

**Pipeline Safety & Reliability Project**  
**San Diego County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

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Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume all worker trips are paved, assume average vendor and hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	49.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00





tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/5/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	2/5/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	3/28/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	6/30/2018	4/22/2018
tblConstructionPhase	PhaseEndDate	2/4/2019	4/19/2018
tblConstructionPhase	PhaseEndDate	10/20/2018	6/1/2018
tblConstructionPhase	PhaseEndDate	2/25/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	8/13/2018	7/14/2018
tblConstructionPhase	PhaseEndDate	12/23/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	3/18/2019	4/23/2018
tblConstructionPhase	PhaseEndDate	9/19/2018	9/14/2018
tblConstructionPhase	PhaseStartDate	7/15/2018	10/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	11/26/2018
tblConstructionPhase	PhaseStartDate	4/1/2018	1/4/2018
tblConstructionPhase	PhaseStartDate	4/24/2018	2/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	3/16/2018
tblConstructionPhase	PhaseStartDate	9/15/2018	4/27/2018
tblConstructionPhase	PhaseStartDate	4/23/2018	2/25/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	5/4/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	1/9/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	2/6/2018
tblConstructionPhase	PhaseStartDate	4/20/2018	4/16/2018
tblGrading	AcresOfGrading	612.00	30.10
tblGrading	MaterialExported	0.00	362,326.00



tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	27.00
tblOffRoadEquipment	PhaseName		Grind and Cap



tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	6.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	240.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00



tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	83,912.00	59,003.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,603.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00

tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorVehicleClass		MHDT
tblTripsAndVMT	VendorVehicleClass		MHDT
tblTripsAndVMT	VendorVehicleClass		MHDT
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tblTripsAndVMT	VendorVehicleClass		MHDT
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tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00

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tblTripsAndVMT	WorkerTripNumber	18.00	1.00
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tblTripsAndVMT	WorkerTripNumber	0.00	600.00
tblTripsAndVMT	WorkerTripNumber	530.00	68.00
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tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	40.00	4.00
tblTripsAndVMT	WorkerTripNumber	60.00	3.00
tblTripsAndVMT	WorkerTripNumber	0.00	1.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
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tblTripsAndVMT	WorkerVehicleClass		LD_Mix
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tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
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tblVehicleEF	HHD	0.01	0.01

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tblVehicleEF	HHD	67.15	69.82
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tblVehicleEF	HHD	1,584.01	1,611.58
tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.21	4.39
tblVehicleEF	HHD	4.39	4.83
tblVehicleEF	HHD	4.37	4.50
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.0040e-003	2.5020e-003
tblVehicleEF	HHD	9.5760e-003	9.7910e-003
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	1.7890e-003	1.9690e-003
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tblVehicleEF	HHD	1.6670e-003	1.8090e-003
tblVehicleEF	HHD	0.23	0.23
tblVehicleEF	HHD	0.55	0.61
tblVehicleEF	HHD	2.41	2.64
tblVehicleEF	HHD	5.6000e-003	5.6010e-003
tblVehicleEF	HHD	0.02	0.02
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tblVehicleEF	HHD	1.7890e-003	1.9690e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.62	0.60
tblVehicleEF	HHD	1.6670e-003	1.8090e-003
tblVehicleEF	HHD	0.26	0.27
tblVehicleEF	HHD	0.55	0.61
tblVehicleEF	HHD	2.57	2.82
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.22	2.16
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tblVehicleEF	HHD	1,584.01	1,611.58
tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.34	4.54
tblVehicleEF	HHD	4.23	4.65
tblVehicleEF	HHD	4.16	4.28
tblVehicleEF	HHD	8.7740e-003	8.9720e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.0040e-003	2.5020e-003
tblVehicleEF	HHD	8.0730e-003	8.2540e-003
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	2.7920e-003	3.0800e-003

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tblVehicleEF	HHD	3.2130e-003	3.5150e-003
tblVehicleEF	HHD	0.23	0.23
tblVehicleEF	HHD	0.54	0.60
tblVehicleEF	HHD	1.98	2.16
tblVehicleEF	HHD	5.9330e-003	5.9340e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.4290e-003	1.4830e-003
tblVehicleEF	HHD	2.7920e-003	3.0800e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.58	0.57
tblVehicleEF	HHD	3.2130e-003	3.5150e-003
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tblVehicleEF	HHD	0.54	0.60
tblVehicleEF	HHD	2.11	2.31
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.01
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tblVehicleEF	HHD	1,584.01	1,611.58
tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.02	4.20
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.07	0.07
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	1.6460e-003	1.8240e-003
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tblVehicleEF	HHD	1.4520e-003	1.5750e-003
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tblVehicleEF	HHD	5.1410e-003	5.1420e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.8100e-003	1.8760e-003
tblVehicleEF	HHD	1.6460e-003	1.8240e-003
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.67	0.65
tblVehicleEF	HHD	1.4520e-003	1.5750e-003
tblVehicleEF	HHD	0.26	0.27
tblVehicleEF	HHD	0.60	0.66
tblVehicleEF	HHD	2.78	3.05
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tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.87	0.94

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tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	7.7200e-004	7.7400e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.97	1.05
tblVehicleEF	LDA	1.58	1.71
tblVehicleEF	LDA	269.94	281.19

tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
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tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.13	0.15
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tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.14	0.16
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.85	0.93
tblVehicleEF	LDA	2.32	2.51
tblVehicleEF	LDA	252.81	263.35
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51

tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	7.7500e-004	7.7800e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.19	0.20
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.68	1.82
tblVehicleEF	LDT1	4.00	4.33
tblVehicleEF	LDT1	309.85	320.90
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.23	0.25

tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	4.1290e-003	4.1270e-003
tblVehicleEF	LDT1	9.1600e-004	9.2000e-004
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.85	2.00
tblVehicleEF	LDT1	3.01	3.26
tblVehicleEF	LDT1	326.49	338.09
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003

tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	4.3540e-003	4.3530e-003
tblVehicleEF	LDT1	8.9800e-004	9.0100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.26	0.28
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.65	1.79
tblVehicleEF	LDT1	4.37	4.74
tblVehicleEF	LDT1	306.84	317.78
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003

tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	4.0880e-003	4.0870e-003
tblVehicleEF	LDT1	9.2200e-004	9.2700e-004
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.33	0.36
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.01	1.10
tblVehicleEF	LDT2	2.42	2.66
tblVehicleEF	LDT2	378.64	391.32
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003

tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.8450e-003	4.8470e-003
tblVehicleEF	LDT2	1.0450e-003	1.0480e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.12	1.22
tblVehicleEF	LDT2	1.81	2.00
tblVehicleEF	LDT2	399.61	412.98
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.19	0.22
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	5.1160e-003	5.1180e-003
tblVehicleEF	LDT2	1.0340e-003	1.0370e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	0.99	1.08
tblVehicleEF	LDT2	2.65	2.92
tblVehicleEF	LDT2	374.85	387.40
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	4.7960e-003	4.7980e-003
tblVehicleEF	LDT2	1.0490e-003	1.0530e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.64	1.79
tblVehicleEF	LHD1	3.92	4.10
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.32	1.41
tblVehicleEF	LHD1	1.18	1.20
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05

tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.7800e-004	4.8000e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.38	0.40
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.67	1.82

tblVehicleEF	LHD1	3.06	3.21
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.26	1.35
tblVehicleEF	LHD1	1.13	1.15
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.31	0.32
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.6300e-004	4.6500e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.19	0.20
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.62	1.78
tblVehicleEF	LHD1	4.30	4.50
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.31	1.41
tblVehicleEF	LHD1	1.21	1.23
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.37	0.40
tblVehicleEF	LHD1	8.0860e-003	8.0890e-003
tblVehicleEF	LHD1	4.8400e-004	4.8700e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.15
tblVehicleEF	LHD2	1.93	2.06
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.92	2.06
tblVehicleEF	LHD2	0.68	0.69

tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.18	0.19
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8300e-004	2.8400e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.07	1.16
tblVehicleEF	LHD2	1.52	1.62
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.85	1.98
tblVehicleEF	LHD2	0.65	0.66
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.7500e-004	2.7600e-004

tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.14
tblVehicleEF	LHD2	2.12	2.25
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.91	2.06
tblVehicleEF	LHD2	0.69	0.71
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.19	0.20
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8600e-004	2.8700e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	MCY	28.80	29.57
tblVehicleEF	MCY	10.23	10.18
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.24	1.25
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004

tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	2.97	3.00
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	2.2710e-003	2.2680e-003
tblVehicleEF	MCY	6.6000e-004	6.6500e-004
tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	3.24	3.27
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.28	2.29
tblVehicleEF	MCY	27.18	27.88
tblVehicleEF	MCY	8.78	8.76
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12

tblVehicleEF	MCY	2.88	2.90
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.82	1.83
tblVehicleEF	MCY	2.2430e-003	2.2380e-003
tblVehicleEF	MCY	6.2800e-004	6.3300e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	3.14	3.16
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.95	1.96
tblVehicleEF	MCY	29.90	30.70
tblVehicleEF	MCY	10.90	10.84
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.26	1.26
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.02	3.05
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.26	2.28

tblVehicleEF	MCY	2.2900e-003	2.2870e-003
tblVehicleEF	MCY	6.7500e-004	6.8000e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.29	3.32
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.80	1.94
tblVehicleEF	MDV	4.47	4.76
tblVehicleEF	MDV	507.05	522.26
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.41	0.44
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.37	0.39
tblVehicleEF	MDV	6.1860e-003	6.1840e-003

tblVehicleEF	MDV	1.3510e-003	1.3540e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.99	2.13
tblVehicleEF	MDV	3.36	3.58
tblVehicleEF	MDV	534.71	550.71
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.30	0.32
tblVehicleEF	MDV	6.5270e-003	6.5240e-003
tblVehicleEF	MDV	1.3310e-003	1.3340e-003

tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.78	1.91
tblVehicleEF	MDV	4.89	5.20
tblVehicleEF	MDV	502.05	517.12
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	6.1240e-003	6.1230e-003
tblVehicleEF	MDV	1.3580e-003	1.3620e-003
tblVehicleEF	MDV	0.05	0.05

tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.42	0.45
tblVehicleEF	MH	2.54	3.13
tblVehicleEF	MH	7.17	7.80
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.78	0.82
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.87	0.94
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.40	0.44
tblVehicleEF	MH	7.5230e-003	7.5340e-003
tblVehicleEF	MH	4.4000e-004	4.5300e-004
tblVehicleEF	MH	0.87	0.94

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	2.60	3.20
tblVehicleEF	MH	5.48	5.94
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.38	1.47
tblVehicleEF	MH	0.74	0.78
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	1.20	1.30
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.12	0.13
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.34	0.37
tblVehicleEF	MH	7.5240e-003	7.5350e-003
tblVehicleEF	MH	4.1200e-004	4.2100e-004
tblVehicleEF	MH	1.20	1.30

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.36	0.39
tblVehicleEF	MH	2.51	3.10
tblVehicleEF	MH	7.93	8.64
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.79	0.84
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.92	0.99
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	7.5230e-003	7.5330e-003
tblVehicleEF	MH	4.5300e-004	4.6700e-004
tblVehicleEF	MH	0.92	0.99

tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.46	0.51
tblVehicleEF	MHD	7.5130e-003	7.5000e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.87	1.86
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	18.09	19.57
tblVehicleEF	MHD	582.55	590.85
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.15	5.46
tblVehicleEF	MHD	2.29	2.63
tblVehicleEF	MHD	1.90	2.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.2790e-003	2.4930e-003

tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.16	0.16
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.07	1.18
tblVehicleEF	MHD	6.0410e-003	6.0290e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.7600e-004	9.1300e-004
tblVehicleEF	MHD	2.2790e-003	2.4930e-003
tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.18	0.18
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.14	1.27
tblVehicleEF	MHD	7.0810e-003	7.0680e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.36	1.35
tblVehicleEF	MHD	0.90	1.02
tblVehicleEF	MHD	14.01	15.23
tblVehicleEF	MHD	617.16	625.96
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.32	5.63
tblVehicleEF	MHD	2.20	2.52
tblVehicleEF	MHD	1.80	1.92

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.91	1.00
tblVehicleEF	MHD	6.4000e-003	6.3870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.0700e-004	8.4000e-004
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.97	1.07
tblVehicleEF	MHD	8.1110e-003	8.0960e-003

tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	2.58	2.56
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	19.91	21.51
tblVehicleEF	MHD	534.76	542.38
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.92	5.21
tblVehicleEF	MHD	2.29	2.62
tblVehicleEF	MHD	1.94	2.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.14	1.27

tblVehicleEF	MHD	5.5450e-003	5.5340e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.0700e-004	9.4600e-004
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.20	0.20
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.22	1.35
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	2.55	2.48
tblVehicleEF	OBUS	1.49	1.65
tblVehicleEF	OBUS	11.39	12.02
tblVehicleEF	OBUS	545.88	554.85
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.14	5.30
tblVehicleEF	OBUS	2.96	3.28
tblVehicleEF	OBUS	1.61	1.69
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	9.3200e-003	9.4330e-003

tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.44	0.42
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.69	0.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.7700e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.50	0.48
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.74	0.78
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	1.85	1.80
tblVehicleEF	OBUS	1.52	1.68
tblVehicleEF	OBUS	8.89	9.38
tblVehicleEF	OBUS	578.31	587.81
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25

tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.30	5.47
tblVehicleEF	OBUS	2.83	3.13
tblVehicleEF	OBUS	1.53	1.61
tblVehicleEF	OBUS	8.5400e-003	8.6440e-003
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	7.8570e-003	7.9520e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.41	0.40
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.60	0.63
tblVehicleEF	OBUS	5.9970e-003	5.9980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.2300e-004	5.3300e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.45
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004

tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.64	0.67
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	3.51	3.41
tblVehicleEF	OBUS	1.48	1.64
tblVehicleEF	OBUS	12.52	13.20
tblVehicleEF	OBUS	501.09	509.32
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	4.91	5.06
tblVehicleEF	OBUS	2.95	3.27
tblVehicleEF	OBUS	1.64	1.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.46

tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.74	0.77
tblVehicleEF	OBUS	5.1960e-003	5.1970e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.8500e-004	5.9700e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.54	0.52
tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.79	0.83
tblVehicleEF	SBUS	4.3860e-003	4.3220e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.02	0.99
tblVehicleEF	SBUS	4.62	6.19
tblVehicleEF	SBUS	35.49	38.94
tblVehicleEF	SBUS	556.78	563.29
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.66	7.75
tblVehicleEF	SBUS	7.17	7.37
tblVehicleEF	SBUS	2.64	2.69
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.35	2.80
tblVehicleEF	SBUS	5.7740e-003	5.7480e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9360e-003	2.0510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.51	3.00
tblVehicleEF	SBUS	4.1340e-003	4.0730e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	0.74	0.72

tblVehicleEF	SBUS	4.64	6.04
tblVehicleEF	SBUS	29.55	32.78
tblVehicleEF	SBUS	589.86	596.75
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.91	8.00
tblVehicleEF	SBUS	6.88	7.07
tblVehicleEF	SBUS	2.47	2.52
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.41	0.47
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.06	2.43
tblVehicleEF	SBUS	6.1170e-003	6.0890e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	1.8340e-003	1.9430e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.20	2.60
tblVehicleEF	SBUS	4.7350e-003	4.6660e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.41	1.37
tblVehicleEF	SBUS	4.62	6.29
tblVehicleEF	SBUS	38.45	42.02
tblVehicleEF	SBUS	511.10	517.07
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.32	7.40
tblVehicleEF	SBUS	7.15	7.34
tblVehicleEF	SBUS	2.72	2.77
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.49	2.99
tblVehicleEF	SBUS	5.3000e-003	5.2760e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9870e-003	2.1050e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.44	0.52
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.66	3.20
tblVehicleEF	UBUS	3.05	3.27
tblVehicleEF	UBUS	5.69	5.79
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.19	11.63
tblVehicleEF	UBUS	0.89	0.88
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004

tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.52	0.53
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.5800e-004	3.6100e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.56	0.56
tblVehicleEF	UBUS	3.08	3.29
tblVehicleEF	UBUS	4.68	4.77
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	10.79	11.22
tblVehicleEF	UBUS	0.84	0.84
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003

tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.46	0.47
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.4100e-004	3.4400e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.50	0.50
tblVehicleEF	UBUS	3.04	3.26
tblVehicleEF	UBUS	6.13	6.23
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.14	11.58
tblVehicleEF	UBUS	0.91	0.90
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.59	0.61

tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.6600e-004	3.6900e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.66	0.69
tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.58	0.59

## 2.0 Emissions Summary

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**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	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.1301	1.3166	0.7329	2.4200e-003		0.0480	0.0480		0.0441	0.0441	0.0000	216.8719	216.8719	0.0686	0.0000	218.3124
<b>Total</b>	<b>0.1301</b>	<b>1.3166</b>	<b>0.7329</b>	<b>2.4200e-003</b>		<b>0.0480</b>	<b>0.0480</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>216.8719</b>	<b>216.8719</b>	<b>0.0686</b>	<b>0.0000</b>	<b>218.3124</b>

**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	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.1301	1.3166	0.7329	2.4200e-003		0.0480	0.0480		0.0441	0.0441	0.0000	216.8719	216.8719	0.0686	0.0000	218.3124
<b>Total</b>	<b>0.1301</b>	<b>1.3166</b>	<b>0.7329</b>	<b>2.4200e-003</b>		<b>0.0480</b>	<b>0.0480</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>216.8719</b>	<b>216.8719</b>	<b>0.0686</b>	<b>0.0000</b>	<b>218.3124</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
<b>Percent Reduction</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mobilize	Building Construction	1/4/2018	3/31/2018	6	75	
2	Worker Trips	Building Construction	1/4/2018	12/31/2018	6	310	
3	Pipe Installation	Site Preparation	1/9/2018	12/31/2018	6	306	
4	Augur Bore 1	Trenching	2/6/2018	4/23/2018	6	66	
5	Civil Work 1	Building Construction	2/13/2018	4/22/2018	6	59	
6	Grind and Cap	Paving	2/25/2018	12/31/2018	6	265	
7	Demobilize 1	Building Construction	3/16/2018	4/19/2018	6	30	
8	HDD	Trenching	4/16/2018	9/14/2018	6	131	
9	Civil Work 2	Building Construction	4/27/2018	6/1/2018	6	31	
10	Augur Bore 2	Trenching	5/4/2018	7/14/2018	6	62	
11	Hydrotest	Building Construction	10/10/2018	12/31/2018	6	71	
12	Demobilize 2	Building Construction	11/26/2018	12/31/2018	6	31	

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
Mobilize	Cranes	0	4.00	226	0.29
Mobilize	Forklifts	0	6.00	89	0.20
Mobilize	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Worker Trips	Cranes	0	4.00	226	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Air Compressors	28	6.00	78	0.48
Pipe Installation	Concrete/Industrial Saws	8	5.00	81	0.73
Pipe Installation	Cranes	5	7.00	226	0.29
Pipe Installation	Crawler Tractors	3	8.00	208	0.43
Augur Bore 1	Air Compressors	3	5.00	78	0.48
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Pipe Installation	Excavators	18	7.00	162	0.38
Pipe Installation	Excavators	10	7.00	162	0.38
Hydrotest	Excavators	2	6.00	162	0.38
Pipe Installation	Off-Highway Trucks	0	6.00	174	0.41
Pipe Installation	Off-Highway Trucks	5	8.00	400	0.38
Pipe Installation	Off-Highway Trucks	5	6.00	400	0.38
Pipe Installation	Graders	1	8.00	174	0.41
Pipe Installation	Other General Industrial Equipment	5	6.00	87	0.34
Pipe Installation	Rough Terrain Forklifts	5	6.00	100	0.40
Pipe Installation	Rubber Tired Loaders	3	8.00	199	0.36
Pipe Installation	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Pipe Installation	Welders	40	7.00	46	0.45
Augur Bore 1	Bore/Drill Rigs	3	5.00	205	0.50
Augur Bore 1	Cranes	3	6.00	226	0.29
Augur Bore 1	Cranes	3	6.00	226	0.29
Augur Bore 1	Off-Highway Trucks	3	5.00	400	0.38
Augur Bore 1	Welders	6	6.00	46	0.45

Civil Work 1	Air Compressors	4	5.00	78	0.48
Civil Work 1	Cranes	0	4.00	226	0.29
Civil Work 1	Forklifts	0	6.00	89	0.20
Civil Work 1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Civil Work 1	Tractors/Loaders/Backhoes	0	5.00	97	0.37
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	7.00	125	0.42
Grind and Cap	Paving Equipment	4	5.00	130	0.36
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Demobilize 1	Cranes	0	4.00	226	0.29
Demobilize 1	Cranes	0	12.00	226	0.29
Demobilize 1	Forklifts	0	6.00	89	0.20
Demobilize 1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
HDD	Bore/Drill Rigs	3	7.00	205	0.50
HDD	Cranes	3	6.00	226	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	171	0.42
HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40
Civil Work 2	Air Compressors	1	6.00	78	0.48
Civil Work 2	Cranes	0	4.00	226	0.29
Civil Work 2	Forklifts	0	6.00	89	0.20
Civil Work 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Civil Work 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Augur Bore 2	Bore/Drill Rigs	1	6.00	205	0.50
Augur Bore 2	Cranes	1	7.00	226	0.29
Augur Bore 2	Cranes	1	7.00	226	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	400	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hydrotest	Welders	4	7.00	46	0.45
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Cranes	0	10.00	226	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Air Compressors	10	6.00	78	0.48
Pipe Installation	Other Material Handling Equipment	1	1.00	75	0.40
Pipe Installation	Excavators	5	6.00	162	0.38
Pipe Installation	Excavators	10	6.00	162	0.38
Pipe Installation	Generator Sets	10	8.00	84	0.74
Pipe Installation	Bore/Drill Rigs	5	7.00	205	0.50
Pipe Installation	Rollers	4	6.00	80	0.38

**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
Mobilize	0	0.00	15.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	1.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Hydrotest	12	2.00	6.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	30.00	30.00	LD_Mix	MHDT	HHDT
Pipe Installation	212	68.00	121.00	59,003.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 1	21	3.00	9.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 1	4	4.00	4.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	2,603.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 1	0	0.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	3.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 2	1	1.00	1.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Mobilize - 2018**

**Unmitigated Construction On-Site**

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

**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	0.0109	0.1398	0.0768	5.4000e-004	0.3155	3.1800e-003	0.3187	0.0356	2.9200e-003	0.0385	0.0000	47.5008	47.5008	3.0000e-004	0.0000	47.5071
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0109</b>	<b>0.1398</b>	<b>0.0768</b>	<b>5.4000e-004</b>	<b>0.3155</b>	<b>3.1800e-003</b>	<b>0.3187</b>	<b>0.0356</b>	<b>2.9200e-003</b>	<b>0.0385</b>	<b>0.0000</b>	<b>47.5008</b>	<b>47.5008</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>47.5071</b>

### 3.2 Mobilize - 2018

#### 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
<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>	<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 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	0.0109	0.1398	0.0768	5.4000e-004	0.1019	3.1800e-003	0.1051	0.0142	2.9200e-003	0.0171	0.0000	47.5008	47.5008	3.0000e-004	0.0000	47.5071
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0109</b>	<b>0.1398</b>	<b>0.0768</b>	<b>5.4000e-004</b>	<b>0.1019</b>	<b>3.1800e-003</b>	<b>0.1051</b>	<b>0.0142</b>	<b>2.9200e-003</b>	<b>0.0171</b>	<b>0.0000</b>	<b>47.5008</b>	<b>47.5008</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>47.5071</b>

### 3.3 Worker Trips - 2018

#### Unmitigated Construction On-Site

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

#### 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	0.0580	0.7094	0.4252	2.6800e-003	1.5649	0.0158	1.5808	0.1763	0.0146	0.1909	0.0000	236.9949	236.9949	1.4900e-003	0.0000	237.0262
Worker	0.3870	0.8972	7.9984	0.0250	2.0700	0.0138	2.0838	0.5498	0.0128	0.5626	0.0000	1,754.0413	1,754.0413	0.0833	0.0000	1,755.7901
<b>Total</b>	<b>0.4449</b>	<b>1.6066</b>	<b>8.4236</b>	<b>0.0277</b>	<b>3.6349</b>	<b>0.0296</b>	<b>3.6646</b>	<b>0.7262</b>	<b>0.0273</b>	<b>0.7535</b>	<b>0.0000</b>	<b>1,991.0362</b>	<b>1,991.0362</b>	<b>0.0848</b>	<b>0.0000</b>	<b>1,992.8164</b>

### 3.3 Worker Trips - 2018

#### 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
<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>	<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 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	0.0580	0.7094	0.4252	2.6800e-003	0.5054	0.0158	0.5212	0.0705	0.0146	0.0851	0.0000	236.9949	236.9949	1.4900e-003	0.0000	237.0262
Worker	0.3870	0.8972	7.9984	0.0250	2.0700	0.0138	2.0838	0.5498	0.0128	0.5626	0.0000	1,754.0413	1,754.0413	0.0833	0.0000	1,755.7901
<b>Total</b>	<b>0.4449</b>	<b>1.6066</b>	<b>8.4236</b>	<b>0.0277</b>	<b>2.5754</b>	<b>0.0296</b>	<b>2.6050</b>	<b>0.6204</b>	<b>0.0273</b>	<b>0.6477</b>	<b>0.0000</b>	<b>1,991.0362</b>	<b>1,991.0362</b>	<b>0.0848</b>	<b>0.0000</b>	<b>1,992.8164</b>

### 3.4 Pipe Installation - 2018

#### 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					0.0631	0.0000	0.0631	8.8700e-003	0.0000	8.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	10.4187	85.9903	70.3714	0.1246		4.8166	4.8166		4.5984	4.5984	0.0000	10,962.6757	10,962.6757	2.6683	0.0000	11,018.7092
<b>Total</b>	<b>10.4187</b>	<b>85.9903</b>	<b>70.3714</b>	<b>0.1246</b>	<b>0.0631</b>	<b>4.8166</b>	<b>4.8797</b>	<b>8.8700e-003</b>	<b>4.5984</b>	<b>4.6072</b>	<b>0.0000</b>	<b>10,962.6757</b>	<b>10,962.6757</b>	<b>2.6683</b>	<b>0.0000</b>	<b>11,018.7092</b>

