.21	0.25
tblVehicleEF	LHD2	0.41	0.45
tblVehicleEF	LHD2	0.31	0.37
tblVehicleEF	LHD2	9.5900e-004	9.6700e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.14	0.15

tblVehicleEF	LHD2	1.66	2.12
tblVehicleEF	LHD2	2.45	2.89
tblVehicleEF	LHD2	9.26	9.45
tblVehicleEF	LHD2	697.82	711.57
tblVehicleEF	LHD2	27.39	28.02
tblVehicleEF	LHD2	4.4590e-003	4.5060e-003
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	2.11	2.44
tblVehicleEF	LHD2	0.77	0.81
tblVehicleEF	LHD2	1.2270e-003	1.2510e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	9.0200e-004	1.1770e-003
tblVehicleEF	LHD2	1.1290e-003	1.1510e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.5570e-003	2.5600e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.0900e-004	1.0440e-003
tblVehicleEF	LHD2	3.9400e-003	4.4780e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.7850e-003	1.9700e-003
tblVehicleEF	LHD2	0.18	0.22
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	0.24	0.28
tblVehicleEF	LHD2	3.2900e-004	3.3800e-004
tblVehicleEF	LHD2	3.9400e-003	4.4780e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	1.7850e-003	1.9700e-003
tblVehicleEF	LHD2	0.21	0.25
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	0.26	0.30
tblVehicleEF	LHD2	9.5900e-004	9.6700e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	1.64	2.11
tblVehicleEF	LHD2	4.26	4.99
tblVehicleEF	LHD2	9.26	9.45
tblVehicleEF	LHD2	697.82	711.57
tblVehicleEF	LHD2	27.39	28.02
tblVehicleEF	LHD2	4.4590e-003	4.5060e-003
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	2.25	2.60
tblVehicleEF	LHD2	0.86	0.91
tblVehicleEF	LHD2	1.2270e-003	1.2510e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	9.0200e-004	1.1770e-003
tblVehicleEF	LHD2	1.1290e-003	1.1510e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.5570e-003	2.5600e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.0900e-004	1.0440e-003
tblVehicleEF	LHD2	7.9400e-004	8.6500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	3.8300e-004	3.9000e-004
tblVehicleEF	LHD2	0.18	0.22
tblVehicleEF	LHD2	0.46	0.50
tblVehicleEF	LHD2	0.34	0.40
tblVehicleEF	LHD2	7.1100e-003	7.1090e-003
tblVehicleEF	LHD2	3.6100e-004	3.7500e-004
tblVehicleEF	LHD2	7.9400e-004	8.6500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.8300e-004	3.9000e-004
tblVehicleEF	LHD2	0.21	0.25
tblVehicleEF	LHD2	0.46	0.50
tblVehicleEF	LHD2	0.36	0.43
tblVehicleEF	MCY	25.58	28.00
tblVehicleEF	MCY	10.60	10.43
tblVehicleEF	MCY	146.95	144.93
tblVehicleEF	MCY	43.53	46.24
tblVehicleEF	MCY	6.0120e-003	5.9200e-003
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.31	0.32
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	5.6000e-004	7.9400e-004
tblVehicleEF	MCY	1.5700e-003	2.1640e-003
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	4.5400e-004	6.3500e-004
tblVehicleEF	MCY	1.2580e-003	1.7060e-003
tblVehicleEF	MCY	0.03	0.03
tblVehicleEF	MCY	0.43	0.48
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	2.61	2.71

tblVehicleEF	MCY	1.55	1.84
tblVehicleEF	MCY	2.28	2.34
tblVehicleEF	MCY	2.0060e-003	1.9960e-003
tblVehicleEF	MCY	6.8900e-004	7.0700e-004
tblVehicleEF	MCY	0.03	0.03
tblVehicleEF	MCY	0.43	0.48
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	2.85	2.96
tblVehicleEF	MCY	1.55	1.84
tblVehicleEF	MCY	2.45	2.52
tblVehicleEF	MCY	24.41	26.65
tblVehicleEF	MCY	8.81	8.79
tblVehicleEF	MCY	146.95	144.93
tblVehicleEF	MCY	43.53	46.24
tblVehicleEF	MCY	6.0120e-003	5.9200e-003
tblVehicleEF	MCY	1.09	1.11
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	5.6000e-004	7.9400e-004
tblVehicleEF	MCY	1.5700e-003	2.1640e-003
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	4.5400e-004	6.3500e-004
tblVehicleEF	MCY	1.2580e-003	1.7060e-003
tblVehicleEF	MCY	0.08	0.09
tblVehicleEF	MCY	0.60	0.65
tblVehicleEF	MCY	0.05	0.05
tblVehicleEF	MCY	2.50	2.58
tblVehicleEF	MCY	1.43	1.71
tblVehicleEF	MCY	1.86	1.90
tblVehicleEF	MCY	1.9840e-003	1.9710e-003

tblVehicleEF	MCY	6.4800e-004	6.6700e-004
tblVehicleEF	MCY	0.08	0.09
tblVehicleEF	MCY	0.60	0.65
tblVehicleEF	MCY	0.05	0.05
tblVehicleEF	MCY	2.74	2.82
tblVehicleEF	MCY	1.43	1.71
tblVehicleEF	MCY	2.00	2.04
tblVehicleEF	MCY	27.87	30.61
tblVehicleEF	MCY	12.43	12.15
tblVehicleEF	MCY	146.95	144.93
tblVehicleEF	MCY	43.53	46.24
tblVehicleEF	MCY	6.0120e-003	5.9200e-003
tblVehicleEF	MCY	1.33	1.36
tblVehicleEF	MCY	0.33	0.34
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	5.6000e-004	7.9400e-004
tblVehicleEF	MCY	1.5700e-003	2.1640e-003
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	4.5400e-004	6.3500e-004
tblVehicleEF	MCY	1.2580e-003	1.7060e-003
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	0.51	0.59
tblVehicleEF	MCY	5.4450e-003	5.7020e-003
tblVehicleEF	MCY	2.73	2.85
tblVehicleEF	MCY	1.89	2.22
tblVehicleEF	MCY	2.68	2.76
tblVehicleEF	MCY	2.0460e-003	2.0420e-003
tblVehicleEF	MCY	7.3100e-004	7.4800e-004
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	0.51	0.59

tblVehicleEF	MCY	5.4450e-003	5.7020e-003
tblVehicleEF	MCY	2.98	3.11
tblVehicleEF	MCY	1.89	2.22
tblVehicleEF	MCY	2.88	2.97
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.29	2.60
tblVehicleEF	MDV	6.04	6.79
tblVehicleEF	MDV	513.72	538.78
tblVehicleEF	MDV	115.02	119.69
tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.33	0.39
tblVehicleEF	MDV	0.54	0.62
tblVehicleEF	MDV	2.1620e-003	2.3140e-003
tblVehicleEF	MDV	3.5780e-003	3.6710e-003
tblVehicleEF	MDV	1.9940e-003	2.1290e-003
tblVehicleEF	MDV	3.3040e-003	3.3840e-003
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.70	0.69
tblVehicleEF	MDV	0.52	0.59
tblVehicleEF	MDV	5.7550e-003	5.7470e-003
tblVehicleEF	MDV	1.3690e-003	1.3780e-003
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.70	0.69

tblVehicleEF	MDV	0.55	0.63
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.64	2.99
tblVehicleEF	MDV	4.18	4.71
tblVehicleEF	MDV	552.01	578.80
tblVehicleEF	MDV	115.02	119.69
tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.30	0.35
tblVehicleEF	MDV	0.49	0.55
tblVehicleEF	MDV	2.1620e-003	2.3140e-003
tblVehicleEF	MDV	3.5780e-003	3.6710e-003
tblVehicleEF	MDV	1.9940e-003	2.1290e-003
tblVehicleEF	MDV	3.3040e-003	3.3840e-003
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.65	0.64
tblVehicleEF	MDV	0.40	0.46
tblVehicleEF	MDV	6.1890e-003	6.1790e-003
tblVehicleEF	MDV	1.3360e-003	1.3410e-003
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.65	0.64
tblVehicleEF	MDV	0.43	0.49
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03

tblVehicleEF	MDV	2.28	2.60
tblVehicleEF	MDV	7.40	8.32
tblVehicleEF	MDV	507.41	532.18
tblVehicleEF	MDV	115.02	119.69
tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.37	0.43
tblVehicleEF	MDV	0.59	0.67
tblVehicleEF	MDV	2.1620e-003	2.3140e-003
tblVehicleEF	MDV	3.5780e-003	3.6710e-003
tblVehicleEF	MDV	1.9940e-003	2.1290e-003
tblVehicleEF	MDV	3.3040e-003	3.3840e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.22	0.21
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.85	0.84
tblVehicleEF	MDV	0.61	0.69
tblVehicleEF	MDV	5.6840e-003	5.6770e-003
tblVehicleEF	MDV	1.3930e-003	1.4050e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.22	0.21
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.85	0.84
tblVehicleEF	MDV	0.65	0.74
tblVehicleEF	MH	5.17	7.62
tblVehicleEF	MH	10.80	12.79
tblVehicleEF	MH	720.30	736.07
tblVehicleEF	MH	34.66	35.57
tblVehicleEF	MH	1.7630e-003	1.7650e-003

tblVehicleEF	MH	1.78	2.05
tblVehicleEF	MH	1.04	1.17
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5300e-003	8.5380e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.2560e-003	1.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1320e-003	2.1340e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.1550e-003	1.4670e-003
tblVehicleEF	MH	2.8930e-003	3.3220e-003
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	9.6300e-004	1.0840e-003
tblVehicleEF	MH	0.19	0.28
tblVehicleEF	MH	2.57	2.75
tblVehicleEF	MH	0.57	0.68
tblVehicleEF	MH	7.4670e-003	7.5160e-003
tblVehicleEF	MH	5.4600e-004	5.8300e-004
tblVehicleEF	MH	2.8930e-003	3.3220e-003
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	9.6300e-004	1.0840e-003
tblVehicleEF	MH	0.23	0.32
tblVehicleEF	MH	2.57	2.75
tblVehicleEF	MH	0.61	0.72
tblVehicleEF	MH	5.29	7.73
tblVehicleEF	MH	7.42	8.67
tblVehicleEF	MH	720.30	736.07
tblVehicleEF	MH	34.66	35.57
tblVehicleEF	MH	1.7630e-003	1.7650e-003
tblVehicleEF	MH	1.65	1.89

tblVehicleEF	MH	0.97	1.10
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5300e-003	8.5380e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.2560e-003	1.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1320e-003	2.1340e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.1550e-003	1.4670e-003
tblVehicleEF	MH	6.7020e-003	7.7950e-003
tblVehicleEF	MH	0.11	0.12
tblVehicleEF	MH	2.1320e-003	2.4720e-003
tblVehicleEF	MH	0.20	0.28
tblVehicleEF	MH	2.50	2.68
tblVehicleEF	MH	0.45	0.52
tblVehicleEF	MH	7.4690e-003	7.5170e-003
tblVehicleEF	MH	4.8900e-004	5.1300e-004
tblVehicleEF	MH	6.7020e-003	7.7950e-003
tblVehicleEF	MH	0.11	0.12
tblVehicleEF	MH	2.1320e-003	2.4720e-003
tblVehicleEF	MH	0.24	0.32
tblVehicleEF	MH	2.50	2.68
tblVehicleEF	MH	0.48	0.56
tblVehicleEF	MH	5.17	7.71
tblVehicleEF	MH	14.10	16.85
tblVehicleEF	MH	720.30	736.07
tblVehicleEF	MH	34.66	35.57
tblVehicleEF	MH	1.7630e-003	1.7650e-003
tblVehicleEF	MH	1.85	2.14
tblVehicleEF	MH	1.09	1.23

tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5300e-003	8.5380e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.2560e-003	1.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1320e-003	2.1340e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.1550e-003	1.4670e-003
tblVehicleEF	MH	1.3700e-003	1.5420e-003
tblVehicleEF	MH	0.12	0.14
tblVehicleEF	MH	5.0900e-004	5.5900e-004
tblVehicleEF	MH	0.19	0.28
tblVehicleEF	MH	2.76	2.95
tblVehicleEF	MH	0.69	0.83
tblVehicleEF	MH	7.4670e-003	7.5170e-003
tblVehicleEF	MH	6.0100e-004	6.5100e-004
tblVehicleEF	MH	1.3700e-003	1.5420e-003
tblVehicleEF	MH	0.12	0.14
tblVehicleEF	MH	5.0900e-004	5.5900e-004
tblVehicleEF	MH	0.23	0.32
tblVehicleEF	MH	2.76	2.95
tblVehicleEF	MH	0.73	0.88
tblVehicleEF	MHD	7.6620e-003	9.6350e-003
tblVehicleEF	MHD	7.8210e-003	0.01
tblVehicleEF	MHD	1.86	2.03
tblVehicleEF	MHD	1.26	1.77
tblVehicleEF	MHD	25.08	29.48
tblVehicleEF	MHD	606.08	606.00
tblVehicleEF	MHD	1,073.83	1,101.54
tblVehicleEF	MHD	58.85	64.04