#### 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	0.8633	13.1762	8.4161	0.0434	16.4633	0.1948	16.6581	1.8173	0.1792	1.9965	0.0000	3,848.5991	3,848.5991	0.0261	0.0000	3,849.1479
Vendor	0.3571	4.6021	2.5286	0.0177	10.3840	0.1046	10.4885	1.1699	0.0962	1.2661	0.0000	1,563.3459	1,563.3459	9.8100e-003	0.0000	1,563.5520
Worker	0.0505	0.1323	1.1700	3.7200e-003	0.3087	2.0300e-003	0.3108	0.0820	1.8800e-003	0.0839	0.0000	260.9591	260.9591	0.0123	0.0000	261.2180
<b>Total</b>	<b>1.2710</b>	<b>17.9106</b>	<b>12.1147</b>	<b>0.0648</b>	<b>27.1559</b>	<b>0.3014</b>	<b>27.4574</b>	<b>3.0691</b>	<b>0.2773</b>	<b>3.3464</b>	<b>0.0000</b>	<b>5,672.9041</b>	<b>5,672.9041</b>	<b>0.0483</b>	<b>0.0000</b>	<b>5,673.9179</b>

**3.4 Pipe Installation - 2018****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					0.0284	0.0000	0.0284	3.9900e-003	0.0000	3.9900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1463	62.4776	79.9750	0.1246		3.4673	3.4673		3.4673	3.4673	0.0000	10,962.6626	10,962.6626	2.6683	0.0000	11,018.6961
<b>Total</b>	<b>3.1463</b>	<b>62.4776</b>	<b>79.9750</b>	<b>0.1246</b>	<b>0.0284</b>	<b>3.4673</b>	<b>3.4958</b>	<b>3.9900e-003</b>	<b>3.4673</b>	<b>3.4713</b>	<b>0.0000</b>	<b>10,962.6626</b>	<b>10,962.6626</b>	<b>2.6683</b>	<b>0.0000</b>	<b>11,018.6961</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	0.8633	13.1762	8.4161	0.0434	5.2595	0.1948	5.4543	0.6988	0.1792	0.8780	0.0000	3,848.5991	3,848.5991	0.0261	0.0000	3,849.1479
Vendor	0.3571	4.6021	2.5286	0.0177	3.3533	0.1046	3.4579	0.4680	0.0962	0.5642	0.0000	1,563.3459	1,563.3459	9.8100e-003	0.0000	1,563.5520
Worker	0.0505	0.1323	1.1700	3.7200e-003	0.3087	2.0300e-003	0.3108	0.0820	1.8800e-003	0.0839	0.0000	260.9591	260.9591	0.0123	0.0000	261.2180
<b>Total</b>	<b>1.2710</b>	<b>17.9106</b>	<b>12.1147</b>	<b>0.0648</b>	<b>8.9215</b>	<b>0.3014</b>	<b>9.2229</b>	<b>1.2487</b>	<b>0.2773</b>	<b>1.5260</b>	<b>0.0000</b>	<b>5,672.9041</b>	<b>5,672.9041</b>	<b>0.0483</b>	<b>0.0000</b>	<b>5,673.9179</b>

**3.5 Augur Bore 1 - 2018**

**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	0.2381	2.1596	1.1742	2.8200e-003		0.0977	0.0977		0.0922	0.0922	0.0000	248.9721	248.9721	0.0696	0.0000	250.4339
<b>Total</b>	<b>0.2381</b>	<b>2.1596</b>	<b>1.1742</b>	<b>2.8200e-003</b>		<b>0.0977</b>	<b>0.0977</b>		<b>0.0922</b>	<b>0.0922</b>	<b>0.0000</b>	<b>248.9721</b>	<b>248.9721</b>	<b>0.0696</b>	<b>0.0000</b>	<b>250.4339</b>

**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	5.7300e-003	0.0738	0.0406	2.8000e-004	0.1666	1.6800e-003	0.1683	0.0188	1.5400e-003	0.0203	0.0000	25.0804	25.0804	1.6000e-004	0.0000	25.0837
Worker	4.8000e-004	1.2600e-003	0.0111	4.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.4832	2.4832	1.2000e-004	0.0000	2.4856
<b>Total</b>	<b>6.2100e-003</b>	<b>0.0751</b>	<b>0.0517</b>	<b>3.2000e-004</b>	<b>0.1695</b>	<b>1.7000e-003</b>	<b>0.1712</b>	<b>0.0196</b>	<b>1.5600e-003</b>	<b>0.0211</b>	<b>0.0000</b>	<b>27.5636</b>	<b>27.5636</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>27.5694</b>

**3.5 Augur Bore 1 - 2018**

**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	0.0746	1.4056	1.5419	2.8200e-003		0.0626	0.0626		0.0626	0.0626	0.0000	248.9718	248.9718	0.0696	0.0000	250.4336
<b>Total</b>	<b>0.0746</b>	<b>1.4056</b>	<b>1.5419</b>	<b>2.8200e-003</b>		<b>0.0626</b>	<b>0.0626</b>		<b>0.0626</b>	<b>0.0626</b>	<b>0.0000</b>	<b>248.9718</b>	<b>248.9718</b>	<b>0.0696</b>	<b>0.0000</b>	<b>250.4336</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	0.0000	0.0000	0.0000	0.0000	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	5.7300e-003	0.0738	0.0406	2.8000e-004	0.0538	1.6800e-003	0.0555	7.5100e-003	1.5400e-003	9.0500e-003	0.0000	25.0804	25.0804	1.6000e-004	0.0000	25.0837
Worker	4.8000e-004	1.2600e-003	0.0111	4.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.4832	2.4832	1.2000e-004	0.0000	2.4856
<b>Total</b>	<b>6.2100e-003</b>	<b>0.0751</b>	<b>0.0517</b>	<b>3.2000e-004</b>	<b>0.0567</b>	<b>1.7000e-003</b>	<b>0.0584</b>	<b>8.2900e-003</b>	<b>1.5600e-003</b>	<b>9.8500e-003</b>	<b>0.0000</b>	<b>27.5636</b>	<b>27.5636</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>27.5694</b>

**3.6 Civil Work 1 - 2018**

**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	0.0294	0.1972	0.1823	2.9000e-004		0.0148	0.0148		0.0148	0.0148	0.0000	25.1070	25.1070	2.3900e-003	0.0000	25.1571
<b>Total</b>	<b>0.0294</b>	<b>0.1972</b>	<b>0.1823</b>	<b>2.9000e-004</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>25.1070</b>	<b>25.1070</b>	<b>2.3900e-003</b>	<b>0.0000</b>	<b>25.1571</b>

**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	2.2800e-003	0.0293	0.0161	1.1000e-004	0.0662	6.7000e-004	0.0669	7.4600e-003	6.1000e-004	8.0700e-003	0.0000	9.9646	9.9646	6.0000e-005	0.0000	9.9659
Worker	5.7000e-004	1.5000e-003	0.0133	4.0000e-005	3.5000e-003	2.0000e-005	3.5200e-003	9.3000e-004	2.0000e-005	9.5000e-004	0.0000	2.9597	2.9597	1.4000e-004	0.0000	2.9627
<b>Total</b>	<b>2.8500e-003</b>	<b>0.0308</b>	<b>0.0294</b>	<b>1.5000e-004</b>	<b>0.0697</b>	<b>6.9000e-004</b>	<b>0.0704</b>	<b>8.3900e-003</b>	<b>6.3000e-004</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>12.9244</b>	<b>12.9244</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>12.9286</b>

**3.6 Civil Work 1 - 2018**

**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	5.8400e-003	0.1334	0.1802	2.9000e-004		9.3500e-003	9.3500e-003		9.3500e-003	9.3500e-003	0.0000	25.1070	25.1070	2.3900e-003	0.0000	25.1571
<b>Total</b>	<b>5.8400e-003</b>	<b>0.1334</b>	<b>0.1802</b>	<b>2.9000e-004</b>		<b>9.3500e-003</b>	<b>9.3500e-003</b>		<b>9.3500e-003</b>	<b>9.3500e-003</b>	<b>0.0000</b>	<b>25.1070</b>	<b>25.1070</b>	<b>2.3900e-003</b>	<b>0.0000</b>	<b>25.1571</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	0.0000	0.0000	0.0000	0.0000	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	2.2800e-003	0.0293	0.0161	1.1000e-004	0.0214	6.7000e-004	0.0220	2.9800e-003	6.1000e-004	3.6000e-003	0.0000	9.9646	9.9646	6.0000e-005	0.0000	9.9659
Worker	5.7000e-004	1.5000e-003	0.0133	4.0000e-005	3.5000e-003	2.0000e-005	3.5200e-003	9.3000e-004	2.0000e-005	9.5000e-004	0.0000	2.9597	2.9597	1.4000e-004	0.0000	2.9627
<b>Total</b>	<b>2.8500e-003</b>	<b>0.0308</b>	<b>0.0294</b>	<b>1.5000e-004</b>	<b>0.0249</b>	<b>6.9000e-004</b>	<b>0.0256</b>	<b>3.9100e-003</b>	<b>6.3000e-004</b>	<b>4.5500e-003</b>	<b>0.0000</b>	<b>12.9244</b>	<b>12.9244</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>12.9286</b>

**3.7 Grind and Cap - 2018****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	0.5079	4.2451	3.7219	5.5400e-003		0.2944	0.2944		0.2796	0.2796	0.0000	493.0567	493.0567	0.1096	0.0000	495.3583
Paving	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>0.5079</b>	<b>4.2451</b>	<b>3.7219</b>	<b>5.5400e-003</b>		<b>0.2944</b>	<b>0.2944</b>		<b>0.2796</b>	<b>0.2796</b>	<b>0.0000</b>	<b>493.0567</b>	<b>493.0567</b>	<b>0.1096</b>	<b>0.0000</b>	<b>495.3583</b>

**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	0.0381	0.5813	0.3713	1.9100e-003	0.7263	8.5900e-003	0.7349	0.0802	7.9100e-003	0.0881	0.0000	169.7863	169.7863	1.1500e-003	0.0000	169.8106
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	2.5700e-003	6.7400e-003	0.0596	1.9000e-004	0.0157	1.0000e-004	0.0158	4.1800e-003	1.0000e-004	4.2700e-003	0.0000	13.2938	13.2938	6.3000e-004	0.0000	13.3070
<b>Total</b>	<b>0.0407</b>	<b>0.5880</b>	<b>0.4309</b>	<b>2.1000e-003</b>	<b>0.7420</b>	<b>8.6900e-003</b>	<b>0.7507</b>	<b>0.0844</b>	<b>8.0100e-003</b>	<b>0.0924</b>	<b>0.0000</b>	<b>183.0801</b>	<b>183.0801</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>183.1175</b>

### 3.7 Grind and Cap - 2018

#### 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	0.1255	2.7509	3.8698	5.5400e-003		0.1789	0.1789		0.1789	0.1789	0.0000	493.0561	493.0561	0.1096	0.0000	495.3577
Paving	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>0.1255</b>	<b>2.7509</b>	<b>3.8698</b>	<b>5.5400e-003</b>		<b>0.1789</b>	<b>0.1789</b>		<b>0.1789</b>	<b>0.1789</b>	<b>0.0000</b>	<b>493.0561</b>	<b>493.0561</b>	<b>0.1096</b>	<b>0.0000</b>	<b>495.3577</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	0.0381	0.5813	0.3713	1.9100e-003	0.2320	8.5900e-003	0.2406	0.0308	7.9100e-003	0.0387	0.0000	169.7863	169.7863	1.1500e-003	0.0000	169.8106
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	2.5700e-003	6.7400e-003	0.0596	1.9000e-004	0.0157	1.0000e-004	0.0158	4.1800e-003	1.0000e-004	4.2700e-003	0.0000	13.2938	13.2938	6.3000e-004	0.0000	13.3070
<b>Total</b>	<b>0.0407</b>	<b>0.5880</b>	<b>0.4309</b>	<b>2.1000e-003</b>	<b>0.2478</b>	<b>8.6900e-003</b>	<b>0.2565</b>	<b>0.0350</b>	<b>8.0100e-003</b>	<b>0.0430</b>	<b>0.0000</b>	<b>183.0801</b>	<b>183.0801</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>183.1175</b>

**3.8 Demobilize 1 - 2018**

**Unmitigated Construction On-Site**

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

**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	8.7000e-004	0.0112	6.1500e-003	4.0000e-005	0.0252	2.5000e-004	0.0255	2.8400e-003	2.3000e-004	3.0800e-003	0.0000	3.8001	3.8001	2.0000e-005	0.0000	3.8006
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.7000e-004</b>	<b>0.0112</b>	<b>6.1500e-003</b>	<b>4.0000e-005</b>	<b>0.0252</b>	<b>2.5000e-004</b>	<b>0.0255</b>	<b>2.8400e-003</b>	<b>2.3000e-004</b>	<b>3.0800e-003</b>	<b>0.0000</b>	<b>3.8001</b>	<b>3.8001</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>3.8006</b>

**3.8 Demobilize 1 - 2018**

**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
<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>	<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 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	8.7000e-004	0.0112	6.1500e-003	4.0000e-005	8.1500e-003	2.5000e-004	8.4100e-003	1.1400e-003	2.3000e-004	1.3700e-003	0.0000	3.8001	3.8001	2.0000e-005	0.0000	3.8006
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.7000e-004</b>	<b>0.0112</b>	<b>6.1500e-003</b>	<b>4.0000e-005</b>	<b>8.1500e-003</b>	<b>2.5000e-004</b>	<b>8.4100e-003</b>	<b>1.1400e-003</b>	<b>2.3000e-004</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>3.8001</b>	<b>3.8001</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>3.8006</b>

**3.9 HDD - 2018**

**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	0.5536	5.3853	3.9245	7.6900e-003		0.2882	0.2882		0.2779	0.2779	0.0000	680.7925	680.7925	0.1331	0.0000	683.5872
<b>Total</b>	<b>0.5536</b>	<b>5.3853</b>	<b>3.9245</b>	<b>7.6900e-003</b>		<b>0.2882</b>	<b>0.2882</b>		<b>0.2779</b>	<b>0.2779</b>	<b>0.0000</b>	<b>680.7925</b>	<b>680.7925</b>	<b>0.1331</b>	<b>0.0000</b>	<b>683.5872</b>

**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	3.7900e-003	0.0489	0.0268	1.9000e-004	0.1102	1.1100e-003	0.1113	0.0124	1.0200e-003	0.0134	0.0000	16.5936	16.5936	1.0000e-004	0.0000	16.5958
Worker	9.5000e-004	2.5000e-003	0.0221	7.0000e-005	5.8300e-003	4.0000e-005	5.8700e-003	1.5500e-003	4.0000e-005	1.5800e-003	0.0000	4.9287	4.9287	2.3000e-004	0.0000	4.9336
<b>Total</b>	<b>4.7400e-003</b>	<b>0.0514</b>	<b>0.0489</b>	<b>2.6000e-004</b>	<b>0.1161</b>	<b>1.1500e-003</b>	<b>0.1172</b>	<b>0.0140</b>	<b>1.0600e-003</b>	<b>0.0150</b>	<b>0.0000</b>	<b>21.5223</b>	<b>21.5223</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>21.5294</b>

**3.9 HDD - 2018**

**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	0.1718	3.6298	4.7687	7.6900e-003		0.2075	0.2075		0.2075	0.2075	0.0000	680.7917	680.7917	0.1331	0.0000	683.5864
<b>Total</b>	<b>0.1718</b>	<b>3.6298</b>	<b>4.7687</b>	<b>7.6900e-003</b>		<b>0.2075</b>	<b>0.2075</b>		<b>0.2075</b>	<b>0.2075</b>	<b>0.0000</b>	<b>680.7917</b>	<b>680.7917</b>	<b>0.1331</b>	<b>0.0000</b>	<b>683.5864</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	0.0000	0.0000	0.0000	0.0000	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	3.7900e-003	0.0489	0.0268	1.9000e-004	0.0356	1.1100e-003	0.0367	4.9700e-003	1.0200e-003	5.9900e-003	0.0000	16.5936	16.5936	1.0000e-004	0.0000	16.5958
Worker	9.5000e-004	2.5000e-003	0.0221	7.0000e-005	5.8300e-003	4.0000e-005	5.8700e-003	1.5500e-003	4.0000e-005	1.5800e-003	0.0000	4.9287	4.9287	2.3000e-004	0.0000	4.9336
<b>Total</b>	<b>4.7400e-003</b>	<b>0.0514</b>	<b>0.0489</b>	<b>2.6000e-004</b>	<b>0.0414</b>	<b>1.1500e-003</b>	<b>0.0426</b>	<b>6.5200e-003</b>	<b>1.0600e-003</b>	<b>7.5700e-003</b>	<b>0.0000</b>	<b>21.5223</b>	<b>21.5223</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>21.5294</b>

**3.10 Civil Work 2 - 2018**

**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	4.6300e-003	0.0311	0.0287	5.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	3.9576	3.9576	3.8000e-004	0.0000	3.9655
<b>Total</b>	<b>4.6300e-003</b>	<b>0.0311</b>	<b>0.0287</b>	<b>5.0000e-005</b>		<b>2.3300e-003</b>	<b>2.3300e-003</b>		<b>2.3300e-003</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>3.9576</b>	<b>3.9576</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>3.9655</b>

**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	3.0000e-004	3.8500e-003	2.1200e-003	1.0000e-005	8.6900e-003	9.0000e-005	8.7800e-003	9.8000e-004	8.0000e-005	1.0600e-003	0.0000	1.3089	1.3089	1.0000e-005	0.0000	1.3091
Worker	8.0000e-005	2.0000e-004	1.7400e-003	1.0000e-005	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3888	0.3888	2.0000e-005	0.0000	0.3892
<b>Total</b>	<b>3.8000e-004</b>	<b>4.0500e-003</b>	<b>3.8600e-003</b>	<b>2.0000e-005</b>	<b>9.1500e-003</b>	<b>9.0000e-005</b>	<b>9.2400e-003</b>	<b>1.1000e-003</b>	<b>8.0000e-005</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.6977</b>	<b>1.6977</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.6983</b>

**3.10 Civil Work 2 - 2018**

**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	9.2000e-004	0.0210	0.0284	5.0000e-005		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	3.9576	3.9576	3.8000e-004	0.0000	3.9654
<b>Total</b>	<b>9.2000e-004</b>	<b>0.0210</b>	<b>0.0284</b>	<b>5.0000e-005</b>		<b>1.4700e-003</b>	<b>1.4700e-003</b>		<b>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>3.9576</b>	<b>3.9576</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>3.9654</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	0.0000	0.0000	0.0000	0.0000	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	3.0000e-004	3.8500e-003	2.1200e-003	1.0000e-005	2.8100e-003	9.0000e-005	2.9000e-003	3.9000e-004	8.0000e-005	4.7000e-004	0.0000	1.3089	1.3089	1.0000e-005	0.0000	1.3091
Worker	8.0000e-005	2.0000e-004	1.7400e-003	1.0000e-005	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3888	0.3888	2.0000e-005	0.0000	0.3892
<b>Total</b>	<b>3.8000e-004</b>	<b>4.0500e-003</b>	<b>3.8600e-003</b>	<b>2.0000e-005</b>	<b>3.2700e-003</b>	<b>9.0000e-005</b>	<b>3.3600e-003</b>	<b>5.1000e-004</b>	<b>8.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.6977</b>	<b>1.6977</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.6983</b>

**3.11 Augur Bore 2 - 2018**

**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	0.0879	0.7985	0.4345	1.0500e-003		0.0361	0.0361		0.0341	0.0341	0.0000	92.4627	92.4627	0.0259	0.0000	93.0056
<b>Total</b>	<b>0.0879</b>	<b>0.7985</b>	<b>0.4345</b>	<b>1.0500e-003</b>		<b>0.0361</b>	<b>0.0361</b>		<b>0.0341</b>	<b>0.0341</b>	<b>0.0000</b>	<b>92.4627</b>	<b>92.4627</b>	<b>0.0259</b>	<b>0.0000</b>	<b>93.0056</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7900e-003	0.0231	0.0127	9.0000e-005	0.0522	5.3000e-004	0.0527	5.8800e-003	4.8000e-004	6.3600e-003	0.0000	7.8535	7.8535	5.0000e-005	0.0000	7.8545
Worker	1.5000e-004	3.9000e-004	3.4900e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7776	0.7776	4.0000e-005	0.0000	0.7783
<b>Total</b>	<b>1.9400e-003</b>	<b>0.0235</b>	<b>0.0162</b>	<b>1.0000e-004</b>	<b>0.0531</b>	<b>5.4000e-004</b>	<b>0.0536</b>	<b>6.1200e-003</b>	<b>4.9000e-004</b>	<b>6.6100e-003</b>	<b>0.0000</b>	<b>8.6310</b>	<b>8.6310</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>8.6328</b>

### 3.11 Augur Bore 2 - 2018

#### 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	0.0276	0.5214	0.5724	1.0500e-003		0.0232	0.0232		0.0232	0.0232	0.0000	92.4626	92.4626	0.0259	0.0000	93.0055
<b>Total</b>	<b>0.0276</b>	<b>0.5214</b>	<b>0.5724</b>	<b>1.0500e-003</b>		<b>0.0232</b>	<b>0.0232</b>		<b>0.0232</b>	<b>0.0232</b>	<b>0.0000</b>	<b>92.4626</b>	<b>92.4626</b>	<b>0.0259</b>	<b>0.0000</b>	<b>93.0055</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7900e-003	0.0231	0.0127	9.0000e-005	0.0169	5.3000e-004	0.0174	2.3500e-003	4.8000e-004	2.8300e-003	0.0000	7.8535	7.8535	5.0000e-005	0.0000	7.8545
Worker	1.5000e-004	3.9000e-004	3.4900e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7776	0.7776	4.0000e-005	0.0000	0.7783
<b>Total</b>	<b>1.9400e-003</b>	<b>0.0235</b>	<b>0.0162</b>	<b>1.0000e-004</b>	<b>0.0178</b>	<b>5.4000e-004</b>	<b>0.0183</b>	<b>2.5900e-003</b>	<b>4.9000e-004</b>	<b>3.0800e-003</b>	<b>0.0000</b>	<b>8.6310</b>	<b>8.6310</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>8.6328</b>

### 3.12 Hydrotect - 2018

#### 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	0.1644	1.2241	0.9591	1.6100e-003		0.0705	0.0705		0.0684	0.0684	0.0000	138.0403	138.0403	0.0273	0.0000	138.6129
<b>Total</b>	<b>0.1644</b>	<b>1.2241</b>	<b>0.9591</b>	<b>1.6100e-003</b>		<b>0.0705</b>	<b>0.0705</b>		<b>0.0684</b>	<b>0.0684</b>	<b>0.0000</b>	<b>138.0403</b>	<b>138.0403</b>	<b>0.0273</b>	<b>0.0000</b>	<b>138.6129</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1100e-003	0.0530	0.0291	2.0000e-004	0.1195	1.2000e-003	0.1207	0.0135	1.1100e-003	0.0146	0.0000	17.9870	17.9870	1.1000e-004	0.0000	17.9893
Worker	3.4000e-004	9.0000e-004	7.9800e-003	3.0000e-005	2.1100e-003	1.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.7809	1.7809	8.0000e-005	0.0000	1.7826
<b>Total</b>	<b>4.4500e-003</b>	<b>0.0539</b>	<b>0.0371</b>	<b>2.3000e-004</b>	<b>0.1216</b>	<b>1.2100e-003</b>	<b>0.1228</b>	<b>0.0140</b>	<b>1.1200e-003</b>	<b>0.0151</b>	<b>0.0000</b>	<b>19.7678</b>	<b>19.7678</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>19.7720</b>

### 3.12 Hydrotect - 2018

#### 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	0.0420	0.8132	0.9952	1.6100e-003		0.0467	0.0467		0.0467	0.0467	0.0000	138.0401	138.0401	0.0273	0.0000	138.6127
<b>Total</b>	<b>0.0420</b>	<b>0.8132</b>	<b>0.9952</b>	<b>1.6100e-003</b>		<b>0.0467</b>	<b>0.0467</b>		<b>0.0467</b>	<b>0.0467</b>	<b>0.0000</b>	<b>138.0401</b>	<b>138.0401</b>	<b>0.0273</b>	<b>0.0000</b>	<b>138.6127</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1100e-003	0.0530	0.0291	2.0000e-004	0.0386	1.2000e-003	0.0398	5.3800e-003	1.1100e-003	6.4900e-003	0.0000	17.9870	17.9870	1.1000e-004	0.0000	17.9893
Worker	3.4000e-004	9.0000e-004	7.9800e-003	3.0000e-005	2.1100e-003	1.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.7809	1.7809	8.0000e-005	0.0000	1.7826
<b>Total</b>	<b>4.4500e-003</b>	<b>0.0539</b>	<b>0.0371</b>	<b>2.3000e-004</b>	<b>0.0407</b>	<b>1.2100e-003</b>	<b>0.0419</b>	<b>5.9400e-003</b>	<b>1.1200e-003</b>	<b>7.0600e-003</b>	<b>0.0000</b>	<b>19.7678</b>	<b>19.7678</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>19.7720</b>

**3.13 Demobilize 2 - 2018**

**Unmitigated Construction On-Site**

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

**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	3.5900e-003	0.0462	0.0254	1.8000e-004	0.1043	1.0500e-003	0.1054	0.0118	9.7000e-004	0.0127	0.0000	15.7069	15.7069	1.0000e-004	0.0000	15.7090
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.5900e-003</b>	<b>0.0462</b>	<b>0.0254</b>	<b>1.8000e-004</b>	<b>0.1043</b>	<b>1.0500e-003</b>	<b>0.1054</b>	<b>0.0118</b>	<b>9.7000e-004</b>	<b>0.0127</b>	<b>0.0000</b>	<b>15.7069</b>	<b>15.7069</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>15.7090</b>

**3.13 Demobilize 2 - 2018**

**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
<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>	<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 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	3.5900e-003	0.0462	0.0254	1.8000e-004	0.0337	1.0500e-003	0.0347	4.7000e-003	9.7000e-004	5.6700e-003	0.0000	15.7069	15.7069	1.0000e-004	0.0000	15.7090
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.5900e-003</b>	<b>0.0462</b>	<b>0.0254</b>	<b>1.8000e-004</b>	<b>0.0337</b>	<b>1.0500e-003</b>	<b>0.0347</b>	<b>4.7000e-003</b>	<b>9.7000e-004</b>	<b>5.6700e-003</b>	<b>0.0000</b>	<b>15.7069</b>	<b>15.7069</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>15.7090</b>

**4.0 Operational Detail - Mobile**

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#### 4.1 Mitigation Measures Mobile

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

#### 5.0 Energy Detail

#### 5.1 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

#### 6.0 Area Detail

#### 6.1 Mitigation Measures Area



## 6.2 Area by SubCategory

### Mitigated

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

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	62	0.31	Diesel
Cranes	1	10.00	1	226	0.29	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	6	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	4	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	2	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	240	400	0.38	Diesel
Off-Highway Trucks	1	10.00	12	400	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

**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					
Welders	2.4000e-004	1.0200e-003	1.1300e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1176	0.1176	2.0000e-005	0.0000	0.1181
Aerial Lifts	3.0000e-005	4.2000e-004	6.7000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0928	0.0928	3.0000e-005	0.0000	0.0934
Cranes	3.1000e-004	3.6700e-003	1.4000e-003	0.0000		1.6000e-004	1.6000e-004		1.4000e-004	1.4000e-004	0.0000	0.3169	0.3169	1.0000e-004	0.0000	0.3190
Off-Highway Trucks	0.1294	1.3100	0.7283	2.4100e-003		0.0476	0.0476		0.0438	0.0438	0.0000	216.1702	216.1702	0.0684	0.0000	217.6065
Tractors/Loaders/Backhoes	1.5000e-004	1.4600e-003	1.4400e-003	0.0000		1.0000e-004	1.0000e-004		9.0000e-005	9.0000e-005	0.0000	0.1744	0.1744	6.0000e-005	0.0000	0.1755
<b>Total</b>	<b>0.1301</b>	<b>1.3166</b>	<b>0.7329</b>	<b>2.4100e-003</b>		<b>0.0480</b>	<b>0.0480</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>216.8719</b>	<b>216.8719</b>	<b>0.0686</b>	<b>0.0000</b>	<b>218.3124</b>

**10.0 Vegetation**

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**Pipeline Safety & Reliability Project**  
**San Diego County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume all trips are paved.

Grading - Total Area Disturbed = 0, all work will be done in urban areas within pavement

Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	40.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	45.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00



tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	PhaseEndDate	2/1/2019	1/16/2019
tblConstructionPhase	PhaseEndDate	1/22/2019	1/5/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	1/6/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblGrading	AcresOfGrading	21.00	0.00
tblGrading	MaterialExported	0.00	16,525.00
tblGrading	MaterialImported	0.00	14,091.00
tblOffRoadEquipment	HorsePower	167.00	75.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
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tbloffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
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tbloffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Excavators

tbloffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tbloffRoadEquipment	OffRoadEquipmentType		Other Material Handling Equipment
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
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tbloffRoadEquipment	OffRoadEquipmentType		Generator Sets
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tbloffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tbloffRoadEquipment	OffRoadEquipmentType		Rollers
tbloffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tbloffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tbloffRoadEquipment	OffRoadEquipmentType		Welders
tbloffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tbloffRoadEquipment	OffRoadEquipmentType		Cranes
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	UsageHours	4.00	7.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	6.00



tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
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tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	49.00

tblTripsAndVMT	HaulingTripNumber	3,827.00	2,691.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
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tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	PhaseName		Worker Trips
tblTripsAndVMT	PhaseName		Hydrotest
tblTripsAndVMT	PhaseName		Demobilize 2
tblTripsAndVMT	PhaseName		Grind and Cap
tblTripsAndVMT	PhaseName		Pipe Installation
tblTripsAndVMT	VendorTripLength	7.30	30.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
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tblVehicleEF	HHD	0.01	0.01

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tblVehicleEF	HHD	67.15	69.82
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tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	1.7890e-003	1.9690e-003
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tblVehicleEF	HHD	1.6670e-003	1.8090e-003
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tblVehicleEF	HHD	0.55	0.61
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tblVehicleEF	HHD	1.6670e-003	1.8090e-003
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tblVehicleEF	HHD	0.55	0.61
tblVehicleEF	HHD	2.57	2.82
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.01
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tblVehicleEF	HHD	4.34	4.54
tblVehicleEF	HHD	4.23	4.65
tblVehicleEF	HHD	4.16	4.28
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tblVehicleEF	HHD	0.07	0.07
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tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	2.7920e-003	3.0800e-003

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tblVehicleEF	HHD	3.2130e-003	3.5150e-003
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tblVehicleEF	HHD	0.07	0.07
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
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tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.67	0.65
tblVehicleEF	HHD	1.4520e-003	1.5750e-003
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tblVehicleEF	LDA	9.1840e-003	0.01
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tblVehicleEF	LDA	0.12	0.13
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tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.16	0.18
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tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.17	0.19
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tblVehicleEF	LDA	0.97	1.05
tblVehicleEF	LDA	1.58	1.71
tblVehicleEF	LDA	269.94	281.19

tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	7.6200e-004	7.6400e-004
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.14	0.16
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.85	0.93
tblVehicleEF	LDA	2.32	2.51
tblVehicleEF	LDA	252.81	263.35
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51

tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	7.7500e-004	7.7800e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.19	0.20
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.68	1.82
tblVehicleEF	LDT1	4.00	4.33
tblVehicleEF	LDT1	309.85	320.90
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.23	0.25

tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	4.1290e-003	4.1270e-003
tblVehicleEF	LDT1	9.1600e-004	9.2000e-004
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.85	2.00
tblVehicleEF	LDT1	3.01	3.26
tblVehicleEF	LDT1	326.49	338.09
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003

tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	4.3540e-003	4.3530e-003
tblVehicleEF	LDT1	8.9800e-004	9.0100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.26	0.28
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.65	1.79
tblVehicleEF	LDT1	4.37	4.74
tblVehicleEF	LDT1	306.84	317.78
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003

tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	4.0880e-003	4.0870e-003
tblVehicleEF	LDT1	9.2200e-004	9.2700e-004
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.33	0.36
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.01	1.10
tblVehicleEF	LDT2	2.42	2.66
tblVehicleEF	LDT2	378.64	391.32
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003

tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.8450e-003	4.8470e-003
tblVehicleEF	LDT2	1.0450e-003	1.0480e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.12	1.22
tblVehicleEF	LDT2	1.81	2.00
tblVehicleEF	LDT2	399.61	412.98
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.19	0.22
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	5.1160e-003	5.1180e-003
tblVehicleEF	LDT2	1.0340e-003	1.0370e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	0.99	1.08
tblVehicleEF	LDT2	2.65	2.92
tblVehicleEF	LDT2	374.85	387.40
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	4.7960e-003	4.7980e-003
tblVehicleEF	LDT2	1.0490e-003	1.0530e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.64	1.79
tblVehicleEF	LHD1	3.92	4.10
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.32	1.41
tblVehicleEF	LHD1	1.18	1.20
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05

tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.7800e-004	4.8000e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.38	0.40
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.67	1.82

tblVehicleEF	LHD1	3.06	3.21
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.26	1.35
tblVehicleEF	LHD1	1.13	1.15
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.31	0.32
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.6300e-004	4.6500e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.19	0.20
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.62	1.78
tblVehicleEF	LHD1	4.30	4.50
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.31	1.41
tblVehicleEF	LHD1	1.21	1.23
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.37	0.40
tblVehicleEF	LHD1	8.0860e-003	8.0890e-003
tblVehicleEF	LHD1	4.8400e-004	4.8700e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.15
tblVehicleEF	LHD2	1.93	2.06
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.92	2.06
tblVehicleEF	LHD2	0.68	0.69

tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.18	0.19
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8300e-004	2.8400e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.07	1.16
tblVehicleEF	LHD2	1.52	1.62
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.85	1.98
tblVehicleEF	LHD2	0.65	0.66
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.7500e-004	2.7600e-004

tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.14
tblVehicleEF	LHD2	2.12	2.25
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.91	2.06
tblVehicleEF	LHD2	0.69	0.71
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.19	0.20
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8600e-004	2.8700e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	MCY	28.80	29.57
tblVehicleEF	MCY	10.23	10.18
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.24	1.25
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004

tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	2.97	3.00
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	2.2710e-003	2.2680e-003
tblVehicleEF	MCY	6.6000e-004	6.6500e-004
tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	3.24	3.27
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.28	2.29
tblVehicleEF	MCY	27.18	27.88
tblVehicleEF	MCY	8.78	8.76
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12

tblVehicleEF	MCY	2.88	2.90
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.82	1.83
tblVehicleEF	MCY	2.2430e-003	2.2380e-003
tblVehicleEF	MCY	6.2800e-004	6.3300e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	3.14	3.16
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.95	1.96
tblVehicleEF	MCY	29.90	30.70
tblVehicleEF	MCY	10.90	10.84
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.26	1.26
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.02	3.05
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.26	2.28

tblVehicleEF	MCY	2.2900e-003	2.2870e-003
tblVehicleEF	MCY	6.7500e-004	6.8000e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.29	3.32
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.80	1.94
tblVehicleEF	MDV	4.47	4.76
tblVehicleEF	MDV	507.05	522.26
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.41	0.44
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.37	0.39
tblVehicleEF	MDV	6.1860e-003	6.1840e-003

tblVehicleEF	MDV	1.3510e-003	1.3540e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.99	2.13
tblVehicleEF	MDV	3.36	3.58
tblVehicleEF	MDV	534.71	550.71
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.30	0.32
tblVehicleEF	MDV	6.5270e-003	6.5240e-003
tblVehicleEF	MDV	1.3310e-003	1.3340e-003

tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.78	1.91
tblVehicleEF	MDV	4.89	5.20
tblVehicleEF	MDV	502.05	517.12
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	6.1240e-003	6.1230e-003
tblVehicleEF	MDV	1.3580e-003	1.3620e-003
tblVehicleEF	MDV	0.05	0.05

tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.42	0.45
tblVehicleEF	MH	2.54	3.13
tblVehicleEF	MH	7.17	7.80
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.78	0.82
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.87	0.94
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.40	0.44
tblVehicleEF	MH	7.5230e-003	7.5340e-003
tblVehicleEF	MH	4.4000e-004	4.5300e-004
tblVehicleEF	MH	0.87	0.94

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	2.60	3.20
tblVehicleEF	MH	5.48	5.94
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.38	1.47
tblVehicleEF	MH	0.74	0.78
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	1.20	1.30
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.12	0.13
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.34	0.37
tblVehicleEF	MH	7.5240e-003	7.5350e-003
tblVehicleEF	MH	4.1200e-004	4.2100e-004
tblVehicleEF	MH	1.20	1.30

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.36	0.39
tblVehicleEF	MH	2.51	3.10
tblVehicleEF	MH	7.93	8.64
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.79	0.84
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.92	0.99
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	7.5230e-003	7.5330e-003
tblVehicleEF	MH	4.5300e-004	4.6700e-004
tblVehicleEF	MH	0.92	0.99

tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.46	0.51
tblVehicleEF	MHD	7.5130e-003	7.5000e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.87	1.86
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	18.09	19.57
tblVehicleEF	MHD	582.55	590.85
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.15	5.46
tblVehicleEF	MHD	2.29	2.63
tblVehicleEF	MHD	1.90	2.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.2790e-003	2.4930e-003

tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.16	0.16
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.07	1.18
tblVehicleEF	MHD	6.0410e-003	6.0290e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.7600e-004	9.1300e-004
tblVehicleEF	MHD	2.2790e-003	2.4930e-003
tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.18	0.18
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.14	1.27
tblVehicleEF	MHD	7.0810e-003	7.0680e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.36	1.35
tblVehicleEF	MHD	0.90	1.02
tblVehicleEF	MHD	14.01	15.23
tblVehicleEF	MHD	617.16	625.96
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.32	5.63
tblVehicleEF	MHD	2.20	2.52
tblVehicleEF	MHD	1.80	1.92

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.91	1.00
tblVehicleEF	MHD	6.4000e-003	6.3870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.0700e-004	8.4000e-004
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.97	1.07
tblVehicleEF	MHD	8.1110e-003	8.0960e-003

tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	2.58	2.56
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	19.91	21.51
tblVehicleEF	MHD	534.76	542.38
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.92	5.21
tblVehicleEF	MHD	2.29	2.62
tblVehicleEF	MHD	1.94	2.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.14	1.27

tblVehicleEF	MHD	5.5450e-003	5.5340e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.0700e-004	9.4600e-004
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.20	0.20
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.22	1.35
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	2.55	2.48
tblVehicleEF	OBUS	1.49	1.65
tblVehicleEF	OBUS	11.39	12.02
tblVehicleEF	OBUS	545.88	554.85
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.14	5.30
tblVehicleEF	OBUS	2.96	3.28
tblVehicleEF	OBUS	1.61	1.69
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	9.3200e-003	9.4330e-003

tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.44	0.42
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.69	0.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.7700e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.50	0.48
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.74	0.78
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	1.85	1.80
tblVehicleEF	OBUS	1.52	1.68
tblVehicleEF	OBUS	8.89	9.38
tblVehicleEF	OBUS	578.31	587.81
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25

tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.30	5.47
tblVehicleEF	OBUS	2.83	3.13
tblVehicleEF	OBUS	1.53	1.61
tblVehicleEF	OBUS	8.5400e-003	8.6440e-003
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	7.8570e-003	7.9520e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.41	0.40
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.60	0.63
tblVehicleEF	OBUS	5.9970e-003	5.9980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.2300e-004	5.3300e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.45
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004

tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.64	0.67
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	3.51	3.41
tblVehicleEF	OBUS	1.48	1.64
tblVehicleEF	OBUS	12.52	13.20
tblVehicleEF	OBUS	501.09	509.32
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	4.91	5.06
tblVehicleEF	OBUS	2.95	3.27
tblVehicleEF	OBUS	1.64	1.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.46

tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.74	0.77
tblVehicleEF	OBUS	5.1960e-003	5.1970e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.8500e-004	5.9700e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.54	0.52
tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.79	0.83
tblVehicleEF	SBUS	4.3860e-003	4.3220e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.02	0.99
tblVehicleEF	SBUS	4.62	6.19
tblVehicleEF	SBUS	35.49	38.94
tblVehicleEF	SBUS	556.78	563.29
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.66	7.75
tblVehicleEF	SBUS	7.17	7.37
tblVehicleEF	SBUS	2.64	2.69
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.35	2.80
tblVehicleEF	SBUS	5.7740e-003	5.7480e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9360e-003	2.0510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.51	3.00
tblVehicleEF	SBUS	4.1340e-003	4.0730e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	0.74	0.72

tblVehicleEF	SBUS	4.64	6.04
tblVehicleEF	SBUS	29.55	32.78
tblVehicleEF	SBUS	589.86	596.75
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.91	8.00
tblVehicleEF	SBUS	6.88	7.07
tblVehicleEF	SBUS	2.47	2.52
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.41	0.47
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.06	2.43
tblVehicleEF	SBUS	6.1170e-003	6.0890e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	1.8340e-003	1.9430e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.20	2.60
tblVehicleEF	SBUS	4.7350e-003	4.6660e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.41	1.37
tblVehicleEF	SBUS	4.62	6.29
tblVehicleEF	SBUS	38.45	42.02
tblVehicleEF	SBUS	511.10	517.07
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.32	7.40
tblVehicleEF	SBUS	7.15	7.34
tblVehicleEF	SBUS	2.72	2.77
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.49	2.99
tblVehicleEF	SBUS	5.3000e-003	5.2760e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9870e-003	2.1050e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.44	0.52
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.66	3.20
tblVehicleEF	UBUS	3.05	3.27
tblVehicleEF	UBUS	5.69	5.79
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.19	11.63
tblVehicleEF	UBUS	0.89	0.88
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004

tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.52	0.53
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.5800e-004	3.6100e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.56	0.56
tblVehicleEF	UBUS	3.08	3.29
tblVehicleEF	UBUS	4.68	4.77
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	10.79	11.22
tblVehicleEF	UBUS	0.84	0.84
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003

tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.46	0.47
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.4100e-004	3.4400e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.50	0.50
tblVehicleEF	UBUS	3.04	3.26
tblVehicleEF	UBUS	6.13	6.23
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.14	11.58
tblVehicleEF	UBUS	0.91	0.90
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.59	0.61

tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.6600e-004	3.6900e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.66	0.69
tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.58	0.59

## 2.0 Emissions Summary

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**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	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.1301	1.3166	0.7329	2.4200e-003		0.0480	0.0480		0.0441	0.0441	0.0000	216.8719	216.8719	0.0686	0.0000	218.3124
<b>Total</b>	<b>0.1301</b>	<b>1.3166</b>	<b>0.7329</b>	<b>2.4200e-003</b>		<b>0.0480</b>	<b>0.0480</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>216.8719</b>	<b>216.8719</b>	<b>0.0686</b>	<b>0.0000</b>	<b>218.3124</b>

**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	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.1301	1.3166	0.7329	2.4200e-003		0.0480	0.0480		0.0441	0.0441	0.0000	216.8719	216.8719	0.0686	0.0000	218.3124
<b>Total</b>	<b>0.1301</b>	<b>1.3166</b>	<b>0.7329</b>	<b>2.4200e-003</b>		<b>0.0480</b>	<b>0.0480</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>216.8719</b>	<b>216.8719</b>	<b>0.0686</b>	<b>0.0000</b>	<b>218.3124</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
<b>Percent Reduction</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipe Installation	Site Preparation	1/1/2019	1/16/2019	6	14	
2	Worker Trips	Building Construction	1/1/2019	1/16/2019	6	14	
3	Hydrotest	Building Construction	1/1/2019	1/5/2019	6	5	
4	Demobilize 2	Building Construction	1/1/2019	1/16/2019	6	14	
5	Grind and Cap	Paving	1/1/2019	1/5/2019	6	5	

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
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Paving Equipment	4	5.00	130	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Worker Trips	Cranes	0	4.00	226	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Off-Highway Trucks	5	8.00	400	0.38
Pipe Installation	Off-Highway Trucks	5	6.00	400	0.38
Pipe Installation	Air Compressors	28	6.00	78	0.48

Pipe Installation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Pipe Installation	Other General Industrial Equipment	5	6.00	87	0.34
Pipe Installation	Air Compressors	10	6.00	78	0.48
Pipe Installation	Crawler Tractors	3	8.00	208	0.43
Pipe Installation	Excavators	18	7.00	162	0.38
Pipe Installation	Excavators	10	7.00	162	0.38
Pipe Installation	Rough Terrain Forklifts	5	6.00	100	0.40
Pipe Installation	Other Material Handling Equipment	5	6.00	75	0.40
Pipe Installation	Graders	0	8.00	174	0.41
Pipe Installation	Excavators	5	6.00	162	0.38
Pipe Installation	Excavators	10	6.00	162	0.38
Pipe Installation	Generator Sets	10	8.00	84	0.74
Pipe Installation	Cranes	5	7.00	226	0.29
Pipe Installation	Bore/Drill Rigs	5	7.00	205	0.50
Pipe Installation	Rollers	4	6.00	80	0.38
Pipe Installation	Concrete/Industrial Saws	8	5.00	81	0.73
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Welders	40	7.00	46	0.45
Pipe Installation	Rubber Tired Loaders	3	8.00	199	0.36
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Excavators	2	6.00	162	0.38
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Welders	4	7.00	46	0.45

Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Pavers	0	7.00	125	0.42
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Worker Trips	0	600.00	24.00	0.00	30.00	30.00	30.00	LD_Mix	MHDT	HHDT
Hydrotest	0	2.00	6.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	0	4.00	0.00	49.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Pipe Installation	0	68.00	121.00	2,691.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Pipe Installation - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1500e-003	0.0000	2.1500e-003	3.3000e-004	0.0000	3.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4251	3.5355	3.1864	5.7300e-003		0.1906	0.1906		0.1820	0.1820	0.0000	498.6060	498.6060	0.1205	0.0000	501.1361
<b>Total</b>	<b>0.4251</b>	<b>3.5355</b>	<b>3.1864</b>	<b>5.7300e-003</b>	<b>2.1500e-003</b>	<b>0.1906</b>	<b>0.1928</b>	<b>3.3000e-004</b>	<b>0.1820</b>	<b>0.1823</b>	<b>0.0000</b>	<b>498.6060</b>	<b>498.6060</b>	<b>0.1205</b>	<b>0.0000</b>	<b>501.1361</b>

### 3.2 Pipe Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0382	0.5480	0.3734	1.9800e-003	0.0459	8.7600e-003	0.0547	0.0126	8.0600e-003	0.0207	0.0000	172.5220	172.5220	1.1800e-003	0.0000	172.5468
Vendor	0.0149	0.1849	0.1040	8.1000e-004	0.0313	4.1400e-003	0.0354	9.2700e-003	3.8100e-003	0.0131	0.0000	70.2773	70.2773	4.2000e-004	0.0000	70.2861
Worker	2.1000e-003	5.6000e-003	0.0492	1.7000e-004	0.0141	9.0000e-005	0.0142	3.7500e-003	9.0000e-005	3.8400e-003	0.0000	11.5073	11.5073	5.3000e-004	0.0000	11.5185
<b>Total</b>	<b>0.0551</b>	<b>0.7385</b>	<b>0.5266</b>	<b>2.9600e-003</b>	<b>0.0913</b>	<b>0.0130</b>	<b>0.1043</b>	<b>0.0256</b>	<b>0.0120</b>	<b>0.0376</b>	<b>0.0000</b>	<b>254.3066</b>	<b>254.3066</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>254.3514</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					9.7000e-004	0.0000	9.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1446	2.8772	3.6795	5.7300e-003		0.1603	0.1603		0.1603	0.1603	0.0000	498.6054	498.6054	0.1205	0.0000	501.1355
<b>Total</b>	<b>0.1446</b>	<b>2.8772</b>	<b>3.6795</b>	<b>5.7300e-003</b>	<b>9.7000e-004</b>	<b>0.1603</b>	<b>0.1613</b>	<b>1.5000e-004</b>	<b>0.1603</b>	<b>0.1605</b>	<b>0.0000</b>	<b>498.6054</b>	<b>498.6054</b>	<b>0.1205</b>	<b>0.0000</b>	<b>501.1355</b>





### 3.3 Worker Trips - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.0282	0.0173	1.2000e-004	4.6600e-003	6.2000e-004	5.2800e-003	1.3800e-003	5.7000e-004	1.9500e-003	0.0000	10.5163	10.5163	6.0000e-005	0.0000	10.5176
Worker	0.0160	0.0375	0.3322	1.1300e-003	0.0935	6.2000e-004	0.0941	0.0248	5.7000e-004	0.0254	0.0000	76.3487	76.3487	3.5400e-003	0.0000	76.4231
<b>Total</b>	<b>0.0184</b>	<b>0.0657</b>	<b>0.3496</b>	<b>1.2500e-003</b>	<b>0.0981</b>	<b>1.2400e-003</b>	<b>0.0994</b>	<b>0.0262</b>	<b>1.1400e-003</b>	<b>0.0274</b>	<b>0.0000</b>	<b>86.8649</b>	<b>86.8649</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>86.9407</b>

### 3.4 Hydrotest - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0102	0.0779	0.0658	1.1000e-004		4.2800e-003	4.2800e-003		4.1500e-003	4.1500e-003	0.0000	9.6405	9.6405	1.8400e-003	0.0000	9.6791
<b>Total</b>	<b>0.0102</b>	<b>0.0779</b>	<b>0.0658</b>	<b>1.1000e-004</b>		<b>4.2800e-003</b>	<b>4.2800e-003</b>		<b>4.1500e-003</b>	<b>4.1500e-003</b>	<b>0.0000</b>	<b>9.6405</b>	<b>9.6405</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>9.6791</b>

### 3.4 Hydrotest - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	3.2700e-003	1.8400e-003	1.0000e-005	5.5000e-004	7.0000e-005	6.3000e-004	1.6000e-004	7.0000e-005	2.3000e-004	0.0000	1.2446	1.2446	1.0000e-005	0.0000	1.2447	
Worker	2.0000e-005	6.0000e-005	5.2000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1209	0.1209	1.0000e-005	0.0000	0.1210	
<b>Total</b>	<b>2.8000e-004</b>	<b>3.3300e-003</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>	<b>7.0000e-004</b>	<b>7.0000e-005</b>	<b>7.8000e-004</b>	<b>2.0000e-004</b>	<b>7.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.3655</b>	<b>1.3655</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.3657</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					
Off-Road	2.9500e-003	0.0572	0.0700	1.1000e-004		3.2800e-003	3.2800e-003		3.2800e-003	3.2800e-003	0.0000	9.6405	9.6405	1.8400e-003	0.0000	9.6791
<b>Total</b>	<b>2.9500e-003</b>	<b>0.0572</b>	<b>0.0700</b>	<b>1.1000e-004</b>		<b>3.2800e-003</b>	<b>3.2800e-003</b>		<b>3.2800e-003</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>9.6405</b>	<b>9.6405</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>9.6791</b>





### 3.5 Demobilize 2 - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4800e-003	0.0183	0.0103	8.0000e-005	3.1000e-003	4.1000e-004	3.5100e-003	9.2000e-004	3.8000e-004	1.3000e-003	0.0000	6.9697	6.9697	4.0000e-005	0.0000	0.0000	6.9705
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.4800e-003</b>	<b>0.0183</b>	<b>0.0103</b>	<b>8.0000e-005</b>	<b>3.1000e-003</b>	<b>4.1000e-004</b>	<b>3.5100e-003</b>	<b>9.2000e-004</b>	<b>3.8000e-004</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>6.9697</b>	<b>6.9697</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.9705</b>

### 3.6 Grind and Cap - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	8.5900e-003	0.0721	0.0696	1.0000e-004		4.8100e-003	4.8100e-003		4.5700e-003	4.5700e-003	0.0000	9.2136	9.2136	2.0300e-003	0.0000	0.0000	9.2562
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.5900e-003</b>	<b>0.0721</b>	<b>0.0696</b>	<b>1.0000e-004</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>		<b>4.5700e-003</b>	<b>4.5700e-003</b>	<b>0.0000</b>	<b>9.2136</b>	<b>9.2136</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.2562</b>

### 3.6 Grind and Cap - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9000e-004	9.9800e-003	6.8000e-003	4.0000e-005	8.4000e-004	1.6000e-004	1.0000e-003	2.3000e-004	1.5000e-004	3.8000e-004	0.0000	3.1414	3.1414	2.0000e-005	0.0000	3.1419
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	4.0000e-005	1.2000e-004	1.0300e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2418	0.2418	1.0000e-005	0.0000	0.2420
<b>Total</b>	<b>7.3000e-004</b>	<b>0.0101</b>	<b>7.8300e-003</b>	<b>4.0000e-005</b>	<b>1.1400e-003</b>	<b>1.6000e-004</b>	<b>1.3000e-003</b>	<b>3.1000e-004</b>	<b>1.5000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>3.3832</b>	<b>3.3832</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.3839</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					
Off-Road	2.3700e-003	0.0519	0.0730	1.0000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	9.2136	9.2136	2.0300e-003	0.0000	9.2562
Paving	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>2.3700e-003</b>	<b>0.0519</b>	<b>0.0730</b>	<b>1.0000e-004</b>		<b>3.3800e-003</b>	<b>3.3800e-003</b>		<b>3.3800e-003</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>9.2136</b>	<b>9.2136</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>9.2562</b>





## 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
Consumer Products	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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000
Consumer Products	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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	62	0.31	Diesel
Cranes	1	10.00	1	226	0.29	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	6	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	4	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	2	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	240	400	0.38	Diesel
Off-Highway Trucks	1	10.00	12	400	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