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.23	7.19
tblVehicleEF	MHD	3.57	5.12
tblVehicleEF	MHD	2.27	2.57
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.09	0.14
tblVehicleEF	MHD	4.0060e-003	5.6080e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	3.3940e-003	4.6700e-003
tblVehicleEF	MHD	3.3150e-003	3.9910e-003
tblVehicleEF	MHD	0.16	0.21
tblVehicleEF	MHD	0.16	0.21
tblVehicleEF	MHD	1.5630e-003	1.8220e-003
tblVehicleEF	MHD	0.21	0.30
tblVehicleEF	MHD	0.71	0.86
tblVehicleEF	MHD	1.61	2.02
tblVehicleEF	MHD	5.9920e-003	5.8700e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.0540e-003	1.1760e-003
tblVehicleEF	MHD	3.3150e-003	3.9910e-003
tblVehicleEF	MHD	0.16	0.21
tblVehicleEF	MHD	0.19	0.24
tblVehicleEF	MHD	1.5630e-003	1.8220e-003
tblVehicleEF	MHD	0.23	0.34
tblVehicleEF	MHD	0.71	0.86
tblVehicleEF	MHD	1.73	2.17

tblVehicleEF	MHD	7.2210e-003	9.0800e-003
tblVehicleEF	MHD	7.8210e-003	0.01
tblVehicleEF	MHD	1.35	1.47
tblVehicleEF	MHD	1.27	1.78
tblVehicleEF	MHD	18.30	21.84
tblVehicleEF	MHD	642.09	642.00
tblVehicleEF	MHD	1,073.83	1,101.54
tblVehicleEF	MHD	58.85	64.04
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.43	7.42
tblVehicleEF	MHD	3.42	4.90
tblVehicleEF	MHD	2.13	2.41
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.09	0.14
tblVehicleEF	MHD	4.0060e-003	5.6080e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	3.3940e-003	4.6700e-003
tblVehicleEF	MHD	8.1390e-003	9.9530e-003
tblVehicleEF	MHD	0.18	0.23
tblVehicleEF	MHD	0.16	0.20
tblVehicleEF	MHD	3.8230e-003	4.6110e-003
tblVehicleEF	MHD	0.21	0.30
tblVehicleEF	MHD	0.69	0.84
tblVehicleEF	MHD	1.28	1.59
tblVehicleEF	MHD	6.3480e-003	6.2180e-003
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	9.3700e-004	1.0420e-003
tblVehicleEF	MHD	8.1390e-003	9.9530e-003
tblVehicleEF	MHD	0.18	0.23
tblVehicleEF	MHD	0.18	0.22
tblVehicleEF	MHD	3.8230e-003	4.6110e-003
tblVehicleEF	MHD	0.24	0.34
tblVehicleEF	MHD	0.69	0.84
tblVehicleEF	MHD	1.37	1.71
tblVehicleEF	MHD	8.2720e-003	0.01
tblVehicleEF	MHD	7.8210e-003	0.01
tblVehicleEF	MHD	2.56	2.80
tblVehicleEF	MHD	1.26	1.78
tblVehicleEF	MHD	31.65	36.96
tblVehicleEF	MHD	556.36	556.28
tblVehicleEF	MHD	1,073.83	1,101.54
tblVehicleEF	MHD	58.85	64.04
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.95	6.87
tblVehicleEF	MHD	3.64	5.21
tblVehicleEF	MHD	2.39	2.71
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.09	0.14
tblVehicleEF	MHD	4.0060e-003	5.6080e-003
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.08	0.13
tblVehicleEF	MHD	3.3940e-003	4.6700e-003
tblVehicleEF	MHD	1.5040e-003	1.7700e-003

tblVehicleEF	MHD	0.19	0.26
tblVehicleEF	MHD	0.18	0.22
tblVehicleEF	MHD	7.0700e-004	7.9200e-004
tblVehicleEF	MHD	0.20	0.30
tblVehicleEF	MHD	0.79	0.96
tblVehicleEF	MHD	1.93	2.43
tblVehicleEF	MHD	5.5000e-003	5.3880e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.1670e-003	1.3060e-003
tblVehicleEF	MHD	1.5040e-003	1.7700e-003
tblVehicleEF	MHD	0.19	0.26
tblVehicleEF	MHD	0.20	0.25
tblVehicleEF	MHD	7.0700e-004	7.9200e-004
tblVehicleEF	MHD	0.23	0.34
tblVehicleEF	MHD	0.79	0.96
tblVehicleEF	MHD	2.07	2.61
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.2760e-003	3.4150e-003
tblVehicleEF	OBUS	2.36	2.30
tblVehicleEF	OBUS	1.56	2.04
tblVehicleEF	OBUS	11.63	12.75
tblVehicleEF	OBUS	571.35	573.90
tblVehicleEF	OBUS	1,115.97	1,128.75
tblVehicleEF	OBUS	35.40	36.88
tblVehicleEF	OBUS	1.7740e-003	1.7640e-003
tblVehicleEF	OBUS	5.94	7.28
tblVehicleEF	OBUS	4.20	5.72
tblVehicleEF	OBUS	1.55	1.66
tblVehicleEF	OBUS	0.02	0.06
tblVehicleEF	OBUS	0.09	0.09

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	7.0100e-004	1.0020e-003
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6040e-003	2.5830e-003
tblVehicleEF	OBUS	0.05	0.09
tblVehicleEF	OBUS	6.3400e-004	8.7500e-004
tblVehicleEF	OBUS	6.9500e-004	7.2000e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.41	0.49
tblVehicleEF	OBUS	3.0600e-004	2.9700e-004
tblVehicleEF	OBUS	0.18	0.25
tblVehicleEF	OBUS	0.24	0.22
tblVehicleEF	OBUS	0.69	0.78
tblVehicleEF	OBUS	5.6490e-003	5.5590e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.7100e-004	5.9800e-004
tblVehicleEF	OBUS	6.9500e-004	7.2000e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.47	0.56
tblVehicleEF	OBUS	3.0600e-004	2.9700e-004
tblVehicleEF	OBUS	0.21	0.29
tblVehicleEF	OBUS	0.24	0.22
tblVehicleEF	OBUS	0.74	0.83
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.2760e-003	3.4150e-003
tblVehicleEF	OBUS	1.72	1.67
tblVehicleEF	OBUS	1.60	2.08
tblVehicleEF	OBUS	8.34	9.22

tblVehicleEF	OBUS	605.30	607.99
tblVehicleEF	OBUS	1,115.97	1,128.75
tblVehicleEF	OBUS	35.40	36.88
tblVehicleEF	OBUS	1.7740e-003	1.7640e-003
tblVehicleEF	OBUS	6.13	7.51
tblVehicleEF	OBUS	4.01	5.47
tblVehicleEF	OBUS	1.45	1.56
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	7.0100e-004	1.0020e-003
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6040e-003	2.5830e-003
tblVehicleEF	OBUS	0.05	0.09
tblVehicleEF	OBUS	6.3400e-004	8.7500e-004
tblVehicleEF	OBUS	1.5800e-003	1.6870e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.39	0.46
tblVehicleEF	OBUS	6.7100e-004	6.9000e-004
tblVehicleEF	OBUS	0.19	0.26
tblVehicleEF	OBUS	0.23	0.22
tblVehicleEF	OBUS	0.57	0.64
tblVehicleEF	OBUS	5.9840e-003	5.8890e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.1500e-004	5.3900e-004
tblVehicleEF	OBUS	1.5800e-003	1.6870e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.44	0.53

tblVehicleEF	OBUS	6.7100e-004	6.9000e-004
tblVehicleEF	OBUS	0.22	0.30
tblVehicleEF	OBUS	0.23	0.22
tblVehicleEF	OBUS	0.61	0.68
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.2760e-003	3.4150e-003
tblVehicleEF	OBUS	3.26	3.17
tblVehicleEF	OBUS	1.54	2.02
tblVehicleEF	OBUS	14.76	16.12
tblVehicleEF	OBUS	524.48	526.81
tblVehicleEF	OBUS	1,115.97	1,128.75
tblVehicleEF	OBUS	35.40	36.88
tblVehicleEF	OBUS	1.7740e-003	1.7640e-003
tblVehicleEF	OBUS	5.67	6.96
tblVehicleEF	OBUS	4.28	5.83
tblVehicleEF	OBUS	1.63	1.75
tblVehicleEF	OBUS	0.02	0.07
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	7.0100e-004	1.0020e-003
tblVehicleEF	OBUS	0.02	0.07
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6040e-003	2.5830e-003
tblVehicleEF	OBUS	0.05	0.09
tblVehicleEF	OBUS	6.3400e-004	8.7500e-004
tblVehicleEF	OBUS	3.6500e-004	3.6100e-004
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.45	0.53
tblVehicleEF	OBUS	1.6900e-004	1.5700e-004

tblVehicleEF	OBUS	0.18	0.25
tblVehicleEF	OBUS	0.26	0.24
tblVehicleEF	OBUS	0.80	0.91
tblVehicleEF	OBUS	5.1850e-003	5.1030e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.2300e-004	6.5500e-004
tblVehicleEF	OBUS	3.6500e-004	3.6100e-004
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.51	0.60
tblVehicleEF	OBUS	1.6900e-004	1.5700e-004
tblVehicleEF	OBUS	0.21	0.29
tblVehicleEF	OBUS	0.26	0.24
tblVehicleEF	OBUS	0.86	0.97
tblVehicleEF	SBUS	5.4360e-003	5.3980e-003
tblVehicleEF	SBUS	7.2280e-003	6.9330e-003
tblVehicleEF	SBUS	1.06	1.04
tblVehicleEF	SBUS	6.05	7.13
tblVehicleEF	SBUS	39.29	42.69
tblVehicleEF	SBUS	570.82	581.72
tblVehicleEF	SBUS	1,090.32	1,115.98
tblVehicleEF	SBUS	124.01	126.84
tblVehicleEF	SBUS	5.2500e-004	5.3600e-004
tblVehicleEF	SBUS	8.09	8.19
tblVehicleEF	SBUS	7.96	8.11
tblVehicleEF	SBUS	2.86	3.04
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.53	0.53
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	4.8690e-003	5.5910e-003

tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6970e-003	2.7010e-003
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	4.4820e-003	5.1280e-003
tblVehicleEF	SBUS	2.7550e-003	2.9570e-003
tblVehicleEF	SBUS	0.19	0.20
tblVehicleEF	SBUS	0.12	0.12
tblVehicleEF	SBUS	9.3100e-004	9.7300e-004
tblVehicleEF	SBUS	0.49	0.54
tblVehicleEF	SBUS	1.53	1.61
tblVehicleEF	SBUS	2.51	2.71
tblVehicleEF	SBUS	5.6430e-003	5.6340e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9790e-003	2.0410e-003
tblVehicleEF	SBUS	2.7550e-003	2.9570e-003
tblVehicleEF	SBUS	0.19	0.20
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	9.3100e-004	9.7300e-004
tblVehicleEF	SBUS	0.55	0.60
tblVehicleEF	SBUS	1.53	1.61
tblVehicleEF	SBUS	2.68	2.90
tblVehicleEF	SBUS	5.1230e-003	5.0870e-003
tblVehicleEF	SBUS	7.2280e-003	6.9330e-003
tblVehicleEF	SBUS	0.77	0.76
tblVehicleEF	SBUS	6.09	7.11
tblVehicleEF	SBUS	31.47	34.08
tblVehicleEF	SBUS	604.73	616.28
tblVehicleEF	SBUS	1,090.32	1,115.98
tblVehicleEF	SBUS	124.01	126.84

tblVehicleEF	SBUS	5.2500e-004	5.3600e-004
tblVehicleEF	SBUS	8.35	8.46
tblVehicleEF	SBUS	7.60	7.74
tblVehicleEF	SBUS	2.65	2.82
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.53	0.53
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	4.8690e-003	5.5910e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6970e-003	2.7010e-003
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	4.4820e-003	5.1280e-003
tblVehicleEF	SBUS	6.4810e-003	7.0690e-003
tblVehicleEF	SBUS	0.20	0.21
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	2.1310e-003	2.3140e-003
tblVehicleEF	SBUS	0.50	0.54
tblVehicleEF	SBUS	1.34	1.40
tblVehicleEF	SBUS	2.19	2.35
tblVehicleEF	SBUS	5.9790e-003	5.9690e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.8460e-003	1.8950e-003
tblVehicleEF	SBUS	6.4810e-003	7.0690e-003
tblVehicleEF	SBUS	0.20	0.21
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	2.1310e-003	2.3140e-003
tblVehicleEF	SBUS	0.56	0.60
tblVehicleEF	SBUS	1.34	1.40

tblVehicleEF	SBUS	2.34	2.51
tblVehicleEF	SBUS	5.8680e-003	5.8270e-003
tblVehicleEF	SBUS	7.2280e-003	6.9330e-003
tblVehicleEF	SBUS	1.46	1.44
tblVehicleEF	SBUS	6.11	7.31
tblVehicleEF	SBUS	47.03	51.26
tblVehicleEF	SBUS	523.99	533.99
tblVehicleEF	SBUS	1,090.32	1,115.98
tblVehicleEF	SBUS	124.01	126.84
tblVehicleEF	SBUS	5.2500e-004	5.3600e-004
tblVehicleEF	SBUS	7.73	7.83
tblVehicleEF	SBUS	8.13	8.29
tblVehicleEF	SBUS	3.04	3.23
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.53	0.53
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	4.8690e-003	5.5910e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6970e-003	2.7010e-003
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	4.4820e-003	5.1280e-003
tblVehicleEF	SBUS	1.2900e-003	1.3510e-003
tblVehicleEF	SBUS	0.22	0.22
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	4.8100e-004	4.8800e-004
tblVehicleEF	SBUS	0.49	0.54
tblVehicleEF	SBUS	1.92	2.01
tblVehicleEF	SBUS	2.80	3.04

tblVehicleEF	SBUS	5.1800e-003	5.1720e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.1090e-003	2.1860e-003
tblVehicleEF	SBUS	1.2900e-003	1.3510e-003
tblVehicleEF	SBUS	0.22	0.22
tblVehicleEF	SBUS	0.14	0.14
tblVehicleEF	SBUS	4.8100e-004	4.8800e-004
tblVehicleEF	SBUS	0.55	0.60
tblVehicleEF	SBUS	1.92	2.01
tblVehicleEF	SBUS	2.99	3.24
tblVehicleEF	UBUS	5.68	7.05
tblVehicleEF	UBUS	11.04	11.94
tblVehicleEF	UBUS	2,360.66	2,423.86
tblVehicleEF	UBUS	20.78	21.86
tblVehicleEF	UBUS	1.2720e-003	1.2800e-003
tblVehicleEF	UBUS	19.58	20.21
tblVehicleEF	UBUS	1.06	1.07
tblVehicleEF	UBUS	0.37	0.38
tblVehicleEF	UBUS	7.4000e-004	1.1630e-003
tblVehicleEF	UBUS	0.34	0.35
tblVehicleEF	UBUS	6.6500e-004	9.9300e-004
tblVehicleEF	UBUS	4.2700e-004	5.2600e-004
tblVehicleEF	UBUS	0.08	0.11
tblVehicleEF	UBUS	1.9200e-004	2.3600e-004
tblVehicleEF	UBUS	1.07	1.15
tblVehicleEF	UBUS	0.49	0.57
tblVehicleEF	UBUS	0.72	0.84
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	4.1100e-004	4.3600e-004
tblVehicleEF	UBUS	4.2700e-004	5.2600e-004