**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					
Aerial Lifts	3.0000e-005	4.2000e-004	6.7000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0928	0.0928	3.0000e-005	0.0000	0.0934
Cranes	3.1000e-004	3.6700e-003	1.4000e-003	0.0000		1.6000e-004	1.6000e-004		1.4000e-004	1.4000e-004	0.0000	0.3169	0.3169	1.0000e-004	0.0000	0.3190
Off-Highway Trucks	0.1294	1.3100	0.7283	2.4100e-003		0.0476	0.0476		0.0438	0.0438	0.0000	216.1702	216.1702	0.0684	0.0000	217.6065
Tractors/Loaders/Backhoes	1.5000e-004	1.4600e-003	1.4400e-003	0.0000		1.0000e-004	1.0000e-004		9.0000e-005	9.0000e-005	0.0000	0.1744	0.1744	6.0000e-005	0.0000	0.1755
Welders	2.4000e-004	1.0200e-003	1.1300e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1176	0.1176	2.0000e-005	0.0000	0.1181
<b>Total</b>	<b>0.1301</b>	<b>1.3166</b>	<b>0.7329</b>	<b>2.4100e-003</b>		<b>0.0480</b>	<b>0.0480</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>216.8719</b>	<b>216.8719</b>	<b>0.0686</b>	<b>0.0000</b>	<b>218.3124</b>

**10.0 Vegetation**

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**Pipeline Safety & Reliability Project**  
**San Diego County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

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Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume all worker trips are paved, assume average vendor and hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	49.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00





tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/5/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	2/5/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	3/28/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	6/30/2018	4/22/2018
tblConstructionPhase	PhaseEndDate	2/4/2019	4/19/2018
tblConstructionPhase	PhaseEndDate	10/20/2018	6/1/2018
tblConstructionPhase	PhaseEndDate	2/25/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	8/13/2018	7/14/2018
tblConstructionPhase	PhaseEndDate	12/23/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	3/18/2019	4/23/2018
tblConstructionPhase	PhaseEndDate	9/19/2018	9/14/2018
tblConstructionPhase	PhaseStartDate	7/15/2018	10/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	11/26/2018
tblConstructionPhase	PhaseStartDate	4/1/2018	1/4/2018
tblConstructionPhase	PhaseStartDate	4/24/2018	2/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	3/16/2018
tblConstructionPhase	PhaseStartDate	9/15/2018	4/27/2018
tblConstructionPhase	PhaseStartDate	4/23/2018	2/25/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	5/4/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	1/9/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	2/6/2018
tblConstructionPhase	PhaseStartDate	4/20/2018	4/16/2018
tblGrading	AcresOfGrading	612.00	30.10
tblGrading	MaterialExported	0.00	362,326.00



tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	27.00
tblOffRoadEquipment	PhaseName		Grind and Cap



tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	99.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	6.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00



tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	83,912.00	59,003.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,603.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	WorkerTripLength	10.80	40.00
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tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00

tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
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tblTripsAndVMT	WorkerTripNumber	0.00	600.00
tblTripsAndVMT	WorkerTripNumber	530.00	68.00
tblTripsAndVMT	WorkerTripNumber	53.00	3.00
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tblTripsAndVMT	WorkerTripNumber	60.00	3.00
tblTripsAndVMT	WorkerTripNumber	0.00	1.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
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tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
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tblVehicleEF	HHD	0.01	0.01

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tblVehicleEF	HHD	67.15	69.82
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tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.21	4.39
tblVehicleEF	HHD	4.39	4.83
tblVehicleEF	HHD	4.37	4.50
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.0040e-003	2.5020e-003
tblVehicleEF	HHD	9.5760e-003	9.7910e-003
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	1.7890e-003	1.9690e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.54	0.53
tblVehicleEF	HHD	1.6670e-003	1.8090e-003
tblVehicleEF	HHD	0.23	0.23
tblVehicleEF	HHD	0.55	0.61
tblVehicleEF	HHD	2.41	2.64
tblVehicleEF	HHD	5.6000e-003	5.6010e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6930e-003	1.7550e-003

tblVehicleEF	HHD	1.7890e-003	1.9690e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.62	0.60
tblVehicleEF	HHD	1.6670e-003	1.8090e-003
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tblVehicleEF	HHD	0.55	0.61
tblVehicleEF	HHD	2.57	2.82
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.22	2.16
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tblVehicleEF	HHD	572.15	581.58
tblVehicleEF	HHD	1,584.01	1,611.58
tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.34	4.54
tblVehicleEF	HHD	4.23	4.65
tblVehicleEF	HHD	4.16	4.28
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tblVehicleEF	HHD	2.0040e-003	2.5020e-003
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tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	2.7920e-003	3.0800e-003

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tblVehicleEF	HHD	1.98	2.16
tblVehicleEF	HHD	5.9330e-003	5.9340e-003
tblVehicleEF	HHD	0.02	0.02
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tblVehicleEF	HHD	2.7920e-003	3.0800e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.58	0.57
tblVehicleEF	HHD	3.2130e-003	3.5150e-003
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tblVehicleEF	HHD	2.11	2.31
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	4.20	4.09
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tblVehicleEF	HHD	1,584.01	1,611.58
tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.02	4.20
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tblVehicleEF	HHD	4.46	4.59

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tblVehicleEF	HHD	0.07	0.07
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tblVehicleEF	HHD	8.7100e-003	8.7090e-003
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tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	1.4520e-003	1.5750e-003
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tblVehicleEF	HHD	1.6460e-003	1.8240e-003
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.67	0.65
tblVehicleEF	HHD	1.4520e-003	1.5750e-003
tblVehicleEF	HHD	0.26	0.27
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tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.87	0.94

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tblVehicleEF	LDA	255.43	266.09
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
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tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	7.7200e-004	7.7400e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.04	0.04
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tblVehicleEF	LDA	269.94	281.19

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tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
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tblVehicleEF	LDA	3.0150e-003	2.8610e-003
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tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
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tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.14	0.16
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.85	0.93
tblVehicleEF	LDA	2.32	2.51
tblVehicleEF	LDA	252.81	263.35
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51

tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	7.7500e-004	7.7800e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.19	0.20
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.68	1.82
tblVehicleEF	LDT1	4.00	4.33
tblVehicleEF	LDT1	309.85	320.90
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.23	0.25

tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	4.1290e-003	4.1270e-003
tblVehicleEF	LDT1	9.1600e-004	9.2000e-004
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.85	2.00
tblVehicleEF	LDT1	3.01	3.26
tblVehicleEF	LDT1	326.49	338.09
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003

tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	4.3540e-003	4.3530e-003
tblVehicleEF	LDT1	8.9800e-004	9.0100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.26	0.28
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.65	1.79
tblVehicleEF	LDT1	4.37	4.74
tblVehicleEF	LDT1	306.84	317.78
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003

tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	4.0880e-003	4.0870e-003
tblVehicleEF	LDT1	9.2200e-004	9.2700e-004
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.33	0.36
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.01	1.10
tblVehicleEF	LDT2	2.42	2.66
tblVehicleEF	LDT2	378.64	391.32
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003

tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.8450e-003	4.8470e-003
tblVehicleEF	LDT2	1.0450e-003	1.0480e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.12	1.22
tblVehicleEF	LDT2	1.81	2.00
tblVehicleEF	LDT2	399.61	412.98
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.19	0.22
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	5.1160e-003	5.1180e-003
tblVehicleEF	LDT2	1.0340e-003	1.0370e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	0.99	1.08
tblVehicleEF	LDT2	2.65	2.92
tblVehicleEF	LDT2	374.85	387.40
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	4.7960e-003	4.7980e-003
tblVehicleEF	LDT2	1.0490e-003	1.0530e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.64	1.79
tblVehicleEF	LHD1	3.92	4.10
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.32	1.41
tblVehicleEF	LHD1	1.18	1.20
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05

tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.7800e-004	4.8000e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.38	0.40
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.67	1.82

tblVehicleEF	LHD1	3.06	3.21
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.26	1.35
tblVehicleEF	LHD1	1.13	1.15
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.31	0.32
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.6300e-004	4.6500e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.19	0.20
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.62	1.78
tblVehicleEF	LHD1	4.30	4.50
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.31	1.41
tblVehicleEF	LHD1	1.21	1.23
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.37	0.40
tblVehicleEF	LHD1	8.0860e-003	8.0890e-003
tblVehicleEF	LHD1	4.8400e-004	4.8700e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.15
tblVehicleEF	LHD2	1.93	2.06
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.92	2.06
tblVehicleEF	LHD2	0.68	0.69

tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.18	0.19
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8300e-004	2.8400e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.07	1.16
tblVehicleEF	LHD2	1.52	1.62
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.85	1.98
tblVehicleEF	LHD2	0.65	0.66
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.7500e-004	2.7600e-004

tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.14
tblVehicleEF	LHD2	2.12	2.25
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.91	2.06
tblVehicleEF	LHD2	0.69	0.71
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.19	0.20
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8600e-004	2.8700e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	MCY	28.80	29.57
tblVehicleEF	MCY	10.23	10.18
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.24	1.25
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004

tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	2.97	3.00
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	2.2710e-003	2.2680e-003
tblVehicleEF	MCY	6.6000e-004	6.6500e-004
tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	3.24	3.27
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.28	2.29
tblVehicleEF	MCY	27.18	27.88
tblVehicleEF	MCY	8.78	8.76
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12

tblVehicleEF	MCY	2.88	2.90
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.82	1.83
tblVehicleEF	MCY	2.2430e-003	2.2380e-003
tblVehicleEF	MCY	6.2800e-004	6.3300e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	3.14	3.16
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.95	1.96
tblVehicleEF	MCY	29.90	30.70
tblVehicleEF	MCY	10.90	10.84
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.26	1.26
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.02	3.05
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.26	2.28

tblVehicleEF	MCY	2.2900e-003	2.2870e-003
tblVehicleEF	MCY	6.7500e-004	6.8000e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.29	3.32
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.80	1.94
tblVehicleEF	MDV	4.47	4.76
tblVehicleEF	MDV	507.05	522.26
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.41	0.44
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.37	0.39
tblVehicleEF	MDV	6.1860e-003	6.1840e-003

tblVehicleEF	MDV	1.3510e-003	1.3540e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.99	2.13
tblVehicleEF	MDV	3.36	3.58
tblVehicleEF	MDV	534.71	550.71
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.30	0.32
tblVehicleEF	MDV	6.5270e-003	6.5240e-003
tblVehicleEF	MDV	1.3310e-003	1.3340e-003

tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.78	1.91
tblVehicleEF	MDV	4.89	5.20
tblVehicleEF	MDV	502.05	517.12
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	6.1240e-003	6.1230e-003
tblVehicleEF	MDV	1.3580e-003	1.3620e-003
tblVehicleEF	MDV	0.05	0.05

tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.42	0.45
tblVehicleEF	MH	2.54	3.13
tblVehicleEF	MH	7.17	7.80
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.78	0.82
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.87	0.94
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.40	0.44
tblVehicleEF	MH	7.5230e-003	7.5340e-003
tblVehicleEF	MH	4.4000e-004	4.5300e-004
tblVehicleEF	MH	0.87	0.94

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	2.60	3.20
tblVehicleEF	MH	5.48	5.94
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.38	1.47
tblVehicleEF	MH	0.74	0.78
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	1.20	1.30
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.12	0.13
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.34	0.37
tblVehicleEF	MH	7.5240e-003	7.5350e-003
tblVehicleEF	MH	4.1200e-004	4.2100e-004
tblVehicleEF	MH	1.20	1.30

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.36	0.39
tblVehicleEF	MH	2.51	3.10
tblVehicleEF	MH	7.93	8.64
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.79	0.84
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.92	0.99
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	7.5230e-003	7.5330e-003
tblVehicleEF	MH	4.5300e-004	4.6700e-004
tblVehicleEF	MH	0.92	0.99

tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.46	0.51
tblVehicleEF	MHD	7.5130e-003	7.5000e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.87	1.86
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	18.09	19.57
tblVehicleEF	MHD	582.55	590.85
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.15	5.46
tblVehicleEF	MHD	2.29	2.63
tblVehicleEF	MHD	1.90	2.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.2790e-003	2.4930e-003

tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.16	0.16
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.07	1.18
tblVehicleEF	MHD	6.0410e-003	6.0290e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.7600e-004	9.1300e-004
tblVehicleEF	MHD	2.2790e-003	2.4930e-003
tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.18	0.18
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.14	1.27
tblVehicleEF	MHD	7.0810e-003	7.0680e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.36	1.35
tblVehicleEF	MHD	0.90	1.02
tblVehicleEF	MHD	14.01	15.23
tblVehicleEF	MHD	617.16	625.96
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.32	5.63
tblVehicleEF	MHD	2.20	2.52
tblVehicleEF	MHD	1.80	1.92

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.91	1.00
tblVehicleEF	MHD	6.4000e-003	6.3870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.0700e-004	8.4000e-004
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.97	1.07
tblVehicleEF	MHD	8.1110e-003	8.0960e-003

tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	2.58	2.56
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	19.91	21.51
tblVehicleEF	MHD	534.76	542.38
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.92	5.21
tblVehicleEF	MHD	2.29	2.62
tblVehicleEF	MHD	1.94	2.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.14	1.27

tblVehicleEF	MHD	5.5450e-003	5.5340e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.0700e-004	9.4600e-004
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.20	0.20
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.22	1.35
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	2.55	2.48
tblVehicleEF	OBUS	1.49	1.65
tblVehicleEF	OBUS	11.39	12.02
tblVehicleEF	OBUS	545.88	554.85
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.14	5.30
tblVehicleEF	OBUS	2.96	3.28
tblVehicleEF	OBUS	1.61	1.69
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	9.3200e-003	9.4330e-003

tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.44	0.42
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.69	0.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.7700e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.50	0.48
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.74	0.78
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	1.85	1.80
tblVehicleEF	OBUS	1.52	1.68
tblVehicleEF	OBUS	8.89	9.38
tblVehicleEF	OBUS	578.31	587.81
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25

tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.30	5.47
tblVehicleEF	OBUS	2.83	3.13
tblVehicleEF	OBUS	1.53	1.61
tblVehicleEF	OBUS	8.5400e-003	8.6440e-003
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	7.8570e-003	7.9520e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.41	0.40
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.60	0.63
tblVehicleEF	OBUS	5.9970e-003	5.9980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.2300e-004	5.3300e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.45
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004

tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.64	0.67
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	3.51	3.41
tblVehicleEF	OBUS	1.48	1.64
tblVehicleEF	OBUS	12.52	13.20
tblVehicleEF	OBUS	501.09	509.32
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	4.91	5.06
tblVehicleEF	OBUS	2.95	3.27
tblVehicleEF	OBUS	1.64	1.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.46

tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.74	0.77
tblVehicleEF	OBUS	5.1960e-003	5.1970e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.8500e-004	5.9700e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.54	0.52
tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.79	0.83
tblVehicleEF	SBUS	4.3860e-003	4.3220e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.02	0.99
tblVehicleEF	SBUS	4.62	6.19
tblVehicleEF	SBUS	35.49	38.94
tblVehicleEF	SBUS	556.78	563.29
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.66	7.75
tblVehicleEF	SBUS	7.17	7.37
tblVehicleEF	SBUS	2.64	2.69
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.35	2.80
tblVehicleEF	SBUS	5.7740e-003	5.7480e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9360e-003	2.0510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.51	3.00
tblVehicleEF	SBUS	4.1340e-003	4.0730e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	0.74	0.72

tblVehicleEF	SBUS	4.64	6.04
tblVehicleEF	SBUS	29.55	32.78
tblVehicleEF	SBUS	589.86	596.75
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.91	8.00
tblVehicleEF	SBUS	6.88	7.07
tblVehicleEF	SBUS	2.47	2.52
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.41	0.47
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.06	2.43
tblVehicleEF	SBUS	6.1170e-003	6.0890e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	1.8340e-003	1.9430e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.20	2.60
tblVehicleEF	SBUS	4.7350e-003	4.6660e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.41	1.37
tblVehicleEF	SBUS	4.62	6.29
tblVehicleEF	SBUS	38.45	42.02
tblVehicleEF	SBUS	511.10	517.07
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.32	7.40
tblVehicleEF	SBUS	7.15	7.34
tblVehicleEF	SBUS	2.72	2.77
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.49	2.99
tblVehicleEF	SBUS	5.3000e-003	5.2760e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9870e-003	2.1050e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.44	0.52
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.66	3.20
tblVehicleEF	UBUS	3.05	3.27
tblVehicleEF	UBUS	5.69	5.79
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.19	11.63
tblVehicleEF	UBUS	0.89	0.88
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004

tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.52	0.53
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.5800e-004	3.6100e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.56	0.56
tblVehicleEF	UBUS	3.08	3.29
tblVehicleEF	UBUS	4.68	4.77
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	10.79	11.22
tblVehicleEF	UBUS	0.84	0.84
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003

tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.46	0.47
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.4100e-004	3.4400e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.50	0.50
tblVehicleEF	UBUS	3.04	3.26
tblVehicleEF	UBUS	6.13	6.23
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.14	11.58
tblVehicleEF	UBUS	0.91	0.90
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.59	0.61

tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.6600e-004	3.6900e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.66	0.69
tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.58	0.59

## 2.0 Emissions Summary

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Offroad	19.0982	191.9810	108.7083	0.3449		7.1552	7.1552		6.5928	6.5928		34,077.46 16	34,077.46 16	10.7431		34,303.06 56
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.46 16</b>	<b>34,077.46 16</b>	<b>10.7431</b>		<b>34,303.06 56</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Offroad	19.0982	191.9810	108.7083	0.3449		7.1552	7.1552		6.5928	6.5928		34,077.46 16	34,077.46 16	10.7431		34,303.06 56
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.46 16</b>	<b>34,077.46 16</b>	<b>10.7431</b>		<b>34,303.06 56</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
<b>Percent Reduction</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mobilize	Building Construction	1/4/2018	3/31/2018	6	75	
2	Worker Trips	Building Construction	1/4/2018	12/31/2018	6	310	
3	Pipe Installation	Site Preparation	1/9/2018	12/31/2018	6	306	
4	Augur Bore 1	Trenching	2/6/2018	4/23/2018	6	66	
5	Civil Work 1	Building Construction	2/13/2018	4/22/2018	6	59	
6	Grind and Cap	Paving	2/25/2018	12/31/2018	6	265	
7	Demobilize 1	Building Construction	3/16/2018	4/19/2018	6	30	
8	HDD	Trenching	4/16/2018	9/14/2018	6	131	
9	Civil Work 2	Building Construction	4/27/2018	6/1/2018	6	31	
10	Augur Bore 2	Trenching	5/4/2018	7/14/2018	6	62	
11	Hydrotest	Building Construction	10/10/2018	12/31/2018	6	71	
12	Demobilize 2	Building Construction	11/26/2018	12/31/2018	6	31	

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
Mobilize	Cranes	0	4.00	226	0.29
Mobilize	Forklifts	0	6.00	89	0.20
Mobilize	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Worker Trips	Cranes	0	4.00	226	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Air Compressors	28	6.00	78	0.48
Pipe Installation	Concrete/Industrial Saws	8	5.00	81	0.73
Pipe Installation	Cranes	5	7.00	226	0.29
Pipe Installation	Crawler Tractors	3	8.00	208	0.43
Augur Bore 1	Air Compressors	3	5.00	78	0.48
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Pipe Installation	Excavators	18	7.00	162	0.38
Pipe Installation	Excavators	10	7.00	162	0.38
Hydrotest	Excavators	2	6.00	162	0.38
Pipe Installation	Off-Highway Trucks	0	6.00	174	0.41
Pipe Installation	Off-Highway Trucks	5	8.00	400	0.38
Pipe Installation	Off-Highway Trucks	5	6.00	400	0.38
Pipe Installation	Graders	1	8.00	174	0.41
Pipe Installation	Other General Industrial Equipment	5	6.00	87	0.34
Pipe Installation	Rough Terrain Forklifts	5	6.00	100	0.40
Pipe Installation	Rubber Tired Loaders	3	8.00	199	0.36
Pipe Installation	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Pipe Installation	Welders	40	7.00	46	0.45
Augur Bore 1	Bore/Drill Rigs	3	5.00	205	0.50
Augur Bore 1	Cranes	3	6.00	226	0.29
Augur Bore 1	Cranes	3	6.00	226	0.29
Augur Bore 1	Off-Highway Trucks	3	5.00	400	0.38
Augur Bore 1	Welders	6	6.00	46	0.45

Civil Work 1	Air Compressors	4	5.00	78	0.48
Civil Work 1	Cranes	0	4.00	226	0.29
Civil Work 1	Forklifts	0	6.00	89	0.20
Civil Work 1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Civil Work 1	Tractors/Loaders/Backhoes	0	5.00	97	0.37
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	7.00	125	0.42
Grind and Cap	Paving Equipment	4	5.00	130	0.36
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Demobilize 1	Cranes	0	4.00	226	0.29
Demobilize 1	Cranes	0	12.00	226	0.29
Demobilize 1	Forklifts	0	6.00	89	0.20
Demobilize 1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
HDD	Bore/Drill Rigs	3	7.00	205	0.50
HDD	Cranes	3	6.00	226	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	171	0.42
HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40
Civil Work 2	Air Compressors	1	6.00	78	0.48
Civil Work 2	Cranes	0	4.00	226	0.29
Civil Work 2	Forklifts	0	6.00	89	0.20
Civil Work 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Civil Work 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Augur Bore 2	Bore/Drill Rigs	1	6.00	205	0.50
Augur Bore 2	Cranes	1	7.00	226	0.29
Augur Bore 2	Cranes	1	7.00	226	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	400	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hydrotest	Welders	4	7.00	46	0.45
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Cranes	0	10.00	226	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Air Compressors	10	6.00	78	0.48
Pipe Installation	Other Material Handling Equipment	1	1.00	75	0.40
Pipe Installation	Excavators	5	6.00	162	0.38
Pipe Installation	Excavators	10	6.00	162	0.38
Pipe Installation	Generator Sets	10	8.00	84	0.74
Pipe Installation	Bore/Drill Rigs	5	7.00	205	0.50
Pipe Installation	Rollers	4	6.00	80	0.38

**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
Mobilize	0	0.00	15.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	1.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Hydrotest	12	2.00	6.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	30.00	30.00	LD_Mix	MHDT	HHDT
Pipe Installation	212	68.00	121.00	59,003.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 1	21	3.00	9.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 1	4	4.00	4.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	2,603.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 1	0	0.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	3.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 2	1	1.00	1.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Mobilize - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2836	3.5945	1.9015	0.0143	9.3920	0.0846	9.4767	1.0471	0.0779	1.1249		1,397.4450	1,397.4450	8.7500e-003			1,397.6287
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.2836</b>	<b>3.5945</b>	<b>1.9015</b>	<b>0.0143</b>	<b>9.3920</b>	<b>0.0846</b>	<b>9.4767</b>	<b>1.0471</b>	<b>0.0779</b>	<b>1.1249</b>		<b>1,397.4450</b>	<b>1,397.4450</b>	<b>8.7500e-003</b>			<b>1,397.6287</b>

**3.2 Mobilize - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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>	<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 Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2836	3.5945	1.9015	0.0143	2.9944	0.0846	3.0790	0.4084	0.0779	0.4862		1,397.4450	1,397.4450	8.7500e-003		1,397.6287
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.2836</b>	<b>3.5945</b>	<b>1.9015</b>	<b>0.0143</b>	<b>2.9944</b>	<b>0.0846</b>	<b>3.0790</b>	<b>0.4084</b>	<b>0.0779</b>	<b>0.4862</b>		<b>1,397.4450</b>	<b>1,397.4450</b>	<b>8.7500e-003</b>		<b>1,397.6287</b>

### 3.3 Worker Trips - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3643	4.4166	2.5025	0.0173	11.2706	0.1019	11.3725	1.2566	0.0937	1.3503		1,687.2904	1,687.2904	0.0106			1,687.5130
Worker	2.5920	5.2371	55.7978	0.1704	13.6808	0.0891	13.7698	3.6274	0.0824	3.7098		13,161.7035	13,161.7035	0.5922			13,174.1402
<b>Total</b>	<b>2.9563</b>	<b>9.6537</b>	<b>58.3003</b>	<b>0.1877</b>	<b>24.9513</b>	<b>0.1910</b>	<b>25.1423</b>	<b>4.8840</b>	<b>0.1762</b>	<b>5.0601</b>		<b>14,848.9939</b>	<b>14,848.9939</b>	<b>0.6028</b>			<b>14,861.6532</b>

### 3.3 Worker Trips - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.0000	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>	<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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3643	4.4166	2.5025	0.0173	3.5934	0.1019	3.6953	0.4901	0.0937	0.5838		1,687.2904	1,687.2904	0.0106			1,687.5130
Worker	2.5920	5.2371	55.7978	0.1704	13.6808	0.0891	13.7698	3.6274	0.0824	3.7098		13,161.7035	13,161.7035	0.5922			13,174.1402
<b>Total</b>	<b>2.9563</b>	<b>9.6537</b>	<b>58.3003</b>	<b>0.1877</b>	<b>17.2742</b>	<b>0.1910</b>	<b>17.4651</b>	<b>4.1175</b>	<b>0.1762</b>	<b>4.2937</b>		<b>14,848.9939</b>	<b>14,848.9939</b>	<b>0.6028</b>			<b>14,861.6532</b>

### 3.4 Pipe Installation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4126	0.0000	0.4126	0.0579	0.0000	0.0579			0.0000			0.0000
Off-Road	68.0962	562.0281	459.9438	0.8146		31.4811	31.4811		30.0546	30.0546		78,982.23 12	78,982.23 12	19.2239		79,385.93 34
<b>Total</b>	<b>68.0962</b>	<b>562.0281</b>	<b>459.9438</b>	<b>0.8146</b>	<b>0.4126</b>	<b>31.4811</b>	<b>31.8937</b>	<b>0.0579</b>	<b>30.0546</b>	<b>30.1126</b>		<b>78,982.23 12</b>	<b>78,982.23 12</b>	<b>19.2239</b>		<b>79,385.93 34</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4293	83.0242	47.8666	0.2836	120.1814	1.2727	121.4540	13.1528	1.1708	14.3236		27,741.67 02	27,741.67 02	0.1877		27,745.61 14
Vendor	2.2877	28.9956	15.3389	0.1157	75.7623	0.6827	76.4450	8.4465	0.6280	9.0745		11,272.72 31	11,272.72 31	0.0706		11,274.20 52
Worker	0.3442	0.7822	8.3165	0.0257	2.0671	0.0133	2.0804	0.5481	0.0123	0.5603		1,983.923 4	1,983.923 4	0.0888		1,985.788 5
<b>Total</b>	<b>8.0612</b>	<b>112.8019</b>	<b>71.5220</b>	<b>0.4250</b>	<b>198.0107</b>	<b>1.9686</b>	<b>199.9794</b>	<b>22.1473</b>	<b>1.8111</b>	<b>23.9584</b>		<b>40,998.31 67</b>	<b>40,998.31 67</b>	<b>0.3471</b>		<b>41,005.60 51</b>