tblVehicleEF	UBUS	0.08	0.11
tblVehicleEF	UBUS	1.9200e-004	2.3600e-004
tblVehicleEF	UBUS	1.19	1.28
tblVehicleEF	UBUS	0.49	0.57
tblVehicleEF	UBUS	0.77	0.90
tblVehicleEF	UBUS	5.76	7.05
tblVehicleEF	UBUS	8.26	9.05
tblVehicleEF	UBUS	2,360.66	2,423.86
tblVehicleEF	UBUS	20.78	21.86
tblVehicleEF	UBUS	1.2720e-003	1.2800e-003
tblVehicleEF	UBUS	18.78	19.39
tblVehicleEF	UBUS	0.99	1.00
tblVehicleEF	UBUS	0.37	0.38
tblVehicleEF	UBUS	7.4000e-004	1.1630e-003
tblVehicleEF	UBUS	0.34	0.35
tblVehicleEF	UBUS	6.6500e-004	9.9300e-004
tblVehicleEF	UBUS	1.0500e-003	1.3100e-003
tblVehicleEF	UBUS	0.09	0.12
tblVehicleEF	UBUS	4.8400e-004	6.1100e-004
tblVehicleEF	UBUS	1.10	1.17
tblVehicleEF	UBUS	0.45	0.53
tblVehicleEF	UBUS	0.59	0.69
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.6300e-004	3.8500e-004
tblVehicleEF	UBUS	1.0500e-003	1.3100e-003
tblVehicleEF	UBUS	0.09	0.12
tblVehicleEF	UBUS	4.8400e-004	6.1100e-004
tblVehicleEF	UBUS	1.22	1.30
tblVehicleEF	UBUS	0.45	0.53
tblVehicleEF	UBUS	0.64	0.73

tblVehicleEF	UBUS	5.66	7.18
tblVehicleEF	UBUS	13.68	14.72
tblVehicleEF	UBUS	2,360.66	2,423.86
tblVehicleEF	UBUS	20.78	21.86
tblVehicleEF	UBUS	1.2720e-003	1.2800e-003
tblVehicleEF	UBUS	19.90	20.54
tblVehicleEF	UBUS	1.11	1.13
tblVehicleEF	UBUS	0.37	0.38
tblVehicleEF	UBUS	7.4000e-004	1.1630e-003
tblVehicleEF	UBUS	0.34	0.35
tblVehicleEF	UBUS	6.6500e-004	9.9300e-004
tblVehicleEF	UBUS	2.1700e-004	2.6400e-004
tblVehicleEF	UBUS	0.10	0.14
tblVehicleEF	UBUS	9.0000e-005	1.0700e-004
tblVehicleEF	UBUS	1.06	1.14
tblVehicleEF	UBUS	0.59	0.68
tblVehicleEF	UBUS	0.84	0.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	4.5600e-004	4.8400e-004
tblVehicleEF	UBUS	2.1700e-004	2.6400e-004
tblVehicleEF	UBUS	0.10	0.14
tblVehicleEF	UBUS	9.0000e-005	1.0700e-004
tblVehicleEF	UBUS	1.18	1.27
tblVehicleEF	UBUS	0.59	0.68
tblVehicleEF	UBUS	0.89	1.05
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00

tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	323,750.00	0.00

## 2.0 Emissions Summary

---

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	1.5200e-003	2.4500e-003	0.0207	4.0000e-005	3.2900e-003	3.0000e-005	3.3300e-003	8.8000e-004	3.0000e-005	9.1000e-004	0.0000	3.0608	3.0608	1.7000e-004	0.0000	3.0644
Total	1.5200e-003	2.4500e-003	0.0207	4.0000e-005	3.2900e-003	3.0000e-005	3.3300e-003	8.8000e-004	3.0000e-005	9.1000e-004	0.0000	3.0608	3.0608	1.7000e-004	0.0000	3.0644

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

2015	1.5200e-003	2.4500e-003	0.0207	4.0000e-005	3.2900e-003	3.0000e-005	3.3300e-003	8.8000e-004	3.0000e-005	9.1000e-004	0.0000	3.0608	3.0608	1.7000e-004	0.0000	3.0644
Total	1.5200e-003	2.4500e-003	0.0207	4.0000e-005	3.2900e-003	3.0000e-005	3.3300e-003	8.8000e-004	3.0000e-005	9.1000e-004	0.0000	3.0608	3.0608	1.7000e-004	0.0000	3.0644

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000			0.0000	0.0000		0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	9.7000e-004	3.9700e-003	3.7400e-003	1.0000e-005			2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.4374	0.4374	8.0000e-005	0.0000	0.4390
Waste							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.7000e-004	3.9700e-003	3.7500e-003	1.0000e-005	0.0000	2.7000e-004	2.7000e-004	0.0000	2.7000e-004	2.7000e-004	0.0000	0.4374	0.4374	8.0000e-005	0.0000	0.4391

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000			0.0000	0.0000		0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005	
Energy	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Offroad	9.7000e-004	3.9700e-003	3.7400e-003	1.0000e-005			2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.4374	0.4374	8.0000e-005	0.0000	0.4390	
Waste							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Water							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>	<b>9.7000e-004</b>	<b>3.9700e-003</b>	<b>3.7500e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.4374</b>	<b>0.4374</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.4391</b>	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	100.00	100.00	99.73	100.00	0.00	100.00	100.00	0.00	100.00	100.00	0.00	99.99	99.99	100.00	0.00	99.99

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days Week	Phase Description
1	Hut Site Preparation	Site Preparation	1/5/2015	1/5/2015	5	1	
2	Hut Fiber Cable Prep	Building Construction	1/6/2015	3/29/2015	5	59	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hut Site Preparation	Cranes	0	0.00	226	0.29
Hut Fiber Cable Prep	Cranes	0	0.00	226	0.29

## Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Hut Site Preparation	0	12.00	0.00	2.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hut Fiber Cable Prep	0	12.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

## **3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

## **3.2 Hut Site Preparation - 2015**

### Unmitigated Construction On-Site

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

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	2.0000e-005	3.5000e-004	2.5000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0693	0.0693	0.0000	0.0000	0.0693	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.0000e-005	4.0000e-005	3.4000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0499	0.0499	0.0000	0.0000	0.0499	
Total	4.0000e-005	3.9000e-004	5.9000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1192	0.1192	0.0000	0.0000	0.1192	

## **Mitigated Construction On-Site**

## **Mitigated Construction Off-Site**

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

Hauling	2.0000e-005	3.5000e-004	2.5000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0693	0.0693	0.0000	0.0000	0.0693
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	4.0000e-005	3.4000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0499	0.0499	0.0000	0.0000	0.0499
Total	4.0000e-005	3.9000e-004	5.9000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1192	0.1192	0.0000	0.0000	0.1192