### 3.4 Pipe Installation - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1857	0.0000	0.1857	0.0261	0.0000	0.0261			0.0000			0.0000
Off-Road	20.5643	408.3505	522.7132	0.8146		22.6624	22.6624		22.6624	22.6624	0.0000	78,982.23 11	78,982.23 11	19.2239		79,385.93 33
<b>Total</b>	<b>20.5643</b>	<b>408.3505</b>	<b>522.7132</b>	<b>0.8146</b>	<b>0.1857</b>	<b>22.6624</b>	<b>22.8480</b>	<b>0.0261</b>	<b>22.6624</b>	<b>22.6885</b>	<b>0.0000</b>	<b>78,982.23 11</b>	<b>78,982.23 11</b>	<b>19.2239</b>		<b>79,385.93 33</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	lb/day										lb/day					
Hauling	5.4293	83.0242	47.8666	0.2836	37.9417	1.2727	39.2143	4.9426	1.1708	6.1133		27,741.67 02	27,741.67 02	0.1877		27,745.61 14
Vendor	2.2877	28.9956	15.3389	0.1157	24.1546	0.6827	24.8373	3.2943	0.6280	3.9224		11,272.72 31	11,272.72 31	0.0706		11,274.20 52
Worker	0.3442	0.7822	8.3165	0.0257	2.0671	0.0133	2.0804	0.5481	0.0123	0.5603		1,983.923 4	1,983.923 4	0.0888		1,985.788 5
<b>Total</b>	<b>8.0612</b>	<b>112.8019</b>	<b>71.5220</b>	<b>0.4250</b>	<b>64.1634</b>	<b>1.9686</b>	<b>66.1320</b>	<b>8.7849</b>	<b>1.8111</b>	<b>10.5960</b>		<b>40,998.31 67</b>	<b>40,998.31 67</b>	<b>0.3471</b>		<b>41,005.60 51</b>

**3.5 Augur Bore 1 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.2138	65.4422	35.5807	0.0853		2.9602	2.9602		2.7943	2.7943		8,316.5070	8,316.5070	2.3253		8,365.3376
<b>Total</b>	<b>7.2138</b>	<b>65.4422</b>	<b>35.5807</b>	<b>0.0853</b>		<b>2.9602</b>	<b>2.9602</b>		<b>2.7943</b>	<b>2.7943</b>		<b>8,316.5070</b>	<b>8,316.5070</b>	<b>2.3253</b>		<b>8,365.3376</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1702	2.1567	1.1409	8.6100e-003	5.6352	0.0508	5.6860	0.6283	0.0467	0.6750		838.4670	838.4670	5.2500e-003		838.5773
Worker	0.0152	0.0345	0.3669	1.1300e-003	0.0912	5.9000e-004	0.0918	0.0242	5.4000e-004	0.0247		87.5260	87.5260	3.9200e-003		87.6083
<b>Total</b>	<b>0.1853</b>	<b>2.1912</b>	<b>1.5078</b>	<b>9.7400e-003</b>	<b>5.7264</b>	<b>0.0514</b>	<b>5.7778</b>	<b>0.6524</b>	<b>0.0473</b>	<b>0.6997</b>		<b>925.9930</b>	<b>925.9930</b>	<b>9.1700e-003</b>		<b>926.1856</b>

**3.5 Augur Bore 1 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2592	42.5923	46.7232	0.0853		1.8961	1.8961		1.8961	1.8961	0.0000	8,316.5070	8,316.5070	2.3253		8,365.3376
<b>Total</b>	<b>2.2592</b>	<b>42.5923</b>	<b>46.7232</b>	<b>0.0853</b>		<b>1.8961</b>	<b>1.8961</b>		<b>1.8961</b>	<b>1.8961</b>	<b>0.0000</b>	<b>8,316.5070</b>	<b>8,316.5070</b>	<b>2.3253</b>		<b>8,365.3376</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1702	2.1567	1.1409	8.6100e-003	1.7966	0.0508	1.8474	0.2450	0.0467	0.2917		838.4670	838.4670	5.2500e-003		838.5773
Worker	0.0152	0.0345	0.3669	1.1300e-003	0.0912	5.9000e-004	0.0918	0.0242	5.4000e-004	0.0247		87.5260	87.5260	3.9200e-003		87.6083
<b>Total</b>	<b>0.1853</b>	<b>2.1912</b>	<b>1.5078</b>	<b>9.7400e-003</b>	<b>1.8878</b>	<b>0.0514</b>	<b>1.9392</b>	<b>0.2692</b>	<b>0.0473</b>	<b>0.3165</b>		<b>925.9930</b>	<b>925.9930</b>	<b>9.1700e-003</b>		<b>926.1856</b>

**3.6 Civil Work 1 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9955	6.6858	6.1807	9.9000e-003		0.5019	0.5019		0.5019	0.5019		938.1618	938.1618	0.0891		940.0338
<b>Total</b>	<b>0.9955</b>	<b>6.6858</b>	<b>6.1807</b>	<b>9.9000e-003</b>		<b>0.5019</b>	<b>0.5019</b>		<b>0.5019</b>	<b>0.5019</b>		<b>938.1618</b>	<b>938.1618</b>	<b>0.0891</b>		<b>940.0338</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0756	0.9585	0.5071	3.8300e-003	2.5045	0.0226	2.5271	0.2792	0.0208	0.3000		372.6520	372.6520	2.3300e-003		372.7010
Worker	0.0203	0.0460	0.4892	1.5100e-003	0.1216	7.8000e-004	0.1224	0.0322	7.2000e-004	0.0330		116.7014	116.7014	5.2200e-003		116.8111
<b>Total</b>	<b>0.0959</b>	<b>1.0045</b>	<b>0.9963</b>	<b>5.3400e-003</b>	<b>2.6261</b>	<b>0.0234</b>	<b>2.6495</b>	<b>0.3115</b>	<b>0.0215</b>	<b>0.3329</b>		<b>489.3534</b>	<b>489.3534</b>	<b>7.5500e-003</b>		<b>489.5121</b>

**3.6 Civil Work 1 - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1981	4.5233	6.1080	9.9000e-003		0.3170	0.3170		0.3170	0.3170	0.0000	938.1618	938.1618	0.0891		940.0338
<b>Total</b>	<b>0.1981</b>	<b>4.5233</b>	<b>6.1080</b>	<b>9.9000e-003</b>		<b>0.3170</b>	<b>0.3170</b>		<b>0.3170</b>	<b>0.3170</b>	<b>0.0000</b>	<b>938.1618</b>	<b>938.1618</b>	<b>0.0891</b>		<b>940.0338</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0756	0.9585	0.5071	3.8300e-003	0.7985	0.0226	0.8211	0.1089	0.0208	0.1297		372.6520	372.6520	2.3300e-003		372.7010
Worker	0.0203	0.0460	0.4892	1.5100e-003	0.1216	7.8000e-004	0.1224	0.0322	7.2000e-004	0.0330		116.7014	116.7014	5.2200e-003		116.8111
<b>Total</b>	<b>0.0959</b>	<b>1.0045</b>	<b>0.9963</b>	<b>5.3400e-003</b>	<b>0.9201</b>	<b>0.0234</b>	<b>0.9434</b>	<b>0.1411</b>	<b>0.0215</b>	<b>0.1626</b>		<b>489.3534</b>	<b>489.3534</b>	<b>7.5500e-003</b>		<b>489.5121</b>

### 3.7 Grind and Cap - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8328	32.0383	28.0899	0.0418		2.2215	2.2215		2.1102	2.1102		4,101.9015	4,101.9015	0.9118		4,121.0493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>3.8328</b>	<b>32.0383</b>	<b>28.0899</b>	<b>0.0418</b>		<b>2.2215</b>	<b>2.2215</b>		<b>2.1102</b>	<b>2.1102</b>		<b>4,101.9015</b>	<b>4,101.9015</b>	<b>0.9118</b>		<b>4,121.0493</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2766	4.2294	2.4384	0.0145	6.1223	0.0648	6.1871	0.6700	0.0596	0.7297		1,413.2150	1,413.2150	9.5600e-003		1,413.4158
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0203	0.0460	0.4892	1.5100e-003	0.1216	7.8000e-004	0.1224	0.0322	7.2000e-004	0.0330		116.7014	116.7014	5.2200e-003		116.8111
<b>Total</b>	<b>0.2968</b>	<b>4.2754</b>	<b>2.9276</b>	<b>0.0160</b>	<b>6.2439</b>	<b>0.0656</b>	<b>6.3095</b>	<b>0.7023</b>	<b>0.0604</b>	<b>0.7626</b>		<b>1,529.9164</b>	<b>1,529.9164</b>	<b>0.0148</b>		<b>1,530.2268</b>

**3.7 Grind and Cap - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9472	20.7613	29.2057	0.0418		1.3505	1.3505		1.3505	1.3505	0.0000	4,101.9015	4,101.9015	0.9118		4,121.0493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9472</b>	<b>20.7613</b>	<b>29.2057</b>	<b>0.0418</b>		<b>1.3505</b>	<b>1.3505</b>		<b>1.3505</b>	<b>1.3505</b>	<b>0.0000</b>	<b>4,101.9015</b>	<b>4,101.9015</b>	<b>0.9118</b>		<b>4,121.0493</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	lb/day										lb/day					
Hauling	0.2766	4.2294	2.4384	0.0145	1.9328	0.0648	1.9977	0.2518	0.0596	0.3114		1,413.2150	1,413.2150	9.5600e-003		1,413.4158
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0203	0.0460	0.4892	1.5100e-003	0.1216	7.8000e-004	0.1224	0.0322	7.2000e-004	0.0330		116.7014	116.7014	5.2200e-003		116.8111
<b>Total</b>	<b>0.2968</b>	<b>4.2754</b>	<b>2.9276</b>	<b>0.0160</b>	<b>2.0544</b>	<b>0.0656</b>	<b>2.1200</b>	<b>0.2840</b>	<b>0.0604</b>	<b>0.3444</b>		<b>1,529.9164</b>	<b>1,529.9164</b>	<b>0.0148</b>		<b>1,530.2268</b>

**3.8 Demobilize 1 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0567	0.7189	0.3803	2.8700e-003	1.8784	0.0169	1.8953	0.2094	0.0156	0.2250		279.4890	279.4890	1.7500e-003		279.5258
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0567</b>	<b>0.7189</b>	<b>0.3803</b>	<b>2.8700e-003</b>	<b>1.8784</b>	<b>0.0169</b>	<b>1.8953</b>	<b>0.2094</b>	<b>0.0156</b>	<b>0.2250</b>		<b>279.4890</b>	<b>279.4890</b>	<b>1.7500e-003</b>		<b>279.5258</b>

### 3.8 Demobilize 1 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.0000	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>	<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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0567	0.7189	0.3803	2.8700e-003	0.5989	0.0169	0.6158	0.0817	0.0156	0.0973		279.4890	279.4890	1.7500e-003			279.5258
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.0567</b>	<b>0.7189</b>	<b>0.3803</b>	<b>2.8700e-003</b>	<b>0.5989</b>	<b>0.0169</b>	<b>0.6158</b>	<b>0.0817</b>	<b>0.0156</b>	<b>0.0973</b>		<b>279.4890</b>	<b>279.4890</b>	<b>1.7500e-003</b>			<b>279.5258</b>

**3.9 HDD - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	8.4512	82.2175	59.9161	0.1173		4.3994	4.3994		4.2434	4.2434		11,457.1792	11,457.1792	2.2397		11,504.2121
<b>Total</b>	<b>8.4512</b>	<b>82.2175</b>	<b>59.9161</b>	<b>0.1173</b>		<b>4.3994</b>	<b>4.3994</b>		<b>4.2434</b>	<b>4.2434</b>		<b>11,457.1792</b>	<b>11,457.1792</b>	<b>2.2397</b>		<b>11,504.2121</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0567	0.7189	0.3803	2.8700e-003	1.8784	0.0169	1.8953	0.2094	0.0156	0.2250		279.4890	279.4890	1.7500e-003		279.5258
Worker	0.0152	0.0345	0.3669	1.1300e-003	0.0912	5.9000e-004	0.0918	0.0242	5.4000e-004	0.0247		87.5260	87.5260	3.9200e-003		87.6083
<b>Total</b>	<b>0.0719</b>	<b>0.7534</b>	<b>0.7472</b>	<b>4.0000e-003</b>	<b>1.9696</b>	<b>0.0175</b>	<b>1.9871</b>	<b>0.2336</b>	<b>0.0161</b>	<b>0.2497</b>		<b>367.0150</b>	<b>367.0150</b>	<b>5.6700e-003</b>		<b>367.1341</b>

**3.9 HDD - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6233	55.4170	72.8046	0.1173		3.1673	3.1673		3.1673	3.1673	0.0000	11,457.1792	11,457.1792	2.2397		11,504.2121
<b>Total</b>	<b>2.6233</b>	<b>55.4170</b>	<b>72.8046</b>	<b>0.1173</b>		<b>3.1673</b>	<b>3.1673</b>		<b>3.1673</b>	<b>3.1673</b>	<b>0.0000</b>	<b>11,457.1792</b>	<b>11,457.1792</b>	<b>2.2397</b>		<b>11,504.2121</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0567	0.7189	0.3803	2.8700e-003	0.5989	0.0169	0.6158	0.0817	0.0156	0.0973		279.4890	279.4890	1.7500e-003		279.5258
Worker	0.0152	0.0345	0.3669	1.1300e-003	0.0912	5.9000e-004	0.0918	0.0242	5.4000e-004	0.0247		87.5260	87.5260	3.9200e-003		87.6083
<b>Total</b>	<b>0.0719</b>	<b>0.7534</b>	<b>0.7472</b>	<b>4.0000e-003</b>	<b>0.6901</b>	<b>0.0175</b>	<b>0.7076</b>	<b>0.1059</b>	<b>0.0161</b>	<b>0.1220</b>		<b>367.0150</b>	<b>367.0150</b>	<b>5.6700e-003</b>		<b>367.1341</b>

**3.10 Civil Work 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>0.2986</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0189	0.2396	0.1268	9.6000e-004	0.6261	5.6400e-003	0.6318	0.0698	5.1900e-003	0.0750		93.1630	93.1630	5.8000e-004		93.1753
Worker	5.0600e-003	0.0115	0.1223	3.8000e-004	0.0304	2.0000e-004	0.0306	8.0600e-003	1.8000e-004	8.2400e-003		29.1753	29.1753	1.3100e-003		29.2028
<b>Total</b>	<b>0.0240</b>	<b>0.2511</b>	<b>0.2491</b>	<b>1.3400e-003</b>	<b>0.6565</b>	<b>5.8400e-003</b>	<b>0.6624</b>	<b>0.0779</b>	<b>5.3700e-003</b>	<b>0.0832</b>		<b>122.3383</b>	<b>122.3383</b>	<b>1.8900e-003</b>		<b>122.3780</b>

**3.10 Civil Work 2 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>0.0594</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0189	0.2396	0.1268	9.6000e-004	0.1996	5.6400e-003	0.2053	0.0272	5.1900e-003	0.0324		93.1630	93.1630	5.8000e-004		93.1753
Worker	5.0600e-003	0.0115	0.1223	3.8000e-004	0.0304	2.0000e-004	0.0306	8.0600e-003	1.8000e-004	8.2400e-003		29.1753	29.1753	1.3100e-003		29.2028
<b>Total</b>	<b>0.0240</b>	<b>0.2511</b>	<b>0.2491</b>	<b>1.3400e-003</b>	<b>0.2300</b>	<b>5.8400e-003</b>	<b>0.2359</b>	<b>0.0353</b>	<b>5.3700e-003</b>	<b>0.0407</b>		<b>122.3383</b>	<b>122.3383</b>	<b>1.8900e-003</b>		<b>122.3780</b>

### 3.11 Augur Bore 2 - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8355	25.7591	14.0160	0.0337		1.1640	1.1640		1.0988	1.0988		3,287.8274	3,287.8274	0.9193		3,307.1322
<b>Total</b>	<b>2.8355</b>	<b>25.7591</b>	<b>14.0160</b>	<b>0.0337</b>		<b>1.1640</b>	<b>1.1640</b>		<b>1.0988</b>	<b>1.0988</b>		<b>3,287.8274</b>	<b>3,287.8274</b>	<b>0.9193</b>		<b>3,307.1322</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0567	0.7189	0.3803	2.8700e-003	1.8784	0.0169	1.8953	0.2094	0.0156	0.2250		279.4890	279.4890	1.7500e-003		279.5258
Worker	5.0600e-003	0.0115	0.1223	3.8000e-004	0.0304	2.0000e-004	0.0306	8.0600e-003	1.8000e-004	8.2400e-003		29.1753	29.1753	1.3100e-003		29.2028
<b>Total</b>	<b>0.0618</b>	<b>0.7304</b>	<b>0.5026</b>	<b>3.2500e-003</b>	<b>1.9088</b>	<b>0.0171</b>	<b>1.9259</b>	<b>0.2175</b>	<b>0.0158</b>	<b>0.2332</b>		<b>308.6643</b>	<b>308.6643</b>	<b>3.0600e-003</b>		<b>308.7285</b>

**3.11 Augur Bore 2 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8914	16.8183	18.4642	0.0337		0.7482	0.7482		0.7482	0.7482	0.0000	3,287.8274	3,287.8274	0.9193		3,307.1322
<b>Total</b>	<b>0.8914</b>	<b>16.8183</b>	<b>18.4642</b>	<b>0.0337</b>		<b>0.7482</b>	<b>0.7482</b>		<b>0.7482</b>	<b>0.7482</b>	<b>0.0000</b>	<b>3,287.8274</b>	<b>3,287.8274</b>	<b>0.9193</b>		<b>3,307.1322</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0567	0.7189	0.3803	2.8700e-003	0.5989	0.0169	0.6158	0.0817	0.0156	0.0973		279.4890	279.4890	1.7500e-003		279.5258
Worker	5.0600e-003	0.0115	0.1223	3.8000e-004	0.0304	2.0000e-004	0.0306	8.0600e-003	1.8000e-004	8.2400e-003		29.1753	29.1753	1.3100e-003		29.2028
<b>Total</b>	<b>0.0618</b>	<b>0.7304</b>	<b>0.5026</b>	<b>3.2500e-003</b>	<b>0.6293</b>	<b>0.0171</b>	<b>0.6464</b>	<b>0.0897</b>	<b>0.0158</b>	<b>0.1055</b>		<b>308.6643</b>	<b>308.6643</b>	<b>3.0600e-003</b>		<b>308.7285</b>

### 3.12 Hydrotect - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.6306	34.4827	27.0155	0.0454		1.9853	1.9853		1.9263	1.9263		4,286.2909	4,286.2909	0.8467		4,304.0712
<b>Total</b>	<b>4.6306</b>	<b>34.4827</b>	<b>27.0155</b>	<b>0.0454</b>		<b>1.9853</b>	<b>1.9853</b>		<b>1.9263</b>	<b>1.9263</b>		<b>4,286.2909</b>	<b>4,286.2909</b>	<b>0.8467</b>		<b>4,304.0712</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1134	1.4378	0.7606	5.7400e-003	3.7568	0.0339	3.7907	0.4188	0.0311	0.4500		558.9780	558.9780	3.5000e-003		559.0515
Worker	0.0101	0.0230	0.2446	7.6000e-004	0.0608	3.9000e-004	0.0612	0.0161	3.6000e-004	0.0165		58.3507	58.3507	2.6100e-003		58.4055
<b>Total</b>	<b>0.1236</b>	<b>1.4608</b>	<b>1.0052</b>	<b>6.5000e-003</b>	<b>3.8176</b>	<b>0.0342</b>	<b>3.8519</b>	<b>0.4350</b>	<b>0.0315</b>	<b>0.4665</b>		<b>617.3287</b>	<b>617.3287</b>	<b>6.1100e-003</b>		<b>617.4570</b>

### 3.12 Hydrotect - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1820	22.9065	28.0324	0.0454		1.3147	1.3147		1.3147	1.3147	0.0000	4,286.2909	4,286.2909	0.8467		4,304.0712
<b>Total</b>	<b>1.1820</b>	<b>22.9065</b>	<b>28.0324</b>	<b>0.0454</b>		<b>1.3147</b>	<b>1.3147</b>		<b>1.3147</b>	<b>1.3147</b>	<b>0.0000</b>	<b>4,286.2909</b>	<b>4,286.2909</b>	<b>0.8467</b>		<b>4,304.0712</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1134	1.4378	0.7606	5.7400e-003	1.1978	0.0339	1.2316	0.1634	0.0311	0.1945		558.9780	558.9780	3.5000e-003		559.0515
Worker	0.0101	0.0230	0.2446	7.6000e-004	0.0608	3.9000e-004	0.0612	0.0161	3.6000e-004	0.0165		58.3507	58.3507	2.6100e-003		58.4055
<b>Total</b>	<b>0.1236</b>	<b>1.4608</b>	<b>1.0052</b>	<b>6.5000e-003</b>	<b>1.2586</b>	<b>0.0342</b>	<b>1.2928</b>	<b>0.1795</b>	<b>0.0315</b>	<b>0.2110</b>		<b>617.3287</b>	<b>617.3287</b>	<b>6.1100e-003</b>		<b>617.4570</b>

**3.13 Demobilize 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2269	2.8756	1.5212	0.0115	7.5136	0.0677	7.5813	0.8377	0.0623	0.9000		1,117.9560	1,117.9560	7.0000e-003			1,118.1030
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.2269</b>	<b>2.8756</b>	<b>1.5212</b>	<b>0.0115</b>	<b>7.5136</b>	<b>0.0677</b>	<b>7.5813</b>	<b>0.8377</b>	<b>0.0623</b>	<b>0.9000</b>		<b>1,117.9560</b>	<b>1,117.9560</b>	<b>7.0000e-003</b>			<b>1,118.1030</b>

### 3.13 Demobilize 2 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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>	<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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2269	2.8756	1.5212	0.0115	2.3955	0.0677	2.4632	0.3267	0.0623	0.3890		1,117.9560	1,117.9560	7.0000e-003		1,118.1030
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.2269</b>	<b>2.8756</b>	<b>1.5212</b>	<b>0.0115</b>	<b>2.3955</b>	<b>0.0677</b>	<b>2.4632</b>	<b>0.3267</b>	<b>0.0623</b>	<b>0.3890</b>		<b>1,117.9560</b>	<b>1,117.9560</b>	<b>7.0000e-003</b>		<b>1,118.1030</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

#### 5.0 Energy Detail

#### 5.1 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

#### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	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

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	62	0.31	Diesel
Cranes	1	10.00	1	226	0.29	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	6	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	4	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	2	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	240	400	0.38	Diesel
Off-Highway Trucks	1	10.00	12	400	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

**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	lb/day										lb/day					
Aerial Lifts	0.0501	0.8375	1.3443	2.0700e-003		0.0206	0.0206		0.0189	0.0189		204.4937	204.4937	0.0647		205.8524
Cranes	0.6164	7.3462	2.8043	7.0500e-003		0.3114	0.3114		0.2865	0.2865		698.5584	698.5584	0.2210		703.1997
Off-Highway Trucks	17.6593	178.8452	99.4225	0.3287		6.5036	6.5036		5.9834	5.9834		32,530.6350	32,530.6350	10.2924		32,746.7743
Tractors/Loaders/Backhoes	0.2910	2.9217	2.8784	3.8800e-003		0.1951	0.1951		0.1795	0.1795		384.4273	384.4273	0.1216		386.9815
Welders	0.4815	2.0303	2.2590	3.1900e-003		0.1246	0.1246		0.1246	0.1246		259.3472	259.3472	0.0434		260.2576
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.4616</b>	<b>34,077.4616</b>	<b>10.7431</b>		<b>34,303.0656</b>

**10.0 Vegetation**

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**Pipeline Safety & Reliability Project**  
**San Diego County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume all trips are paved.