### 3.3 Hut Fiber Cable Prep - 2015

#### Unmitigated Construction On-Site

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

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4700e-003	2.0700e-003	0.0201	4.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.9416	2.9416	1.7000e-004	0.0000	2.9451
Total	1.4700e-003	2.0700e-003	0.0201	4.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.9416	2.9416	1.7000e-004	0.0000	2.9451

## Mitigated Construction On-Site

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

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4700e-003	2.0700e-003	0.0201	4.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.9416	2.9416	1.7000e-004	0.0000	2.9451
Total	1.4700e-003	2.0700e-003	0.0201	4.0000e-005	3.2200e-003	3.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.9416	2.9416	1.7000e-004	0.0000	2.9451

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

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

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT		Annual VMT	
General Light Industry	0.00	0.00	0.00				
Total	0.00	0.00	0.00				

## 4.3 Trip Type Information

Land Use	Miles			Trip %				Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	92	5	3	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.552333	0.058138	0.185246	0.125281	0.029961	0.004506	0.012317	0.020953	0.001764	0.001280	0.005920	0.000536	0.001765

## 5.0 Energy Detail

### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

## **5.2 Energy by Land Use - NaturalGas**

## Unmitigated

### **Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					

General Light Industry	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

## 5.3 Energy by Land Use - Electricity

### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr				
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr				
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

## 6.0 Area Detail

---

## **6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	0.0000	3.0000e-005	
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	0.0000	3.0000e-005	

## 6.2 Area by SubCategory

## Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0000				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	

## Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

SubCategory	tons/yr										MT/yr						
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Architectural Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005	0.0000	3.0000e-005
Total	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005	0.0000	3.0000e-005

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

## Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### **Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## **9.0 Operational Offroad**

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Generator Sets	1	0.50	52	40	0.74	CNG

### **UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	tons/yr										MT/yr						
Generator Sets	9.7000e-004	3.9700e-003	3.7400e-003	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.4374	0.4374	8.0000e-005	0.0000	0.4390	
<b>Total</b>	<b>9.7000e-004</b>	<b>3.9700e-003</b>	<b>3.7400e-003</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.4374</b>	<b>0.4374</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.4390</b>	

## 10.0 Vegetation

---

*Attachment B-3*  
*CalEEMod – Inputs*

Construction Phase	Length (ft)	Width (ft)	sq ft	acre
Horizontal Directional Drilling	5280000	0.5	2640000	60.60606061
Trenching	873840	1.1666666667	1019480	23.4040404
Rock Sawing	873840	1.1666666667	1019480	23.4040404
Vault	2.6666666667	6.5	123066.6667	2.825221916

*Attachment B-4*  
*EMFAC Emission Factors*

	A	B	D	E	H	I	J	S	AB	AF	AJ	AN	AR	AV	AY	BC	BF	BJ	BK	BL	BM	BN	BO
1	EMFAC2011 Emissions Inventory																						
2	Region Type: Air District																						
3	Region: Bay Area AQMD																						
4	Calendar Year: 2015																						
5	Season: Annual																						
6	Vehicle Classification: EMFAC2011 Categories																						
62	Area	CalYr	Veh	Fuel	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	ROG_TOTAL lb/mi	TOG_TOTAL lb/mi	CO_TOTEX lb/mi	NOx_TOTEX lb/mi	CO2_TOTEX lb/mi	TOTEX(Pavley I+ lb/mi)	PM10_TOTEX lb/mi	PM10_TOTAL lb/mi	PM2_5_TOTEX lb/mi	PM2_5_TOTAL lb/mi	SOx_TOTEX lb/mi	Fuel_GAS gal/mi	Fuel_DSL gal/mi	CH4 lb/mi	N2O lb/mi	CO2e lb/mi
63																							
64	Bay Area	2015	LDA	GAS	2831527.514	98936833.57	17843073.24	0.000407999	0.000445402	0.003916563	0.000342655	0.776973147	0.664640269	5.46089E-06	0.000104118	4.98445E-06	4.41165E-05	7.82316E-06	0.0417227	0	0.000192	6.8E-05	0.689753
65	Bay Area	2015	LDA	DSL	13294.61929	437928.6502	79030.17671	9.4929E-05	0.00010807	0.000517961	0.001306194	0.775281002	0.659226851	6.94028E-05	0.00016806	6.38506E-05	0.000102983	7.40131E-06	0	0.034887647	0.000186	6.69E-05	0.683873
66	Bay Area	2015	LDT1	GAS	323244.3584	11401684.39	1967641.526	0.001059021	0.001138189	0.009421976	0.000868484	0.892988044	0.790323848	1.17044E-05	0.000110361	1.07006E-05	4.98327E-05	9.07577E-06	0.04840311	0	1.18E-06	2.35E-06	0.791078
67	Bay Area	2015	LDT1	DSL	458.142795	15280.9678	2445.612865	0.000171522	0.000195267	0.000778026	0.00161259	0.792289505	0.675042594	0.000142961	0.000241618	0.000170656	7.56941E-06	0	0.03568003	0.00022	0.00102	0.711169	
68	Bay Area	2015	LDT2	GAS	852320.3686	31732283.69	5363375.959	0.000522639	0.000572288	0.005234129	0.000618629	1.054695355	0.949167962	5.32952E-06	0.000103986	4.88258E-06	4.40146E-05	1.06174E-05	0.05662476	0	2.2E-06	3.38E-06	0.950262
69	Bay Area	2015	LDT2	DSL	421.5543052	15394.83366	2451.575353	0.000116531	0.000132663	0.00060465	0.001521677	0.781307142	0.680947857	9.25358E-05	0.000191193	8.51329E-05	0.000124265	7.45884E-06	0	0.035158823	0.00022	0.00102	0.717075
70	Bay Area	2015	LHD1	GAS	109992.0769	4357357.601	1638718.046	0.001749207	0.001867185	0.013161042	0.002676376	2.197274768	2.142342899	8.88298E-06	0.00010754	8.20823E-06	4.73403E-05	2.21742E-05	0.11825983	0	2.2E-06	3.38E-06	2.143437
71	Bay Area	2015	LHD1	DSL	47244.53392	1875882.143	594276.8042	0.000536062	0.000610271	0.002707438	0.009559856	1.165456151	1.136319748	0.000121833	0.00031681	0.000112086	0.000190924	1.11262E-05	0	0.052445529	0.00022	0.00102	0.172447
72	Bay Area	2015	LHD2	GAS	9718.145406	382457.057	144785.8818	0.001716787	0.00182859	0.0127943	0.002567186	2.198720617	2.143752602	8.56974E-06	0.000107227	7.78568E-06	4.69177E-05	2.21804E-05	0.11829322	0	2.2E-06	3.38E-06	2.144847
73	Bay Area	2015	LHD2	DSL	12946.69917	511011.6177	162853.1818	0.00047897	0.000545275	0.002528429	0.008677678	1.164360578	1.135251563	0.000113071	0.000336135	0.000104025	0.0001949	1.11157E-05	0	0.052396228	0.00022	0.00102	0.171378
74	Bay Area	2015	MCY	GAS	137069.7257	1199080.542	274112.0462	0.009046494	0.009708499	0.068830549	0.002953223	0.363321553	0.354238514	2.67473E-06	0.000101328	2.13189E-06	4.12624E-05	6.71932E-06	0.0263775	0	2.2E-06	3.38E-06	0.355333
75	Bay Area	2015	MDV	GAS	608602.7522	22555749.84	3791851.119	0.000742886	0.00082696	0.008065515	0.001051667	1.335858312	1.233655916	6.30095E-06	0.000104958	5.80213E-06	4.49342E-05	1.3474E-05	0.07185996	0	0.000173	1.72E-05	0.1242623
76	Bay Area	2015	MDV	DSL	729.9229706	27398.71536	4269.141055	8.63372E-05	9.82891E-05	0.000454528	0.001030967	0.7780053	0.705184211	7.02513E-05	0.000168908	6.46312E-05	0.000103763	7.42732E-06	0	0.035010239	0.000474	0.000209	0.779837
77	Bay Area	2015	MH	GAS	20726.28442	260058.835	2073.457509	0.000623626	0.000721632	0.016096552	0.002267341	1.494211351	1.456856067	6.83464E-06	0.000105492	6.1474E-06	4.52795E-05	1.64268E-05	0.08099221	0	1.12E-05	1.06E-05	0.1460373
78	Bay Area	2015	MH	DSL	3457.25268	43101.3611	345.7252818	0.000516522	0.000588026	0.001612249	0.017272342	2.639568948	2.573579724	0.000463645	0.000777451	0.000426553	0.000556317	2.5199E-05	0	0.118780607	0.000474	0.000209	0.248232
79	Bay Area	2015	Motor Coa	DSL	787.0900769	111788.3688	0	0.000649006	0.000738844	0.003027996	0.01993681	4.044661972	3.943545423	0.000224742	0.000538548	0.000206762	0.000336527	3.8588E-05	0	0.182009789	1.12E-05	1.06E-05	0.347062
80	Bay Area	2015	OBUS	GAS	3031.458267	153132.625	138441.4294	0.002778636	0.002984649	0.036904632	0.006628734	1.585445999	1.545809849	3.96164E-06	0.000102619	3.57844E-06	4.27105E-05	1.6472E-05	0.08786867	0	0.000474	0.000209	0.1620462
81	Bay Area	2015	PTO	DSL	0	92932.46952	0	0.000950821	0.001082437	0.004106614	0.023941933	4.741678237											

*Attachment B-5*  
*Utility Truck Emissions*

## EMFAC

Fiber Hut																
Utility Trucks	Hours	MPH	Avg Crew	Vendor Trip Milage	Vendor Trips /day	Days /yr	VMT									
ROG	3	1	10	1	7.3	2	60	2676								
	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	1.091806541	0.916946	10.48072	0.020935	5.41E-01	0.278619159	0.819822248	1.33E-01	0.118055769	0.250896527			1778.577	0.512748	0.182041	1845.778

  

Directional Drilling																
Utility Trucks	Hours	MPH	Avg Crew	Vendor Trip Milage	Vendor Trips /day	Days /yr	VMT									
ROG	3	1	10	19.55556	7.3	2	260	11596								
	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	4.731161676	3.973432	45.41647	0.090717	2.35E+00	1.20734969	3.552563073	5.76E-01	0.511574998	1.087218283			7707.169	2.221909	0.788844	7998.37

  

Trenching																
Utility Trucks	Hours	MPH	Avg Crew	Vendor Trip Milage	Vendor Trips /day	Days /yr	VMT									
ROG	3	1	10	3.1776	7.3	2	260	11596								
	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	4.731161676	3.973432	45.41647	0.090717	2.35E+00	1.20734969	3.552563073	5.76E-01	0.511574998	1.087218283			7707.169	2.221909	0.788844	7998.37

  

Rock sawing																
Utility Trucks	Hours	MPH	Avg Crew	Vendor Trip Milage	Vendor Trips /day	Days /yr	VMT									
ROG	3	1	10	3.1776	7.3	2	260	11596								
	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	4.731161676	3.973432	45.41647	0.090717	2.35E+00	1.20734969	3.552563073	5.76E-01	0.511574998	1.087218283			7707.169	2.221909	0.788844	7998.37

  

Vault																
Utility Trucks	Hours	MPH	Avg Crew	Vendor Trip Milage	Vendor Trips /day	Days /yr	VMT									
ROG	2	1	10	14.2	7.3	2	260	8996								
	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	3.670363094	3.082528	35.2334	0.070377	1.82E+00	0.936643481	2.756024267	4.47E-01	0.396872084	0.843447368			5979.104	1.723723	0.611973	6205.014

  

Cabinet																
Utility Trucks	Hours	MPH	Avg Crew	Vendor Trip Milage	Vendor Trips /day	Days /yr	VMT									
ROG	2	1	10	0.5	7.3	2	50	1730								
	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	0.705839057	0.592794	6.775655	0.013534	3.50E-01	0.180123746	0.530004667	8.59E-02	0.076321555	0.162201417			1149.828	0.331485	0.117687	1193.272

  

Aerial Installation																
Utility Trucks	Hours	MPH	Avg Crew	Vendor Trip Milage	Vendor Trips /day	Days /yr	VMT									
ROG	1	1	10	5.11104	7.3	2	260	6396								
	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	2.609564512	2.191624	25.05034	0.050037	1.29E+00	0.665937273	1.959485462	3.18E-01	0.282169169	0.599676452			4251.039	1.225537	0.435102	4411.657

*Attachment B-6*  
*Emissions Calculations for*  
*Construction and Operation*

Fugitive PM Emission Factor		
	PM10	PM 2.5
Particle Size Multiplier (k) - lb/VMT	0.0022	0.00054
Silt Loading (sL) - g/m <sup>2</sup>	0.03	0.03
Average Fleet Weight (W) - tons	2.2	2.2
Emission Factor	2.02E-04	4.96E-05