Grading - Total Area Disturbed = 0, all work will be done in urban areas within pavement

Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	40.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	45.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00



tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	14.00
tblConstructionPhase	NumDays	0.00	14.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/22/2019	1/5/2019
tblConstructionPhase	PhaseEndDate	1/22/2019	1/16/2019
tblConstructionPhase	PhaseEndDate	2/1/2019	1/16/2019
tblConstructionPhase	PhaseEndDate	1/22/2019	1/5/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	1/6/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblGrading	AcresOfGrading	21.00	0.00
tblGrading	MaterialExported	0.00	16,525.00
tblGrading	MaterialImported	0.00	14,091.00
tblOffRoadEquipment	HorsePower	167.00	75.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.34	0.34

tbloffRoadEquipment	LoadFactor	0.43	0.43
tbloffRoadEquipment	LoadFactor	0.38	0.38
tbloffRoadEquipment	LoadFactor	0.38	0.38
tbloffRoadEquipment	LoadFactor	0.40	0.40
tbloffRoadEquipment	LoadFactor	0.40	0.40
tbloffRoadEquipment	LoadFactor	0.38	0.38
tbloffRoadEquipment	LoadFactor	0.38	0.38
tbloffRoadEquipment	LoadFactor	0.29	0.29
tbloffRoadEquipment	LoadFactor	0.50	0.50
tbloffRoadEquipment	LoadFactor	0.38	0.38
tbloffRoadEquipment	LoadFactor	0.46	0.46
tbloffRoadEquipment	LoadFactor	0.36	0.36
tbloffRoadEquipment	LoadFactor	0.29	0.29
tbloffRoadEquipment	LoadFactor	0.38	0.38
tbloffRoadEquipment	LoadFactor	0.29	0.29
tbloffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tbloffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tbloffRoadEquipment	OffRoadEquipmentType		Rollers
tbloffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tbloffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tbloffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tbloffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Excavators

tbloffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tbloffRoadEquipment	OffRoadEquipmentType		Other Material Handling Equipment
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Generator Sets
tbloffRoadEquipment	OffRoadEquipmentType		Cranes
tbloffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tbloffRoadEquipment	OffRoadEquipmentType		Rollers
tbloffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tbloffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tbloffRoadEquipment	OffRoadEquipmentType		Welders
tbloffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tbloffRoadEquipment	OffRoadEquipmentType		Cranes
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Cranes
tbloffRoadEquipment	OffRoadEquipmentType		Welders
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
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tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	27.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	6.00



tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
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tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	49.00

tblTripsAndVMT	HaulingTripNumber	3,827.00	2,691.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	PhaseName		Worker Trips
tblTripsAndVMT	PhaseName		Hydrotest
tblTripsAndVMT	PhaseName		Demobilize 2
tblTripsAndVMT	PhaseName		Grind and Cap
tblTripsAndVMT	PhaseName		Pipe Installation
tblTripsAndVMT	VendorTripLength	7.30	30.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.01	0.01

tblVehicleEF	HHD	3.05	2.97
tblVehicleEF	HHD	1.39	1.41
tblVehicleEF	HHD	67.15	69.82
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tblVehicleEF	HHD	1,584.01	1,611.58
tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.21	4.39
tblVehicleEF	HHD	4.39	4.83
tblVehicleEF	HHD	4.37	4.50
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.0040e-003	2.5020e-003
tblVehicleEF	HHD	9.5760e-003	9.7910e-003
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	1.7890e-003	1.9690e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.54	0.53
tblVehicleEF	HHD	1.6670e-003	1.8090e-003
tblVehicleEF	HHD	0.23	0.23
tblVehicleEF	HHD	0.55	0.61
tblVehicleEF	HHD	2.41	2.64
tblVehicleEF	HHD	5.6000e-003	5.6010e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6930e-003	1.7550e-003

tblVehicleEF	HHD	1.7890e-003	1.9690e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.62	0.60
tblVehicleEF	HHD	1.6670e-003	1.8090e-003
tblVehicleEF	HHD	0.26	0.27
tblVehicleEF	HHD	0.55	0.61
tblVehicleEF	HHD	2.57	2.82
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.22	2.16
tblVehicleEF	HHD	1.40	1.42
tblVehicleEF	HHD	51.17	53.46
tblVehicleEF	HHD	572.15	581.58
tblVehicleEF	HHD	1,584.01	1,611.58
tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.34	4.54
tblVehicleEF	HHD	4.23	4.65
tblVehicleEF	HHD	4.16	4.28
tblVehicleEF	HHD	8.7740e-003	8.9720e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.0040e-003	2.5020e-003
tblVehicleEF	HHD	8.0730e-003	8.2540e-003
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	2.7920e-003	3.0800e-003

tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.51	0.50
tblVehicleEF	HHD	3.2130e-003	3.5150e-003
tblVehicleEF	HHD	0.23	0.23
tblVehicleEF	HHD	0.54	0.60
tblVehicleEF	HHD	1.98	2.16
tblVehicleEF	HHD	5.9330e-003	5.9340e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.4290e-003	1.4830e-003
tblVehicleEF	HHD	2.7920e-003	3.0800e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.58	0.57
tblVehicleEF	HHD	3.2130e-003	3.5150e-003
tblVehicleEF	HHD	0.26	0.27
tblVehicleEF	HHD	0.54	0.60
tblVehicleEF	HHD	2.11	2.31
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	4.20	4.09
tblVehicleEF	HHD	1.38	1.41
tblVehicleEF	HHD	74.25	77.13
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tblVehicleEF	HHD	1,584.01	1,611.58
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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.02	4.20
tblVehicleEF	HHD	4.38	4.82
tblVehicleEF	HHD	4.46	4.59

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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.07	0.07
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	1.6460e-003	1.8240e-003
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	1.4520e-003	1.5750e-003
tblVehicleEF	HHD	0.23	0.23
tblVehicleEF	HHD	0.60	0.66
tblVehicleEF	HHD	2.60	2.85
tblVehicleEF	HHD	5.1410e-003	5.1420e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.8100e-003	1.8760e-003
tblVehicleEF	HHD	1.6460e-003	1.8240e-003
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.67	0.65
tblVehicleEF	HHD	1.4520e-003	1.5750e-003
tblVehicleEF	HHD	0.26	0.27
tblVehicleEF	HHD	0.60	0.66
tblVehicleEF	HHD	2.78	3.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.87	0.94

tblVehicleEF	LDA	2.12	2.29
tblVehicleEF	LDA	255.43	266.09
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	7.7200e-004	7.7400e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
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tblVehicleEF	LDA	1.58	1.71
tblVehicleEF	LDA	269.94	281.19

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tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.12
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tblVehicleEF	LDA	3.2510e-003	3.0930e-003
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tblVehicleEF	LDA	3.0150e-003	2.8610e-003
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tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	7.6200e-004	7.6400e-004
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.14	0.16
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.85	0.93
tblVehicleEF	LDA	2.32	2.51
tblVehicleEF	LDA	252.81	263.35
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51

tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	7.7500e-004	7.7800e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.19	0.20
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.68	1.82
tblVehicleEF	LDT1	4.00	4.33
tblVehicleEF	LDT1	309.85	320.90
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.23	0.25

tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	4.1290e-003	4.1270e-003
tblVehicleEF	LDT1	9.1600e-004	9.2000e-004
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.85	2.00
tblVehicleEF	LDT1	3.01	3.26
tblVehicleEF	LDT1	326.49	338.09
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003

tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	4.3540e-003	4.3530e-003
tblVehicleEF	LDT1	8.9800e-004	9.0100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.26	0.28
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.65	1.79
tblVehicleEF	LDT1	4.37	4.74
tblVehicleEF	LDT1	306.84	317.78
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003

tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	4.0880e-003	4.0870e-003
tblVehicleEF	LDT1	9.2200e-004	9.2700e-004
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.33	0.36
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.01	1.10
tblVehicleEF	LDT2	2.42	2.66
tblVehicleEF	LDT2	378.64	391.32
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003

tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.8450e-003	4.8470e-003
tblVehicleEF	LDT2	1.0450e-003	1.0480e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.12	1.22
tblVehicleEF	LDT2	1.81	2.00
tblVehicleEF	LDT2	399.61	412.98
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.19	0.22
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	5.1160e-003	5.1180e-003
tblVehicleEF	LDT2	1.0340e-003	1.0370e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	0.99	1.08
tblVehicleEF	LDT2	2.65	2.92
tblVehicleEF	LDT2	374.85	387.40
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	4.7960e-003	4.7980e-003
tblVehicleEF	LDT2	1.0490e-003	1.0530e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.64	1.79
tblVehicleEF	LHD1	3.92	4.10
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.32	1.41
tblVehicleEF	LHD1	1.18	1.20
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05

tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.7800e-004	4.8000e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.38	0.40
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.67	1.82

tblVehicleEF	LHD1	3.06	3.21
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.26	1.35
tblVehicleEF	LHD1	1.13	1.15
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.31	0.32
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.6300e-004	4.6500e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.19	0.20
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.62	1.78
tblVehicleEF	LHD1	4.30	4.50
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.31	1.41
tblVehicleEF	LHD1	1.21	1.23
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.37	0.40
tblVehicleEF	LHD1	8.0860e-003	8.0890e-003
tblVehicleEF	LHD1	4.8400e-004	4.8700e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.15
tblVehicleEF	LHD2	1.93	2.06
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.92	2.06
tblVehicleEF	LHD2	0.68	0.69

tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.18	0.19
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8300e-004	2.8400e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.07	1.16
tblVehicleEF	LHD2	1.52	1.62
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.85	1.98
tblVehicleEF	LHD2	0.65	0.66
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.7500e-004	2.7600e-004

tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.14
tblVehicleEF	LHD2	2.12	2.25
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.91	2.06
tblVehicleEF	LHD2	0.69	0.71
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.19	0.20
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8600e-004	2.8700e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	MCY	28.80	29.57
tblVehicleEF	MCY	10.23	10.18
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.24	1.25
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004

tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	2.97	3.00
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	2.2710e-003	2.2680e-003
tblVehicleEF	MCY	6.6000e-004	6.6500e-004
tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	3.24	3.27
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.28	2.29
tblVehicleEF	MCY	27.18	27.88
tblVehicleEF	MCY	8.78	8.76
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12

tblVehicleEF	MCY	2.88	2.90
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.82	1.83
tblVehicleEF	MCY	2.2430e-003	2.2380e-003
tblVehicleEF	MCY	6.2800e-004	6.3300e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	3.14	3.16
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.95	1.96
tblVehicleEF	MCY	29.90	30.70
tblVehicleEF	MCY	10.90	10.84
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.26	1.26
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.02	3.05
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.26	2.28

tblVehicleEF	MCY	2.2900e-003	2.2870e-003
tblVehicleEF	MCY	6.7500e-004	6.8000e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.29	3.32
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.80	1.94
tblVehicleEF	MDV	4.47	4.76
tblVehicleEF	MDV	507.05	522.26
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.41	0.44
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.37	0.39
tblVehicleEF	MDV	6.1860e-003	6.1840e-003

tblVehicleEF	MDV	1.3510e-003	1.3540e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.99	2.13
tblVehicleEF	MDV	3.36	3.58
tblVehicleEF	MDV	534.71	550.71
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.30	0.32
tblVehicleEF	MDV	6.5270e-003	6.5240e-003
tblVehicleEF	MDV	1.3310e-003	1.3340e-003

tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.78	1.91
tblVehicleEF	MDV	4.89	5.20
tblVehicleEF	MDV	502.05	517.12
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	6.1240e-003	6.1230e-003
tblVehicleEF	MDV	1.3580e-003	1.3620e-003
tblVehicleEF	MDV	0.05	0.05

tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.42	0.45
tblVehicleEF	MH	2.54	3.13
tblVehicleEF	MH	7.17	7.80
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.78	0.82
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.87	0.94
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.40	0.44
tblVehicleEF	MH	7.5230e-003	7.5340e-003
tblVehicleEF	MH	4.4000e-004	4.5300e-004
tblVehicleEF	MH	0.87	0.94

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	2.60	3.20
tblVehicleEF	MH	5.48	5.94
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.38	1.47
tblVehicleEF	MH	0.74	0.78
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	1.20	1.30
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.12	0.13
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.34	0.37
tblVehicleEF	MH	7.5240e-003	7.5350e-003
tblVehicleEF	MH	4.1200e-004	4.2100e-004
tblVehicleEF	MH	1.20	1.30

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.36	0.39
tblVehicleEF	MH	2.51	3.10
tblVehicleEF	MH	7.93	8.64
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.79	0.84
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.92	0.99
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	7.5230e-003	7.5330e-003
tblVehicleEF	MH	4.5300e-004	4.6700e-004
tblVehicleEF	MH	0.92	0.99

tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.46	0.51
tblVehicleEF	MHD	7.5130e-003	7.5000e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.87	1.86
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	18.09	19.57
tblVehicleEF	MHD	582.55	590.85
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.15	5.46
tblVehicleEF	MHD	2.29	2.63
tblVehicleEF	MHD	1.90	2.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.2790e-003	2.4930e-003

tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.16	0.16
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.07	1.18
tblVehicleEF	MHD	6.0410e-003	6.0290e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.7600e-004	9.1300e-004
tblVehicleEF	MHD	2.2790e-003	2.4930e-003
tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.18	0.18
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.14	1.27
tblVehicleEF	MHD	7.0810e-003	7.0680e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.36	1.35
tblVehicleEF	MHD	0.90	1.02
tblVehicleEF	MHD	14.01	15.23
tblVehicleEF	MHD	617.16	625.96
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.32	5.63
tblVehicleEF	MHD	2.20	2.52
tblVehicleEF	MHD	1.80	1.92

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.91	1.00
tblVehicleEF	MHD	6.4000e-003	6.3870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.0700e-004	8.4000e-004
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.97	1.07
tblVehicleEF	MHD	8.1110e-003	8.0960e-003

tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	2.58	2.56
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	19.91	21.51
tblVehicleEF	MHD	534.76	542.38
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.92	5.21
tblVehicleEF	MHD	2.29	2.62
tblVehicleEF	MHD	1.94	2.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.14	1.27

tblVehicleEF	MHD	5.5450e-003	5.5340e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.0700e-004	9.4600e-004
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.20	0.20
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.22	1.35
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	2.55	2.48
tblVehicleEF	OBUS	1.49	1.65
tblVehicleEF	OBUS	11.39	12.02
tblVehicleEF	OBUS	545.88	554.85
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.14	5.30
tblVehicleEF	OBUS	2.96	3.28
tblVehicleEF	OBUS	1.61	1.69
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	9.3200e-003	9.4330e-003

tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.44	0.42
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.69	0.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.7700e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.50	0.48
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.74	0.78
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	1.85	1.80
tblVehicleEF	OBUS	1.52	1.68
tblVehicleEF	OBUS	8.89	9.38
tblVehicleEF	OBUS	578.31	587.81
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25

tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.30	5.47
tblVehicleEF	OBUS	2.83	3.13
tblVehicleEF	OBUS	1.53	1.61
tblVehicleEF	OBUS	8.5400e-003	8.6440e-003
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	7.8570e-003	7.9520e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.41	0.40
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.60	0.63
tblVehicleEF	OBUS	5.9970e-003	5.9980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.2300e-004	5.3300e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.45
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004

tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.64	0.67
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	3.51	3.41
tblVehicleEF	OBUS	1.48	1.64
tblVehicleEF	OBUS	12.52	13.20
tblVehicleEF	OBUS	501.09	509.32
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	4.91	5.06
tblVehicleEF	OBUS	2.95	3.27
tblVehicleEF	OBUS	1.64	1.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.46

tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.74	0.77
tblVehicleEF	OBUS	5.1960e-003	5.1970e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.8500e-004	5.9700e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.54	0.52
tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.79	0.83
tblVehicleEF	SBUS	4.3860e-003	4.3220e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.02	0.99
tblVehicleEF	SBUS	4.62	6.19
tblVehicleEF	SBUS	35.49	38.94
tblVehicleEF	SBUS	556.78	563.29
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.66	7.75
tblVehicleEF	SBUS	7.17	7.37
tblVehicleEF	SBUS	2.64	2.69
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.35	2.80
tblVehicleEF	SBUS	5.7740e-003	5.7480e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9360e-003	2.0510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.51	3.00
tblVehicleEF	SBUS	4.1340e-003	4.0730e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	0.74	0.72

tblVehicleEF	SBUS	4.64	6.04
tblVehicleEF	SBUS	29.55	32.78
tblVehicleEF	SBUS	589.86	596.75
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.91	8.00
tblVehicleEF	SBUS	6.88	7.07
tblVehicleEF	SBUS	2.47	2.52
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.41	0.47
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.06	2.43
tblVehicleEF	SBUS	6.1170e-003	6.0890e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	1.8340e-003	1.9430e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.20	2.60
tblVehicleEF	SBUS	4.7350e-003	4.6660e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.41	1.37
tblVehicleEF	SBUS	4.62	6.29
tblVehicleEF	SBUS	38.45	42.02
tblVehicleEF	SBUS	511.10	517.07
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.32	7.40
tblVehicleEF	SBUS	7.15	7.34
tblVehicleEF	SBUS	2.72	2.77
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.49	2.99
tblVehicleEF	SBUS	5.3000e-003	5.2760e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9870e-003	2.1050e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.44	0.52
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.66	3.20
tblVehicleEF	UBUS	3.05	3.27
tblVehicleEF	UBUS	5.69	5.79
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.19	11.63
tblVehicleEF	UBUS	0.89	0.88
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004

tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.52	0.53
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.5800e-004	3.6100e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.56	0.56
tblVehicleEF	UBUS	3.08	3.29
tblVehicleEF	UBUS	4.68	4.77
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	10.79	11.22
tblVehicleEF	UBUS	0.84	0.84
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003

tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.46	0.47
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.4100e-004	3.4400e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.50	0.50
tblVehicleEF	UBUS	3.04	3.26
tblVehicleEF	UBUS	6.13	6.23
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.14	11.58
tblVehicleEF	UBUS	0.91	0.90
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.59	0.61

tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.6600e-004	3.6900e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.66	0.69
tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.58	0.59

## 2.0 Emissions Summary

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Offroad	19.0982	191.9810	108.7083	0.3449		7.1552	7.1552		6.5928	6.5928		34,077.46 16	34,077.46 16	10.7431			34,303.06 56
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.46 16</b>	<b>34,077.46 16</b>	<b>10.7431</b>			<b>34,303.06 56</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Offroad	19.0982	191.9810	108.7083	0.3449		7.1552	7.1552		6.5928	6.5928		34,077.46 16	34,077.46 16	10.7431			34,303.06 56
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.46 16</b>	<b>34,077.46 16</b>	<b>10.7431</b>			<b>34,303.06 56</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
<b>Percent Reduction</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipe Installation	Site Preparation	1/1/2019	1/16/2019	6	14	
2	Worker Trips	Building Construction	1/1/2019	1/16/2019	6	14	
3	Hydrotest	Building Construction	1/1/2019	1/5/2019	6	5	
4	Demobilize 2	Building Construction	1/1/2019	1/16/2019	6	14	
5	Grind and Cap	Paving	1/1/2019	1/5/2019	6	5	

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
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Paving Equipment	4	5.00	130	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Worker Trips	Cranes	0	4.00	226	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Off-Highway Trucks	5	8.00	400	0.38
Pipe Installation	Off-Highway Trucks	5	6.00	400	0.38
Pipe Installation	Air Compressors	28	6.00	78	0.48

Pipe Installation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Pipe Installation	Other General Industrial Equipment	5	6.00	87	0.34
Pipe Installation	Air Compressors	10	6.00	78	0.48
Pipe Installation	Crawler Tractors	3	8.00	208	0.43
Pipe Installation	Excavators	18	7.00	162	0.38
Pipe Installation	Excavators	10	7.00	162	0.38
Pipe Installation	Rough Terrain Forklifts	5	6.00	100	0.40
Pipe Installation	Other Material Handling Equipment	5	6.00	75	0.40
Pipe Installation	Graders	0	8.00	174	0.41
Pipe Installation	Excavators	5	6.00	162	0.38
Pipe Installation	Excavators	10	6.00	162	0.38
Pipe Installation	Generator Sets	10	8.00	84	0.74
Pipe Installation	Cranes	5	7.00	226	0.29
Pipe Installation	Bore/Drill Rigs	5	7.00	205	0.50
Pipe Installation	Rollers	4	6.00	80	0.38
Pipe Installation	Concrete/Industrial Saws	8	5.00	81	0.73
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Welders	40	7.00	46	0.45
Pipe Installation	Rubber Tired Loaders	3	8.00	199	0.36
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Excavators	2	6.00	162	0.38
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Welders	4	7.00	46	0.45

Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Pavers	0	7.00	125	0.42
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Worker Trips	0	600.00	24.00	0.00	30.00	30.00	30.00	LD_Mix	MHDT	HHDT
Hydrotest	0	2.00	6.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	0	4.00	0.00	49.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Pipe Installation	0	68.00	121.00	2,691.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Pipe Installation - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3073	0.0000	0.3073	0.0465	0.0000	0.0465			0.0000			0.0000
Off-Road	60.7233	505.0678	455.2021	0.8183		27.2305	27.2305		25.9950	25.9950		78,517.00 46	78,517.00 46	18.9723		78,915.42 35
<b>Total</b>	<b>60.7233</b>	<b>505.0678</b>	<b>455.2021</b>	<b>0.8183</b>	<b>0.3073</b>	<b>27.2305</b>	<b>27.5378</b>	<b>0.0465</b>	<b>25.9950</b>	<b>26.0416</b>		<b>78,517.00 46</b>	<b>78,517.00 46</b>	<b>18.9723</b>		<b>78,915.42 35</b>

### 3.2 Pipe Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.2565	75.4689	46.3800	0.2824	6.6951	1.2506	7.9457	1.8329	1.1505	2.9834		27,181.1608	27,181.1608	0.1855		27,185.0564
Vendor	2.0861	25.4691	13.7371	0.1155	4.5586	0.5911	5.1497	1.3461	0.5438	1.8899		11,076.0178	11,076.0178	0.0653		11,077.3886
Worker	0.3146	0.7241	7.6726	0.0257	2.0671	0.0131	2.0802	0.5481	0.0122	0.5602		1,912.2186	1,912.2186	0.0837		1,913.9762
<b>Total</b>	<b>7.6571</b>	<b>101.6621</b>	<b>67.7897</b>	<b>0.4236</b>	<b>13.3208</b>	<b>1.8548</b>	<b>15.1756</b>	<b>3.7270</b>	<b>1.7065</b>	<b>5.4335</b>		<b>40,169.3972</b>	<b>40,169.3972</b>	<b>0.3345</b>		<b>40,176.4212</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	lb/day										lb/day					
Fugitive Dust					0.1383	0.0000	0.1383	0.0209	0.0000	0.0209			0.0000			0.0000
Off-Road	20.6625	411.0288	525.6439	0.8183		22.9003	22.9003		22.9003	22.9003	0.0000	78,517.0045	78,517.0045	18.9723		78,915.4234
<b>Total</b>	<b>20.6625</b>	<b>411.0288</b>	<b>525.6439</b>	<b>0.8183</b>	<b>0.1383</b>	<b>22.9003</b>	<b>23.0385</b>	<b>0.0209</b>	<b>22.9003</b>	<b>22.9212</b>	<b>0.0000</b>	<b>78,517.0045</b>	<b>78,517.0045</b>	<b>18.9723</b>		<b>78,915.4234</b>

### 3.2 Pipe Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.2565	75.4689	46.3800	0.2824	6.6951	1.2506	7.9457	1.8329	1.1505	2.9834		27,181.1608	27,181.1608	0.1855		27,185.0564
Vendor	2.0861	25.4691	13.7371	0.1155	4.5586	0.5911	5.1497	1.3461	0.5438	1.8899		11,076.0178	11,076.0178	0.0653		11,077.3886
Worker	0.3146	0.7241	7.6726	0.0257	2.0671	0.0131	2.0802	0.5481	0.0122	0.5602		1,912.2186	1,912.2186	0.0837		1,913.9762
<b>Total</b>	<b>7.6571</b>	<b>101.6621</b>	<b>67.7897</b>	<b>0.4236</b>	<b>13.3208</b>	<b>1.8548</b>	<b>15.1756</b>	<b>3.7270</b>	<b>1.7065</b>	<b>5.4335</b>		<b>40,169.3972</b>	<b>40,169.3972</b>	<b>0.3345</b>		<b>40,176.4212</b>

### 3.3 Worker Trips - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
<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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### 3.3 Worker Trips - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3324	3.8859	2.2480	0.0173	0.6783	0.0882	0.7665	0.2003	0.0811	0.2815		1,657.864 2	1,657.864 2	9.8100e- 003			1,658.070 2
Worker	2.3781	4.8471	51.4753	0.1704	13.6808	0.0882	13.7689	3.6274	0.0817	3.7091		12,686.00 95	12,686.00 95	0.5580			12,697.72 66
<b>Total</b>	<b>2.7105</b>	<b>8.7330</b>	<b>53.7233</b>	<b>0.1877</b>	<b>14.3591</b>	<b>0.1764</b>	<b>14.5354</b>	<b>3.8277</b>	<b>0.1629</b>	<b>3.9906</b>		<b>14,343.87 36</b>	<b>14,343.87 36</b>	<b>0.5678</b>			<b>14,355.79 68</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	lb/day										lb/day						
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

### 3.3 Worker Trips - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3324	3.8859	2.2480	0.0173	0.6783	0.0882	0.7665	0.2003	0.0811	0.2815		1,657.864 2	1,657.864 2	9.8100e- 003			1,658.070 2
Worker	2.3781	4.8471	51.4753	0.1704	13.6808	0.0882	13.7689	3.6274	0.0817	3.7091		12,686.00 95	12,686.00 95	0.5580			12,697.72 66
<b>Total</b>	<b>2.7105</b>	<b>8.7330</b>	<b>53.7233</b>	<b>0.1877</b>	<b>14.3591</b>	<b>0.1764</b>	<b>14.5354</b>	<b>3.8277</b>	<b>0.1629</b>	<b>3.9906</b>		<b>14,343.87 36</b>	<b>14,343.87 36</b>	<b>0.5678</b>			<b>14,355.79 68</b>

### 3.4 Hydrotest - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.0832	31.1718	26.3238	0.0454		1.7118	1.7118		1.6612	1.6612		4,250.734 3	4,250.734 3	0.8098			4,267.740 8
<b>Total</b>	<b>4.0832</b>	<b>31.1718</b>	<b>26.3238</b>	<b>0.0454</b>		<b>1.7118</b>	<b>1.7118</b>		<b>1.6612</b>	<b>1.6612</b>		<b>4,250.734 3</b>	<b>4,250.734 3</b>	<b>0.8098</b>			<b>4,267.740 8</b>

### 3.4 Hydrotest - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1034	1.2629	0.6812	5.7300e-003	0.2261	0.0293	0.2554	0.0668	0.0270	0.0937		549.2240	549.2240	3.2400e-003			549.2920
Worker	9.2500e-003	0.0213	0.2257	7.6000e-004	0.0608	3.9000e-004	0.0612	0.0161	3.6000e-004	0.0165		56.2417	56.2417	2.4600e-003			56.2934
<b>Total</b>	<b>0.1127</b>	<b>1.2842</b>	<b>0.9069</b>	<b>6.4900e-003</b>	<b>0.2869</b>	<b>0.0297</b>	<b>0.3165</b>	<b>0.0829</b>	<b>0.0273</b>	<b>0.1102</b>		<b>605.4657</b>	<b>605.4657</b>	<b>5.7000e-003</b>			<b>605.5854</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	lb/day										lb/day						
Off-Road	1.1804	22.8757	27.9980	0.0454		1.3136	1.3136		1.3136	1.3136	0.0000	4,250.7343	4,250.7343	0.8098			4,267.7408
<b>Total</b>	<b>1.1804</b>	<b>22.8757</b>	<b>27.9980</b>	<b>0.0454</b>		<b>1.3136</b>	<b>1.3136</b>		<b>1.3136</b>	<b>1.3136</b>	<b>0.0000</b>	<b>4,250.7343</b>	<b>4,250.7343</b>	<b>0.8098</b>			<b>4,267.7408</b>

### 3.4 Hydrotest - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1034	1.2629	0.6812	5.7300e-003	0.2261	0.0293	0.2554	0.0668	0.0270	0.0937		549.2240	549.2240	3.2400e-003			549.2920
Worker	9.2500e-003	0.0213	0.2257	7.6000e-004	0.0608	3.9000e-004	0.0612	0.0161	3.6000e-004	0.0165		56.2417	56.2417	2.4600e-003			56.2934
<b>Total</b>	<b>0.1127</b>	<b>1.2842</b>	<b>0.9069</b>	<b>6.4900e-003</b>	<b>0.2869</b>	<b>0.0297</b>	<b>0.3165</b>	<b>0.0829</b>	<b>0.0273</b>	<b>0.1102</b>		<b>605.4657</b>	<b>605.4657</b>	<b>5.7000e-003</b>			<b>605.5854</b>

### 3.5 Demobilize 2 - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
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
<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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

### 3.5 Demobilize 2 - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2069	2.5259	1.3624	0.0115	0.4521	0.0586	0.5107	0.1335	0.0539	0.1874		1,098.4480	1,098.4480	6.4700e-003			1,098.5840
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.2069</b>	<b>2.5259</b>	<b>1.3624</b>	<b>0.0115</b>	<b>0.4521</b>	<b>0.0586</b>	<b>0.5107</b>	<b>0.1335</b>	<b>0.0539</b>	<b>0.1874</b>		<b>1,098.4480</b>	<b>1,098.4480</b>	<b>6.4700e-003</b>			<b>1,098.5840</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	lb/day										lb/day						
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

### 3.5 Demobilize 2 - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2069	2.5259	1.3624	0.0115	0.4521	0.0586	0.5107	0.1335	0.0539	0.1874		1,098.4480	1,098.4480	6.4700e-003			1,098.5840
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.2069</b>	<b>2.5259</b>	<b>1.3624</b>	<b>0.0115</b>	<b>0.4521</b>	<b>0.0586</b>	<b>0.5107</b>	<b>0.1335</b>	<b>0.0539</b>	<b>0.1874</b>		<b>1,098.4480</b>	<b>1,098.4480</b>	<b>6.4700e-003</b>			<b>1,098.5840</b>

### 3.6 Grind and Cap - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.4345	28.8340	27.8577	0.0418		1.9248	1.9248		1.8272	1.8272		4,062.5150	4,062.5150	0.8942			4,081.2929
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>3.4345</b>	<b>28.8340</b>	<b>27.8577</b>	<b>0.0418</b>		<b>1.9248</b>	<b>1.9248</b>		<b>1.8272</b>	<b>1.8272</b>		<b>4,062.5150</b>	<b>4,062.5150</b>	<b>0.8942</b>			<b>4,081.2929</b>

### 3.6 Grind and Cap - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.2680	3.8478	2.3647	0.0144	0.3414	0.0638	0.4051	0.0935	0.0587	0.1521		1,385.825 1	1,385.825 1	9.4600e- 003			1,386.023 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0185	0.0426	0.4513	1.5100e- 003	0.1216	7.7000e- 004	0.1224	0.0322	7.2000e- 004	0.0330		112.4835	112.4835	4.9200e- 003			112.5868
<b>Total</b>	<b>0.2865</b>	<b>3.8904</b>	<b>2.8160</b>	<b>0.0159</b>	<b>0.4629</b>	<b>0.0645</b>	<b>0.5275</b>	<b>0.1257</b>	<b>0.0594</b>	<b>0.1851</b>		<b>1,498.308 5</b>	<b>1,498.308 5</b>	<b>0.0144</b>			<b>1,498.610 5</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	lb/day										lb/day						
Off-Road	0.9472	20.7613	29.2057	0.0418		1.3505	1.3505		1.3505	1.3505	0.0000	4,062.515 0	4,062.515 0	0.8942			4,081.292 9
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>0.9472</b>	<b>20.7613</b>	<b>29.2057</b>	<b>0.0418</b>		<b>1.3505</b>	<b>1.3505</b>		<b>1.3505</b>	<b>1.3505</b>	<b>0.0000</b>	<b>4,062.515 0</b>	<b>4,062.515 0</b>	<b>0.8942</b>			<b>4,081.292 9</b>



LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

**5.0 Energy Detail**

**5.1 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	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

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	62	0.31	Diesel
Cranes	1	10.00	1	226	0.29	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	6	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	4	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	2	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	240	400	0.38	Diesel
Off-Highway Trucks	1	10.00	12	400	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

**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	lb/day										lb/day					
Aerial Lifts	0.0501	0.8375	1.3443	2.0700e-003		0.0206	0.0206		0.0189	0.0189		204.4937	204.4937	0.0647		205.8524
Cranes	0.6164	7.3462	2.8043	7.0500e-003		0.3114	0.3114		0.2865	0.2865		698.5584	698.5584	0.2210		703.1997
Off-Highway Trucks	17.6593	178.8452	99.4225	0.3287		6.5036	6.5036		5.9834	5.9834		32,530.6350	32,530.6350	10.2924		32,746.7743
Tractors/Loaders/Backhoes	0.2910	2.9217	2.8784	3.8800e-003		0.1951	0.1951		0.1795	0.1795		384.4273	384.4273	0.1216		386.9815
Welders	0.4815	2.0303	2.2590	3.1900e-003		0.1246	0.1246		0.1246	0.1246		259.3472	259.3472	0.0434		260.2576
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.4616</b>	<b>34,077.4616</b>	<b>10.7431</b>		<b>34,303.0656</b>

**10.0 Vegetation**

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**Pipeline Safety & Reliability Project**  
**San Diego County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

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Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume all worker trips are paved, assume average vendor and hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	49.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00





tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/5/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	2/5/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	3/28/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	6/30/2018	4/22/2018
tblConstructionPhase	PhaseEndDate	2/4/2019	4/19/2018
tblConstructionPhase	PhaseEndDate	10/20/2018	6/1/2018
tblConstructionPhase	PhaseEndDate	2/25/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	8/13/2018	7/14/2018
tblConstructionPhase	PhaseEndDate	12/23/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	3/18/2019	4/23/2018
tblConstructionPhase	PhaseEndDate	9/19/2018	9/14/2018
tblConstructionPhase	PhaseStartDate	7/15/2018	10/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	11/26/2018
tblConstructionPhase	PhaseStartDate	4/1/2018	1/4/2018
tblConstructionPhase	PhaseStartDate	4/24/2018	2/13/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	3/16/2018
tblConstructionPhase	PhaseStartDate	9/15/2018	4/27/2018
tblConstructionPhase	PhaseStartDate	4/23/2018	2/25/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	5/4/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	1/9/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	2/6/2018
tblConstructionPhase	PhaseStartDate	4/20/2018	4/16/2018
tblGrading	AcresOfGrading	612.00	30.10
tblGrading	MaterialExported	0.00	362,326.00



tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	PhaseName		Grind and Cap



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tblOnRoadDust	VendorPercentPave	100.00	99.00
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tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00



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tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	1.7890e-003	1.9690e-003
tblVehicleEF	HHD	0.10	0.12
tblVehicleEF	HHD	0.54	0.53
tblVehicleEF	HHD	1.6670e-003	1.8090e-003
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tblVehicleEF	HHD	0.55	0.61
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tblVehicleEF	HHD	1.7890e-003	1.9690e-003
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tblVehicleEF	HHD	1.6670e-003	1.8090e-003
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tblVehicleEF	HHD	0.55	0.61
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tblVehicleEF	HHD	51.90	53.95
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.34	4.54
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tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.0040e-003	2.5020e-003
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tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
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tblVehicleEF	HHD	2.7920e-003	3.0800e-003
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tblVehicleEF	HHD	0.58	0.57
tblVehicleEF	HHD	3.2130e-003	3.5150e-003
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.07	0.07
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.7100e-003	8.7090e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.7750e-003	2.1700e-003
tblVehicleEF	HHD	1.6460e-003	1.8240e-003
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	1.4520e-003	1.5750e-003
tblVehicleEF	HHD	0.23	0.23
tblVehicleEF	HHD	0.60	0.66
tblVehicleEF	HHD	2.60	2.85
tblVehicleEF	HHD	5.1410e-003	5.1420e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.8100e-003	1.8760e-003
tblVehicleEF	HHD	1.6460e-003	1.8240e-003
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.67	0.65
tblVehicleEF	HHD	1.4520e-003	1.5750e-003
tblVehicleEF	HHD	0.26	0.27
tblVehicleEF	HHD	0.60	0.66
tblVehicleEF	HHD	2.78	3.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.87	0.94

tblVehicleEF	LDA	2.12	2.29
tblVehicleEF	LDA	255.43	266.09
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	7.7200e-004	7.7400e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.97	1.05
tblVehicleEF	LDA	1.58	1.71
tblVehicleEF	LDA	269.94	281.19

tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	7.6200e-004	7.6400e-004
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.14	0.16
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.85	0.93
tblVehicleEF	LDA	2.32	2.51
tblVehicleEF	LDA	252.81	263.35
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51

tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
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tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	7.7500e-004	7.7800e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.19	0.20
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.68	1.82
tblVehicleEF	LDT1	4.00	4.33
tblVehicleEF	LDT1	309.85	320.90
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.23	0.25

tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	4.1290e-003	4.1270e-003
tblVehicleEF	LDT1	9.1600e-004	9.2000e-004
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.85	2.00
tblVehicleEF	LDT1	3.01	3.26
tblVehicleEF	LDT1	326.49	338.09
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003

tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	4.3540e-003	4.3530e-003
tblVehicleEF	LDT1	8.9800e-004	9.0100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.26	0.28
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.65	1.79
tblVehicleEF	LDT1	4.37	4.74
tblVehicleEF	LDT1	306.84	317.78
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003

tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	4.0880e-003	4.0870e-003
tblVehicleEF	LDT1	9.2200e-004	9.2700e-004
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.33	0.36
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.01	1.10
tblVehicleEF	LDT2	2.42	2.66
tblVehicleEF	LDT2	378.64	391.32
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003

tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.8450e-003	4.8470e-003
tblVehicleEF	LDT2	1.0450e-003	1.0480e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.12	1.22
tblVehicleEF	LDT2	1.81	2.00
tblVehicleEF	LDT2	399.61	412.98
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.19	0.22
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	5.1160e-003	5.1180e-003
tblVehicleEF	LDT2	1.0340e-003	1.0370e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	0.99	1.08
tblVehicleEF	LDT2	2.65	2.92
tblVehicleEF	LDT2	374.85	387.40
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	4.7960e-003	4.7980e-003
tblVehicleEF	LDT2	1.0490e-003	1.0530e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.64	1.79
tblVehicleEF	LHD1	3.92	4.10
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.32	1.41
tblVehicleEF	LHD1	1.18	1.20
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05

tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.7800e-004	4.8000e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.38	0.40
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.67	1.82

tblVehicleEF	LHD1	3.06	3.21
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.26	1.35
tblVehicleEF	LHD1	1.13	1.15
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.31	0.32
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.6300e-004	4.6500e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.19	0.20
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.62	1.78
tblVehicleEF	LHD1	4.30	4.50
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.31	1.41
tblVehicleEF	LHD1	1.21	1.23
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.37	0.40
tblVehicleEF	LHD1	8.0860e-003	8.0890e-003
tblVehicleEF	LHD1	4.8400e-004	4.8700e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.15
tblVehicleEF	LHD2	1.93	2.06
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.92	2.06
tblVehicleEF	LHD2	0.68	0.69

tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.18	0.19
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8300e-004	2.8400e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.07	1.16
tblVehicleEF	LHD2	1.52	1.62
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.85	1.98
tblVehicleEF	LHD2	0.65	0.66
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.7500e-004	2.7600e-004

tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.14
tblVehicleEF	LHD2	2.12	2.25
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.91	2.06
tblVehicleEF	LHD2	0.69	0.71
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.19	0.20
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8600e-004	2.8700e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	MCY	28.80	29.57
tblVehicleEF	MCY	10.23	10.18
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.24	1.25
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004

tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	2.97	3.00
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	2.2710e-003	2.2680e-003
tblVehicleEF	MCY	6.6000e-004	6.6500e-004
tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	3.24	3.27
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.28	2.29
tblVehicleEF	MCY	27.18	27.88
tblVehicleEF	MCY	8.78	8.76
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12

tblVehicleEF	MCY	2.88	2.90
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.82	1.83
tblVehicleEF	MCY	2.2430e-003	2.2380e-003
tblVehicleEF	MCY	6.2800e-004	6.3300e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	3.14	3.16
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.95	1.96
tblVehicleEF	MCY	29.90	30.70
tblVehicleEF	MCY	10.90	10.84
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.26	1.26
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.02	3.05
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.26	2.28

tblVehicleEF	MCY	2.2900e-003	2.2870e-003
tblVehicleEF	MCY	6.7500e-004	6.8000e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.29	3.32
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.80	1.94
tblVehicleEF	MDV	4.47	4.76
tblVehicleEF	MDV	507.05	522.26
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.41	0.44
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.37	0.39
tblVehicleEF	MDV	6.1860e-003	6.1840e-003

tblVehicleEF	MDV	1.3510e-003	1.3540e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.99	2.13
tblVehicleEF	MDV	3.36	3.58
tblVehicleEF	MDV	534.71	550.71
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.30	0.32
tblVehicleEF	MDV	6.5270e-003	6.5240e-003
tblVehicleEF	MDV	1.3310e-003	1.3340e-003

tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.78	1.91
tblVehicleEF	MDV	4.89	5.20
tblVehicleEF	MDV	502.05	517.12
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	6.1240e-003	6.1230e-003
tblVehicleEF	MDV	1.3580e-003	1.3620e-003
tblVehicleEF	MDV	0.05	0.05

tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.42	0.45
tblVehicleEF	MH	2.54	3.13
tblVehicleEF	MH	7.17	7.80
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.78	0.82
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.87	0.94
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.40	0.44
tblVehicleEF	MH	7.5230e-003	7.5340e-003
tblVehicleEF	MH	4.4000e-004	4.5300e-004
tblVehicleEF	MH	0.87	0.94

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	2.60	3.20
tblVehicleEF	MH	5.48	5.94
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.38	1.47
tblVehicleEF	MH	0.74	0.78
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	1.20	1.30
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.12	0.13
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.34	0.37
tblVehicleEF	MH	7.5240e-003	7.5350e-003
tblVehicleEF	MH	4.1200e-004	4.2100e-004
tblVehicleEF	MH	1.20	1.30

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.36	0.39
tblVehicleEF	MH	2.51	3.10
tblVehicleEF	MH	7.93	8.64
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.79	0.84
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.92	0.99
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	7.5230e-003	7.5330e-003
tblVehicleEF	MH	4.5300e-004	4.6700e-004
tblVehicleEF	MH	0.92	0.99

tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.46	0.51
tblVehicleEF	MHD	7.5130e-003	7.5000e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.87	1.86
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	18.09	19.57
tblVehicleEF	MHD	582.55	590.85
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.15	5.46
tblVehicleEF	MHD	2.29	2.63
tblVehicleEF	MHD	1.90	2.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.2790e-003	2.4930e-003

tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.16	0.16
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.07	1.18
tblVehicleEF	MHD	6.0410e-003	6.0290e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.7600e-004	9.1300e-004
tblVehicleEF	MHD	2.2790e-003	2.4930e-003
tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.18	0.18
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.14	1.27
tblVehicleEF	MHD	7.0810e-003	7.0680e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.36	1.35
tblVehicleEF	MHD	0.90	1.02
tblVehicleEF	MHD	14.01	15.23
tblVehicleEF	MHD	617.16	625.96
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.32	5.63
tblVehicleEF	MHD	2.20	2.52
tblVehicleEF	MHD	1.80	1.92

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.91	1.00
tblVehicleEF	MHD	6.4000e-003	6.3870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.0700e-004	8.4000e-004
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.97	1.07
tblVehicleEF	MHD	8.1110e-003	8.0960e-003

tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	2.58	2.56
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	19.91	21.51
tblVehicleEF	MHD	534.76	542.38
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.92	5.21
tblVehicleEF	MHD	2.29	2.62
tblVehicleEF	MHD	1.94	2.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.14	1.27

tblVehicleEF	MHD	5.5450e-003	5.5340e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.0700e-004	9.4600e-004
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.20	0.20
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.22	1.35
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	2.55	2.48
tblVehicleEF	OBUS	1.49	1.65
tblVehicleEF	OBUS	11.39	12.02
tblVehicleEF	OBUS	545.88	554.85
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.14	5.30
tblVehicleEF	OBUS	2.96	3.28
tblVehicleEF	OBUS	1.61	1.69
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	9.3200e-003	9.4330e-003

tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.44	0.42
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.69	0.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.7700e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.50	0.48
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.74	0.78
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	1.85	1.80
tblVehicleEF	OBUS	1.52	1.68
tblVehicleEF	OBUS	8.89	9.38
tblVehicleEF	OBUS	578.31	587.81
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25

tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.30	5.47
tblVehicleEF	OBUS	2.83	3.13
tblVehicleEF	OBUS	1.53	1.61
tblVehicleEF	OBUS	8.5400e-003	8.6440e-003
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	7.8570e-003	7.9520e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.41	0.40
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.60	0.63
tblVehicleEF	OBUS	5.9970e-003	5.9980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.2300e-004	5.3300e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.45
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004

tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.64	0.67
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	3.51	3.41
tblVehicleEF	OBUS	1.48	1.64
tblVehicleEF	OBUS	12.52	13.20
tblVehicleEF	OBUS	501.09	509.32
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	4.91	5.06
tblVehicleEF	OBUS	2.95	3.27
tblVehicleEF	OBUS	1.64	1.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.46

tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.74	0.77
tblVehicleEF	OBUS	5.1960e-003	5.1970e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.8500e-004	5.9700e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.54	0.52
tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.79	0.83
tblVehicleEF	SBUS	4.3860e-003	4.3220e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.02	0.99
tblVehicleEF	SBUS	4.62	6.19
tblVehicleEF	SBUS	35.49	38.94
tblVehicleEF	SBUS	556.78	563.29
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.66	7.75
tblVehicleEF	SBUS	7.17	7.37
tblVehicleEF	SBUS	2.64	2.69
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.35	2.80
tblVehicleEF	SBUS	5.7740e-003	5.7480e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9360e-003	2.0510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.51	3.00
tblVehicleEF	SBUS	4.1340e-003	4.0730e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	0.74	0.72

tblVehicleEF	SBUS	4.64	6.04
tblVehicleEF	SBUS	29.55	32.78
tblVehicleEF	SBUS	589.86	596.75
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.91	8.00
tblVehicleEF	SBUS	6.88	7.07
tblVehicleEF	SBUS	2.47	2.52
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.41	0.47
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.06	2.43
tblVehicleEF	SBUS	6.1170e-003	6.0890e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	1.8340e-003	1.9430e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.20	2.60
tblVehicleEF	SBUS	4.7350e-003	4.6660e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.41	1.37
tblVehicleEF	SBUS	4.62	6.29
tblVehicleEF	SBUS	38.45	42.02
tblVehicleEF	SBUS	511.10	517.07
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.32	7.40
tblVehicleEF	SBUS	7.15	7.34
tblVehicleEF	SBUS	2.72	2.77
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.49	2.99
tblVehicleEF	SBUS	5.3000e-003	5.2760e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9870e-003	2.1050e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.44	0.52
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.66	3.20
tblVehicleEF	UBUS	3.05	3.27
tblVehicleEF	UBUS	5.69	5.79
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.19	11.63
tblVehicleEF	UBUS	0.89	0.88
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004

tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.52	0.53
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.5800e-004	3.6100e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.56	0.56
tblVehicleEF	UBUS	3.08	3.29
tblVehicleEF	UBUS	4.68	4.77
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	10.79	11.22
tblVehicleEF	UBUS	0.84	0.84
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003

tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.46	0.47
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.4100e-004	3.4400e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.50	0.50
tblVehicleEF	UBUS	3.04	3.26
tblVehicleEF	UBUS	6.13	6.23
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.14	11.58
tblVehicleEF	UBUS	0.91	0.90
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.59	0.61

tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.6600e-004	3.6900e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.66	0.69
tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.58	0.59

## 2.0 Emissions Summary

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Offroad	19.0982	191.9810	108.7083	0.3449		7.1552	7.1552		6.5928	6.5928		34,077.46 16	34,077.46 16	10.7431		34,303.06 56
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.46 16</b>	<b>34,077.46 16</b>	<b>10.7431</b>		<b>34,303.06 56</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Offroad	19.0982	191.9810	108.7083	0.3449		7.1552	7.1552		6.5928	6.5928		34,077.46 16	34,077.46 16	10.7431		34,303.06 56
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.46 16</b>	<b>34,077.46 16</b>	<b>10.7431</b>		<b>34,303.06 56</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
<b>Percent Reduction</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mobilize	Building Construction	1/4/2018	3/31/2018	6	75	
2	Worker Trips	Building Construction	1/4/2018	12/31/2018	6	310	
3	Pipe Installation	Site Preparation	1/9/2018	12/31/2018	6	306	
4	Augur Bore 1	Trenching	2/6/2018	4/23/2018	6	66	
5	Civil Work 1	Building Construction	2/13/2018	4/22/2018	6	59	
6	Grind and Cap	Paving	2/25/2018	12/31/2018	6	265	
7	Demobilize 1	Building Construction	3/16/2018	4/19/2018	6	30	
8	HDD	Trenching	4/16/2018	9/14/2018	6	131	
9	Civil Work 2	Building Construction	4/27/2018	6/1/2018	6	31	
10	Augur Bore 2	Trenching	5/4/2018	7/14/2018	6	62	
11	Hydrotest	Building Construction	10/10/2018	12/31/2018	6	71	
12	Demobilize 2	Building Construction	11/26/2018	12/31/2018	6	31	

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
Mobilize	Cranes	0	4.00	226	0.29
Mobilize	Forklifts	0	6.00	89	0.20
Mobilize	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Worker Trips	Cranes	0	4.00	226	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Air Compressors	28	6.00	78	0.48
Pipe Installation	Concrete/Industrial Saws	8	5.00	81	0.73
Pipe Installation	Cranes	5	7.00	226	0.29
Pipe Installation	Crawler Tractors	3	8.00	208	0.43
Augur Bore 1	Air Compressors	3	5.00	78	0.48
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Pipe Installation	Excavators	18	7.00	162	0.38
Pipe Installation	Excavators	10	7.00	162	0.38
Hydrotest	Excavators	2	6.00	162	0.38
Pipe Installation	Off-Highway Trucks	0	6.00	174	0.41
Pipe Installation	Off-Highway Trucks	5	8.00	400	0.38
Pipe Installation	Off-Highway Trucks	5	6.00	400	0.38
Pipe Installation	Graders	1	8.00	174	0.41
Pipe Installation	Other General Industrial Equipment	5	6.00	87	0.34
Pipe Installation	Rough Terrain Forklifts	5	6.00	100	0.40
Pipe Installation	Rubber Tired Loaders	3	8.00	199	0.36
Pipe Installation	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Pipe Installation	Welders	40	7.00	46	0.45
Augur Bore 1	Bore/Drill Rigs	3	5.00	205	0.50
Augur Bore 1	Cranes	3	6.00	226	0.29
Augur Bore 1	Cranes	3	6.00	226	0.29
Augur Bore 1	Off-Highway Trucks	3	5.00	400	0.38
Augur Bore 1	Welders	6	6.00	46	0.45

Civil Work 1	Air Compressors	4	5.00	78	0.48
Civil Work 1	Cranes	0	4.00	226	0.29
Civil Work 1	Forklifts	0	6.00	89	0.20
Civil Work 1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Civil Work 1	Tractors/Loaders/Backhoes	0	5.00	97	0.37
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	7.00	125	0.42
Grind and Cap	Paving Equipment	4	5.00	130	0.36
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Demobilize 1	Cranes	0	4.00	226	0.29
Demobilize 1	Cranes	0	12.00	226	0.29
Demobilize 1	Forklifts	0	6.00	89	0.20
Demobilize 1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
HDD	Bore/Drill Rigs	3	7.00	205	0.50
HDD	Cranes	3	6.00	226	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	171	0.42
HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40
Civil Work 2	Air Compressors	1	6.00	78	0.48
Civil Work 2	Cranes	0	4.00	226	0.29
Civil Work 2	Forklifts	0	6.00	89	0.20
Civil Work 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Civil Work 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Augur Bore 2	Bore/Drill Rigs	1	6.00	205	0.50
Augur Bore 2	Cranes	1	7.00	226	0.29
Augur Bore 2	Cranes	1	7.00	226	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	400	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hydrotest	Welders	4	7.00	46	0.45
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Cranes	0	10.00	226	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Air Compressors	10	6.00	78	0.48
Pipe Installation	Other Material Handling Equipment	1	1.00	75	0.40
Pipe Installation	Excavators	5	6.00	162	0.38
Pipe Installation	Excavators	10	6.00	162	0.38
Pipe Installation	Generator Sets	10	8.00	84	0.74
Pipe Installation	Bore/Drill Rigs	5	7.00	205	0.50
Pipe Installation	Rollers	4	6.00	80	0.38

**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
Mobilize	0	0.00	15.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	1.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Hydrotest	12	2.00	6.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	30.00	30.00	LD_Mix	MHDT	HHDT
Pipe Installation	212	68.00	121.00	59,003.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 1	21	3.00	9.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 1	4	4.00	4.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	2,603.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 1	0	0.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	3.00	3.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 2	1	1.00	1.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Mobilize - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2948	3.7096	2.1319	0.0143	9.3920	0.0848	9.4769	1.0471	0.0781	1.1251		1,394.681 1	1,394.681 1	8.7800e- 003		1,394.865 5
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.2948</b>	<b>3.7096</b>	<b>2.1319</b>	<b>0.0143</b>	<b>9.3920</b>	<b>0.0848</b>	<b>9.4769</b>	<b>1.0471</b>	<b>0.0781</b>	<b>1.1251</b>		<b>1,394.681 1</b>	<b>1,394.681 1</b>	<b>8.7800e- 003</b>		<b>1,394.865 5</b>

### 3.2 Mobilize - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.0000	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>	<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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2948	3.7096	2.1319	0.0143	2.9944	0.0848	3.0792	0.4084	0.0781	0.4864		1,394.681 1	1,394.681 1	8.7800e- 003			1,394.865 5
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.2948</b>	<b>3.7096</b>	<b>2.1319</b>	<b>0.0143</b>	<b>2.9944</b>	<b>0.0848</b>	<b>3.0792</b>	<b>0.4084</b>	<b>0.0781</b>	<b>0.4864</b>		<b>1,394.681 1</b>	<b>1,394.681 1</b>	<b>8.7800e- 003</b>			<b>1,394.865 5</b>

### 3.3 Worker Trips - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3828	4.5511	2.8781	0.0173	11.2706	0.1022	11.3728	1.2566	0.0940	1.3506		1,682.8681	1,682.8681	0.0107			1,683.0919
Worker	2.6235	5.8735	51.1536	0.1598	13.6808	0.0891	13.7698	3.6274	0.0824	3.7098		12,349.8250	12,349.8250	0.5922			12,362.2617
<b>Total</b>	<b>3.0063</b>	<b>10.4246</b>	<b>54.0316</b>	<b>0.1770</b>	<b>24.9513</b>	<b>0.1913</b>	<b>25.1426</b>	<b>4.8840</b>	<b>0.1765</b>	<b>5.0604</b>		<b>14,032.6931</b>	<b>14,032.6931</b>	<b>0.6029</b>			<b>14,045.3536</b>

### 3.3 Worker Trips - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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>	<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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3828	4.5511	2.8781	0.0173	3.5934	0.1022	3.6956	0.4901	0.0940	0.5842		1,682.8681	1,682.8681	0.0107		1,683.0919
Worker	2.6235	5.8735	51.1536	0.1598	13.6808	0.0891	13.7698	3.6274	0.0824	3.7098		12,349.8250	12,349.8250	0.5922		12,362.2617
<b>Total</b>	<b>3.0063</b>	<b>10.4246</b>	<b>54.0316</b>	<b>0.1770</b>	<b>17.2742</b>	<b>0.1913</b>	<b>17.4655</b>	<b>4.1175</b>	<b>0.1765</b>	<b>4.2940</b>		<b>14,032.6931</b>	<b>14,032.6931</b>	<b>0.6029</b>		<b>14,045.3536</b>