Pollutant	ROG	NOx	CO	SO2	Hut Emission											
					Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Unit					tons								metric tons			
Single Hut Operational	9.7000e-004	3.9700e-003	3.7400e-003	1.0000e-005	0	2.7000e-004	2.7000e-004	0	2.7000e-004	2.7000e-004	0.0000	0.4374	0.4374	8.0000e-005	0.0000	0.4390
Single Hut Site Prep	4.00e-05	3.90e-04	5.90e-04	0.00e+00	7.00e-05	1.00e-05	1.00e-05	0.0000	0.0000	0.0000	1.19e-01	1.19e-01	0.00e+00	0.00e+00	0.00e+00	1.19e-01
Single Hut Prep	0.00147	0.02027	0.0201	0.00004	0.00322	0.00000	0.00325	0.00086	0.00002	0.00088	0	2.9416	2.9416	0.00017	0	2.9451
Single Hut EMFAC Utility Trucks Emission	0.000545903	0.000458473	0.00524036	1.04674e-05	0.000270602	0.00013931	0.000409911	6.642e-05	5.90279e-05	0.00012548	0	0.8067491	0.00002326	8.25723e-05	0.0872307	
Single Hut Total	2.06e-03	2.92e-03	2.59e-02	5.05e-05	3.56e-03	1.79e-04	3.74e-03	9.36e-04	7.90e-05	1.03e-03	0.00e+00	3.06e+00	3.87e+00	4.03e-04	8.26e-05	3.90e-00
Annual Emission Avg crews	8.91e-03	1.26e-02	1.12e-01	2.19e-04	1.54e-02	7.77e-04	1.62e-02	4.06e-03	3.42e-04	4.44e-03	0.00e+00	1.33e-01	1.68e-01	1.74e-03	3.58e-04	1.69e-01
Annual Emission Peak crews	2.06e-02	2.92e-02	2.59e-01	5.05e-04	3.56e-02	1.79e-03	3.74e-02	9.36e-03	7.90e-04	1.03e-02	0.00e+00	3.06e+01	3.87e+01	4.03e-03	8.26e-04	3.90e-01
Unit												lbs				
Daily Emission Avg crews	6.85e-02	9.73e-02	8.64e-01	1.68e-01	1.19e-01	5.98e-03	1.25e-01	3.12e-02	2.63e-03	3.42e-02	0.00e+00	1.12e+02	1.42e+02	1.48e-02	3.03e-03	1.43e+02
Daily Emission Peak crews	1.71e-01	2.43e-01	2.16e+00	4.21e-03	2.97e-01	1.49e-02	3.12e-01	7.80e-02	6.59e-03	8.55e-02	0.00e+00	2.81e+02	3.55e+02	3.70e-02	7.59e-03	3.58e+02

Phase	Pollutant	ROG	NOx	CO	SO2	Construction Emission										
						Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O
Unit					tons									metric tons		
On-site construction emission	3.6000e-003	0.0787	0.1360	1.8000e-004	0.0112	2.9000e-004	0.0115	1.2100e-003	2.9000e-004	1.5000e-003	0.0000	17.1627	17.1627	5.1200e-003	0.0000	17.2703
offsite construction emission	0.0145	0.0734	0.1785	3.2000e-004	0.0201	1.1700e-003	0.0213	5.4100e-003	1.0800e-003	6.4900e-003	0.0000	27.1176	27.1176	9.6000e-004	0.0000	27.1378
EMFAC Utility Trucks Emission	0.000	0.00	0.00	0.00	0.00	0.0000	0.0000	0.00	0.00	0.0000	0.0000	0.00	0.00	0.00	0.00	0.363
Total	0.02047	0.15409	0.33721	0.000955	0.03247	0.0206	0.03458	0.00691	0.01613	0.00853	0.00000	44.28030	47.7621	0.00709	0.00036	48.03610
Annual Emission Avg crews	0.07	0.49	1.07	0.00	0.10	0.01	0.11	0.02	0.01	0.03	0.00	140.71	151.81	0.02	0.00	152.64
Annual Emission Peak crews	0.10	0.77	1.69	0.00	0.16	0.01	0.17	0.03	0.01	0.04	0.00	221.40	238.88	0.04	0.00	240.18
Unit												lbs				
Daily Emission Avg crews	0.942661459	7.484145451	15.9297545	0.02551783	1.558798731	0.086129455	1.646883632	0.33066159	0.073226264	0.403887849	0	2386.1662	2480.3596	0.3547927	0.009640882	2490.8054
Daily Emission Peak crews	1.483291571	11.77641215	25.067013	0.04026104	2.452792565	0.13552595	2.591395444	0.52030083	0.15222596	0.635523429	0	3754.6673	3902.8821	0.5582715	0.015170068	3919.3187

Phase	Pollutant	ROG	NOx	CO	SO2	Directional Drilling										
						Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O
Unit					tons									metric tons		
On-site construction emission	5.5800e-003	0.1236	0.1752	2.3000e-004	0.0289	4.2400e-003	0.032	3.1200e-003	4.2400e-003	7.3600e-003	0.0000	21.5414	21.5414	6.4300e-003	0.0000	21.6765
offsite construction emission	7.5100e-003	0.0106	0.1031	1.9000e-004	0.0165	1.4000e-003	0.0167	4.3900e-003	1.3000e-003	4.5200e-003	0.0000	16.0655	15.0655	8.5000e-004	0.0000	15.0834
EMFAC Utility Trucks Emission	0.000	0.00	0.00	0.00	0.00	0.0000	0.0000	0.00	0.00	0.0000	0.0000	0.00	0.00	0.00	0.00	0.363
Total	0.01546	0.13619	0.30101	0.00047	0.04657	0.00498	0.05168	0.00780	0.00463	0.01242	0.00000	36.60960	40.10281	0.00829	0.00036	40.38790
Annual Emission Avg crews	0.30	2.66	5.89	0.01	0.91	0.10	1.01	0.15	0.09	0.24	0.00	715.87	784.23	0.16	0.01	789.81
Annual Emission Peak crews	0.31	2.72	6.02	0.01	0.93	0.10	1.03	0.16	0.09	0.25	0.00	732.34	802.06	0.17	0.01	807.76
Unit												lbs				
Daily Emission Avg crews	0.724942075	20.496206863	45.2798711	0.070002676	7.007593287	0.749581002	7.773526111	1.17300565	0.695844957	1.68685006	0	6670.0745	6649.759	1.3742713	0.059331822	6697.0314
Daily Emission Peak crews	2.377781657	20.95180246	46.3085951	0.071593646	1.761506141	0.766719207	7.950197159	1.19966487	0.71165915	1.913324463	0	6208.0308	6800.8899	1.4055048	0.060680272	6849.2367

Phase	Pollutant	ROG	NOx	CO	SO2	Cabinet Installation										
						Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O
Unit					tons									metric tons		
On-site construction emission	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
offsite construction emission	1.2400e-003	1.7500e-003	0.0171	3.0000e-005	2.7300e-003	2.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	4.8092	4.8092	1.4400e-003	0.0000	4.8393
EMFAC Utility Trucks Emission	0.00035292	0.000296397	0.00338783	6.76704e-005	0.00017494	9.06195e-005	0.00026502	4.294e-005	3.81608e-005	8.11007e-005	0	0	0.5215531	0.00015026	5.3820e-005	0.541259
Total	0.00153	0.02029	0.0203	0.0004	0.0240	0.0001	0.0002	0.0001	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.003716
Annual Emission Avg crews	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Emission Peak crews	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unit												lbs				
Daily Emission Avg crews	0.031858291	0.040923838	0.040976555	0.000735431	0.050898909	0.0023201237	0.060200047	0.0154588	0.001163216	0.016622014	0	54.99307	66.47314	0.0064013	0.00116871	66.957904
Daily Emission Peak crews	0.159291953	0.204639691	0.204782273	0.003676704	0.209404046	0.011006187	0.301500233	0.07729399	0.005816078	0.083110071	0	274.79519	332.28657	0.0320066	0.005884354	334.78947

Phase	Pollutant	ROG	NOx	CO	SO2	Operational									
Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e				
Unit					tons							metric tons			





<tbl\_r cells="16" ix="5