### 3.4 Pipe Installation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4126	0.0000	0.4126	0.0579	0.0000	0.0579			0.0000			0.0000
Off-Road	68.0962	562.0281	459.9438	0.8146		31.4811	31.4811		30.0546	30.0546		78,982.23 12	78,982.23 12	19.2239		79,385.93 34
<b>Total</b>	<b>68.0962</b>	<b>562.0281</b>	<b>459.9438</b>	<b>0.8146</b>	<b>0.4126</b>	<b>31.4811</b>	<b>31.8937</b>	<b>0.0579</b>	<b>30.0546</b>	<b>30.1126</b>		<b>78,982.23 12</b>	<b>78,982.23 12</b>	<b>19.2239</b>		<b>79,385.93 34</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.7831	85.8231	58.5216	0.2835	120.1814	1.2743	121.4557	13.1528	1.1723	14.3251		27,708.65 97	27,708.65 97	0.1891		27,712.63 09
Vendor	2.3781	29.9239	17.1975	0.1155	75.7623	0.6844	76.4467	8.4465	0.6296	9.0761		11,250.42 74	11,250.42 74	0.0709		11,251.91 52
Worker	0.3441	0.8772	7.5657	0.0241	2.0671	0.0133	2.0804	0.5481	0.0123	0.5603		1,861.341 4	1,861.341 4	0.0888		1,863.206 5
<b>Total</b>	<b>8.5053</b>	<b>116.6241</b>	<b>83.2847</b>	<b>0.4231</b>	<b>198.0107</b>	<b>1.9720</b>	<b>199.9828</b>	<b>22.1473</b>	<b>1.8142</b>	<b>23.9615</b>		<b>40,820.42 85</b>	<b>40,820.42 85</b>	<b>0.3488</b>		<b>40,827.75 27</b>

### 3.4 Pipe Installation - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1857	0.0000	0.1857	0.0261	0.0000	0.0261			0.0000			0.0000
Off-Road	20.5643	408.3505	522.7132	0.8146		22.6624	22.6624		22.6624	22.6624	0.0000	78,982.23 11	78,982.23 11	19.2239		79,385.93 33
<b>Total</b>	<b>20.5643</b>	<b>408.3505</b>	<b>522.7132</b>	<b>0.8146</b>	<b>0.1857</b>	<b>22.6624</b>	<b>22.8480</b>	<b>0.0261</b>	<b>22.6624</b>	<b>22.6885</b>	<b>0.0000</b>	<b>78,982.23 11</b>	<b>78,982.23 11</b>	<b>19.2239</b>		<b>79,385.93 33</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	lb/day										lb/day					
Hauling	5.7831	85.8231	58.5216	0.2835	37.9417	1.2743	39.2160	4.9426	1.1723	6.1149		27,708.65 97	27,708.65 97	0.1891		27,712.63 09
Vendor	2.3781	29.9239	17.1975	0.1155	24.1546	0.6844	24.8390	3.2943	0.6296	3.9239		11,250.42 74	11,250.42 74	0.0709		11,251.91 52
Worker	0.3441	0.8772	7.5657	0.0241	2.0671	0.0133	2.0804	0.5481	0.0123	0.5603		1,861.341 4	1,861.341 4	0.0888		1,863.206 5
<b>Total</b>	<b>8.5053</b>	<b>116.6241</b>	<b>83.2847</b>	<b>0.4231</b>	<b>64.1634</b>	<b>1.9720</b>	<b>66.1354</b>	<b>8.7849</b>	<b>1.8142</b>	<b>10.5992</b>		<b>40,820.42 85</b>	<b>40,820.42 85</b>	<b>0.3488</b>		<b>40,827.75 27</b>

**3.5 Augur Bore 1 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.2138	65.4422	35.5807	0.0853		2.9602	2.9602		2.7943	2.7943		8,316.5070	8,316.5070	2.3253		8,365.3376
<b>Total</b>	<b>7.2138</b>	<b>65.4422</b>	<b>35.5807</b>	<b>0.0853</b>		<b>2.9602</b>	<b>2.9602</b>		<b>2.7943</b>	<b>2.7943</b>		<b>8,316.5070</b>	<b>8,316.5070</b>	<b>2.3253</b>		<b>8,365.3376</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1769	2.2257	1.2792	8.5900e-003	5.6352	0.0509	5.6861	0.6283	0.0468	0.6751		836.8087	836.8087	5.2700e-003		836.9193
Worker	0.0152	0.0387	0.3338	1.0600e-003	0.0912	5.9000e-004	0.0918	0.0242	5.4000e-004	0.0247		82.1180	82.1180	3.9200e-003		82.2003
<b>Total</b>	<b>0.1921</b>	<b>2.2644</b>	<b>1.6129</b>	<b>9.6500e-003</b>	<b>5.7264</b>	<b>0.0515</b>	<b>5.7779</b>	<b>0.6524</b>	<b>0.0474</b>	<b>0.6998</b>		<b>918.9267</b>	<b>918.9267</b>	<b>9.1900e-003</b>		<b>919.1196</b>

**3.5 Augur Bore 1 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2592	42.5923	46.7232	0.0853		1.8961	1.8961		1.8961	1.8961	0.0000	8,316.5070	8,316.5070	2.3253		8,365.3376
<b>Total</b>	<b>2.2592</b>	<b>42.5923</b>	<b>46.7232</b>	<b>0.0853</b>		<b>1.8961</b>	<b>1.8961</b>		<b>1.8961</b>	<b>1.8961</b>	<b>0.0000</b>	<b>8,316.5070</b>	<b>8,316.5070</b>	<b>2.3253</b>		<b>8,365.3376</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1769	2.2257	1.2792	8.5900e-003	1.7966	0.0509	1.8475	0.2450	0.0468	0.2919		836.8087	836.8087	5.2700e-003		836.9193
Worker	0.0152	0.0387	0.3338	1.0600e-003	0.0912	5.9000e-004	0.0918	0.0242	5.4000e-004	0.0247		82.1180	82.1180	3.9200e-003		82.2003
<b>Total</b>	<b>0.1921</b>	<b>2.2644</b>	<b>1.6129</b>	<b>9.6500e-003</b>	<b>1.8878</b>	<b>0.0515</b>	<b>1.9393</b>	<b>0.2692</b>	<b>0.0474</b>	<b>0.3166</b>		<b>918.9267</b>	<b>918.9267</b>	<b>9.1900e-003</b>		<b>919.1196</b>

**3.6 Civil Work 1 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9955	6.6858	6.1807	9.9000e-003		0.5019	0.5019		0.5019	0.5019		938.1618	938.1618	0.0891		940.0338
<b>Total</b>	<b>0.9955</b>	<b>6.6858</b>	<b>6.1807</b>	<b>9.9000e-003</b>		<b>0.5019</b>	<b>0.5019</b>		<b>0.5019</b>	<b>0.5019</b>		<b>938.1618</b>	<b>938.1618</b>	<b>0.0891</b>		<b>940.0338</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0786	0.9892	0.5685	3.8200e-003	2.5045	0.0226	2.5272	0.2792	0.0208	0.3000		371.9150	371.9150	2.3400e-003		371.9641
Worker	0.0202	0.0516	0.4450	1.4200e-003	0.1216	7.8000e-004	0.1224	0.0322	7.2000e-004	0.0330		109.4907	109.4907	5.2200e-003		109.6004
<b>Total</b>	<b>0.0989</b>	<b>1.0408</b>	<b>1.0136</b>	<b>5.2400e-003</b>	<b>2.6261</b>	<b>0.0234</b>	<b>2.6495</b>	<b>0.3115</b>	<b>0.0215</b>	<b>0.3330</b>		<b>481.4056</b>	<b>481.4056</b>	<b>7.5600e-003</b>		<b>481.5645</b>

**3.6 Civil Work 1 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1981	4.5233	6.1080	9.9000e-003		0.3170	0.3170		0.3170	0.3170	0.0000	938.1618	938.1618	0.0891		940.0338
<b>Total</b>	<b>0.1981</b>	<b>4.5233</b>	<b>6.1080</b>	<b>9.9000e-003</b>		<b>0.3170</b>	<b>0.3170</b>		<b>0.3170</b>	<b>0.3170</b>	<b>0.0000</b>	<b>938.1618</b>	<b>938.1618</b>	<b>0.0891</b>		<b>940.0338</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0786	0.9892	0.5685	3.8200e-003	0.7985	0.0226	0.8211	0.1089	0.0208	0.1297		371.9150	371.9150	2.3400e-003		371.9641
Worker	0.0202	0.0516	0.4450	1.4200e-003	0.1216	7.8000e-004	0.1224	0.0322	7.2000e-004	0.0330		109.4907	109.4907	5.2200e-003		109.6004
<b>Total</b>	<b>0.0989</b>	<b>1.0408</b>	<b>1.0136</b>	<b>5.2400e-003</b>	<b>0.9201</b>	<b>0.0234</b>	<b>0.9435</b>	<b>0.1411</b>	<b>0.0215</b>	<b>0.1627</b>		<b>481.4056</b>	<b>481.4056</b>	<b>7.5600e-003</b>		<b>481.5645</b>

### 3.7 Grind and Cap - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8328	32.0383	28.0899	0.0418		2.2215	2.2215		2.1102	2.1102		4,101.9015	4,101.9015	0.9118		4,121.0493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>3.8328</b>	<b>32.0383</b>	<b>28.0899</b>	<b>0.0418</b>		<b>2.2215</b>	<b>2.2215</b>		<b>2.1102</b>	<b>2.1102</b>		<b>4,101.9015</b>	<b>4,101.9015</b>	<b>0.9118</b>		<b>4,121.0493</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2946	4.3720	2.9812	0.0144	6.1223	0.0649	6.1872	0.6700	0.0597	0.7298		1,411.5334	1,411.5334	9.6300e-003		1,411.7357
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0202	0.0516	0.4450	1.4200e-003	0.1216	7.8000e-004	0.1224	0.0322	7.2000e-004	0.0330		109.4907	109.4907	5.2200e-003		109.6004
<b>Total</b>	<b>0.3148</b>	<b>4.4236</b>	<b>3.4262</b>	<b>0.0159</b>	<b>6.2439</b>	<b>0.0657</b>	<b>6.3096</b>	<b>0.7023</b>	<b>0.0604</b>	<b>0.7627</b>		<b>1,521.0240</b>	<b>1,521.0240</b>	<b>0.0149</b>		<b>1,521.3360</b>

### 3.7 Grind and Cap - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9472	20.7613	29.2057	0.0418		1.3505	1.3505		1.3505	1.3505	0.0000	4,101.9015	4,101.9015	0.9118		4,121.0493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9472</b>	<b>20.7613</b>	<b>29.2057</b>	<b>0.0418</b>		<b>1.3505</b>	<b>1.3505</b>		<b>1.3505</b>	<b>1.3505</b>	<b>0.0000</b>	<b>4,101.9015</b>	<b>4,101.9015</b>	<b>0.9118</b>		<b>4,121.0493</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	lb/day										lb/day					
Hauling	0.2946	4.3720	2.9812	0.0144	1.9328	0.0649	1.9977	0.2518	0.0597	0.3115		1,411.5334	1,411.5334	9.6300e-003		1,411.7357
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0202	0.0516	0.4450	1.4200e-003	0.1216	7.8000e-004	0.1224	0.0322	7.2000e-004	0.0330		109.4907	109.4907	5.2200e-003		109.6004
<b>Total</b>	<b>0.3148</b>	<b>4.4236</b>	<b>3.4262</b>	<b>0.0159</b>	<b>2.0544</b>	<b>0.0657</b>	<b>2.1201</b>	<b>0.2840</b>	<b>0.0604</b>	<b>0.3445</b>		<b>1,521.0240</b>	<b>1,521.0240</b>	<b>0.0149</b>		<b>1,521.3360</b>

**3.8 Demobilize 1 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0590	0.7419	0.4264	2.8600e-003	1.8784	0.0170	1.8954	0.2094	0.0156	0.2250		278.9362	278.9362	1.7600e-003		278.9731
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0590</b>	<b>0.7419</b>	<b>0.4264</b>	<b>2.8600e-003</b>	<b>1.8784</b>	<b>0.0170</b>	<b>1.8954</b>	<b>0.2094</b>	<b>0.0156</b>	<b>0.2250</b>		<b>278.9362</b>	<b>278.9362</b>	<b>1.7600e-003</b>		<b>278.9731</b>

**3.8 Demobilize 1 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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>	<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 Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0590	0.7419	0.4264	2.8600e-003	0.5989	0.0170	0.6158	0.0817	0.0156	0.0973		278.9362	278.9362	1.7600e-003		278.9731
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0590</b>	<b>0.7419</b>	<b>0.4264</b>	<b>2.8600e-003</b>	<b>0.5989</b>	<b>0.0170</b>	<b>0.6158</b>	<b>0.0817</b>	<b>0.0156</b>	<b>0.0973</b>		<b>278.9362</b>	<b>278.9362</b>	<b>1.7600e-003</b>		<b>278.9731</b>

**3.9 HDD - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	8.4512	82.2175	59.9161	0.1173		4.3994	4.3994		4.2434	4.2434		11,457.1792	11,457.1792	2.2397		11,504.2121
<b>Total</b>	<b>8.4512</b>	<b>82.2175</b>	<b>59.9161</b>	<b>0.1173</b>		<b>4.3994</b>	<b>4.3994</b>		<b>4.2434</b>	<b>4.2434</b>		<b>11,457.1792</b>	<b>11,457.1792</b>	<b>2.2397</b>		<b>11,504.2121</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0590	0.7419	0.4264	2.8600e-003	1.8784	0.0170	1.8954	0.2094	0.0156	0.2250		278.9362	278.9362	1.7600e-003		278.9731
Worker	0.0152	0.0387	0.3338	1.0600e-003	0.0912	5.9000e-004	0.0918	0.0242	5.4000e-004	0.0247		82.1180	82.1180	3.9200e-003		82.2003
<b>Total</b>	<b>0.0741</b>	<b>0.7806</b>	<b>0.7602</b>	<b>3.9200e-003</b>	<b>1.9696</b>	<b>0.0176</b>	<b>1.9872</b>	<b>0.2336</b>	<b>0.0162</b>	<b>0.2498</b>		<b>361.0542</b>	<b>361.0542</b>	<b>5.6800e-003</b>		<b>361.1734</b>

**3.9 HDD - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6233	55.4170	72.8046	0.1173		3.1673	3.1673		3.1673	3.1673	0.0000	11,457.1792	11,457.1792	2.2397		11,504.2121
<b>Total</b>	<b>2.6233</b>	<b>55.4170</b>	<b>72.8046</b>	<b>0.1173</b>		<b>3.1673</b>	<b>3.1673</b>		<b>3.1673</b>	<b>3.1673</b>	<b>0.0000</b>	<b>11,457.1792</b>	<b>11,457.1792</b>	<b>2.2397</b>		<b>11,504.2121</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0590	0.7419	0.4264	2.8600e-003	0.5989	0.0170	0.6158	0.0817	0.0156	0.0973		278.9362	278.9362	1.7600e-003		278.9731
Worker	0.0152	0.0387	0.3338	1.0600e-003	0.0912	5.9000e-004	0.0918	0.0242	5.4000e-004	0.0247		82.1180	82.1180	3.9200e-003		82.2003
<b>Total</b>	<b>0.0741</b>	<b>0.7806</b>	<b>0.7602</b>	<b>3.9200e-003</b>	<b>0.6901</b>	<b>0.0176</b>	<b>0.7076</b>	<b>0.1059</b>	<b>0.0162</b>	<b>0.1220</b>		<b>361.0542</b>	<b>361.0542</b>	<b>5.6800e-003</b>		<b>361.1734</b>

**3.10 Civil Work 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>0.2986</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.2473	0.1421	9.5000e-004	0.6261	5.6600e-003	0.6318	0.0698	5.2000e-003	0.0750		92.9787	92.9787	5.9000e-004		92.9910
Worker	5.0600e-003	0.0129	0.1113	3.5000e-004	0.0304	2.0000e-004	0.0306	8.0600e-003	1.8000e-004	8.2400e-003		27.3727	27.3727	1.3100e-003		27.4001
<b>Total</b>	<b>0.0247</b>	<b>0.2602</b>	<b>0.2534</b>	<b>1.3000e-003</b>	<b>0.6565</b>	<b>5.8600e-003</b>	<b>0.6624</b>	<b>0.0779</b>	<b>5.3800e-003</b>	<b>0.0833</b>		<b>120.3514</b>	<b>120.3514</b>	<b>1.9000e-003</b>		<b>120.3911</b>

**3.10 Civil Work 2 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>0.0594</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.2473	0.1421	9.5000e-004	0.1996	5.6600e-003	0.2053	0.0272	5.2000e-003	0.0324		92.9787	92.9787	5.9000e-004		92.9910
Worker	5.0600e-003	0.0129	0.1113	3.5000e-004	0.0304	2.0000e-004	0.0306	8.0600e-003	1.8000e-004	8.2400e-003		27.3727	27.3727	1.3100e-003		27.4001
<b>Total</b>	<b>0.0247</b>	<b>0.2602</b>	<b>0.2534</b>	<b>1.3000e-003</b>	<b>0.2300</b>	<b>5.8600e-003</b>	<b>0.2359</b>	<b>0.0353</b>	<b>5.3800e-003</b>	<b>0.0407</b>		<b>120.3514</b>	<b>120.3514</b>	<b>1.9000e-003</b>		<b>120.3911</b>

**3.11 Augur Bore 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8355	25.7591	14.0160	0.0337		1.1640	1.1640		1.0988	1.0988		3,287.8274	3,287.8274	0.9193		3,307.1322
<b>Total</b>	<b>2.8355</b>	<b>25.7591</b>	<b>14.0160</b>	<b>0.0337</b>		<b>1.1640</b>	<b>1.1640</b>		<b>1.0988</b>	<b>1.0988</b>		<b>3,287.8274</b>	<b>3,287.8274</b>	<b>0.9193</b>		<b>3,307.1322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0590	0.7419	0.4264	2.8600e-003	1.8784	0.0170	1.8954	0.2094	0.0156	0.2250		278.9362	278.9362	1.7600e-003		278.9731
Worker	5.0600e-003	0.0129	0.1113	3.5000e-004	0.0304	2.0000e-004	0.0306	8.0600e-003	1.8000e-004	8.2400e-003		27.3727	27.3727	1.3100e-003		27.4001
<b>Total</b>	<b>0.0640</b>	<b>0.7548</b>	<b>0.5376</b>	<b>3.2100e-003</b>	<b>1.9088</b>	<b>0.0172</b>	<b>1.9260</b>	<b>0.2175</b>	<b>0.0158</b>	<b>0.2333</b>		<b>306.3089</b>	<b>306.3089</b>	<b>3.0700e-003</b>		<b>306.3732</b>

### 3.11 Augur Bore 2 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8914	16.8183	18.4642	0.0337		0.7482	0.7482		0.7482	0.7482	0.0000	3,287.8274	3,287.8274	0.9193		3,307.1322
<b>Total</b>	<b>0.8914</b>	<b>16.8183</b>	<b>18.4642</b>	<b>0.0337</b>		<b>0.7482</b>	<b>0.7482</b>		<b>0.7482</b>	<b>0.7482</b>	<b>0.0000</b>	<b>3,287.8274</b>	<b>3,287.8274</b>	<b>0.9193</b>		<b>3,307.1322</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0590	0.7419	0.4264	2.8600e-003	0.5989	0.0170	0.6158	0.0817	0.0156	0.0973		278.9362	278.9362	1.7600e-003		278.9731
Worker	5.0600e-003	0.0129	0.1113	3.5000e-004	0.0304	2.0000e-004	0.0306	8.0600e-003	1.8000e-004	8.2400e-003		27.3727	27.3727	1.3100e-003		27.4001
<b>Total</b>	<b>0.0640</b>	<b>0.7548</b>	<b>0.5376</b>	<b>3.2100e-003</b>	<b>0.6293</b>	<b>0.0172</b>	<b>0.6464</b>	<b>0.0897</b>	<b>0.0158</b>	<b>0.1055</b>		<b>306.3089</b>	<b>306.3089</b>	<b>3.0700e-003</b>		<b>306.3732</b>

### 3.12 Hydrotect - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.6306	34.4827	27.0155	0.0454		1.9853	1.9853		1.9263	1.9263		4,286.2909	4,286.2909	0.8467		4,304.0712
<b>Total</b>	<b>4.6306</b>	<b>34.4827</b>	<b>27.0155</b>	<b>0.0454</b>		<b>1.9853</b>	<b>1.9853</b>		<b>1.9263</b>	<b>1.9263</b>		<b>4,286.2909</b>	<b>4,286.2909</b>	<b>0.8467</b>		<b>4,304.0712</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1179	1.4838	0.8528	5.7300e-003	3.7568	0.0339	3.7907	0.4188	0.0312	0.4501		557.8724	557.8724	3.5100e-003		557.9462
Worker	0.0101	0.0258	0.2225	7.1000e-004	0.0608	3.9000e-004	0.0612	0.0161	3.6000e-004	0.0165		54.7453	54.7453	2.6100e-003		54.8002
<b>Total</b>	<b>0.1280</b>	<b>1.5096</b>	<b>1.0753</b>	<b>6.4400e-003</b>	<b>3.8176</b>	<b>0.0343</b>	<b>3.8519</b>	<b>0.4350</b>	<b>0.0316</b>	<b>0.4665</b>		<b>612.6178</b>	<b>612.6178</b>	<b>6.1200e-003</b>		<b>612.7464</b>

### 3.12 Hydrotect - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1820	22.9065	28.0324	0.0454		1.3147	1.3147		1.3147	1.3147	0.0000	4,286.2909	4,286.2909	0.8467		4,304.0712
<b>Total</b>	<b>1.1820</b>	<b>22.9065</b>	<b>28.0324</b>	<b>0.0454</b>		<b>1.3147</b>	<b>1.3147</b>		<b>1.3147</b>	<b>1.3147</b>	<b>0.0000</b>	<b>4,286.2909</b>	<b>4,286.2909</b>	<b>0.8467</b>		<b>4,304.0712</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1179	1.4838	0.8528	5.7300e-003	1.1978	0.0339	1.2317	0.1634	0.0312	0.1946		557.8724	557.8724	3.5100e-003		557.9462
Worker	0.0101	0.0258	0.2225	7.1000e-004	0.0608	3.9000e-004	0.0612	0.0161	3.6000e-004	0.0165		54.7453	54.7453	2.6100e-003		54.8002
<b>Total</b>	<b>0.1280</b>	<b>1.5096</b>	<b>1.0753</b>	<b>6.4400e-003</b>	<b>1.2586</b>	<b>0.0343</b>	<b>1.2929</b>	<b>0.1795</b>	<b>0.0316</b>	<b>0.2111</b>		<b>612.6178</b>	<b>612.6178</b>	<b>6.1200e-003</b>		<b>612.7464</b>

**3.13 Demobilize 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2358	2.9677	1.7055	0.0115	7.5136	0.0679	7.5815	0.8377	0.0624	0.9001		1,115.7449	1,115.7449	7.0300e-003		1,115.8924
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.2358</b>	<b>2.9677</b>	<b>1.7055</b>	<b>0.0115</b>	<b>7.5136</b>	<b>0.0679</b>	<b>7.5815</b>	<b>0.8377</b>	<b>0.0624</b>	<b>0.9001</b>		<b>1,115.7449</b>	<b>1,115.7449</b>	<b>7.0300e-003</b>		<b>1,115.8924</b>

**3.13 Demobilize 2 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	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>	<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 Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2358	2.9677	1.7055	0.0115	2.3955	0.0679	2.4634	0.3267	0.0624	0.3892		1,115.744 9	1,115.744 9	7.0300e- 003		1,115.892 4
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.2358</b>	<b>2.9677</b>	<b>1.7055</b>	<b>0.0115</b>	<b>2.3955</b>	<b>0.0679</b>	<b>2.4634</b>	<b>0.3267</b>	<b>0.0624</b>	<b>0.3892</b>		<b>1,115.744 9</b>	<b>1,115.744 9</b>	<b>7.0300e- 003</b>		<b>1,115.892 4</b>

**4.0 Operational Detail - Mobile**

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#### 4.1 Mitigation Measures Mobile

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

#### 5.0 Energy Detail

#### 5.1 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

#### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	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

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	62	0.31	Diesel
Cranes	1	10.00	1	226	0.29	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	6	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	4	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	2	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	240	400	0.38	Diesel
Off-Highway Trucks	1	10.00	12	400	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

**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	lb/day										lb/day					
Aerial Lifts	0.0501	0.8375	1.3443	2.0700e-003		0.0206	0.0206		0.0189	0.0189		204.4937	204.4937	0.0647		205.8524
Cranes	0.6164	7.3462	2.8043	7.0500e-003		0.3114	0.3114		0.2865	0.2865		698.5584	698.5584	0.2210		703.1997
Off-Highway Trucks	17.6593	178.8452	99.4225	0.3287		6.5036	6.5036		5.9834	5.9834		32,530.6350	32,530.6350	10.2924		32,746.7743
Tractors/Loaders/Backhoes	0.2910	2.9217	2.8784	3.8800e-003		0.1951	0.1951		0.1795	0.1795		384.4273	384.4273	0.1216		386.9815
Welders	0.4815	2.0303	2.2590	3.1900e-003		0.1246	0.1246		0.1246	0.1246		259.3472	259.3472	0.0434		260.2576
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.4616</b>	<b>34,077.4616</b>	<b>10.7431</b>		<b>34,303.0656</b>

**10.0 Vegetation**

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**Pipeline Safety & Reliability Project**  
**San Diego County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume all trips are paved.

Grading - Total Area Disturbed = 0, all work will be done in urban areas within pavement

Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	45.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00



tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
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tblTripsAndVMT	PhaseName		Grind and Cap
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tblVehicleEF	HHD	0.07	0.07
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tblVehicleEF	HHD	1.4520e-003	1.5750e-003
tblVehicleEF	HHD	0.26	0.27
tblVehicleEF	HHD	0.60	0.66
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tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.87	0.94

tblVehicleEF	LDA	2.12	2.29
tblVehicleEF	LDA	255.43	266.09
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	7.7200e-004	7.7400e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.97	1.05
tblVehicleEF	LDA	1.58	1.71
tblVehicleEF	LDA	269.94	281.19

tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	7.6200e-004	7.6400e-004
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.22	0.24
tblVehicleEF	LDA	0.14	0.16
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	9.1840e-003	0.01
tblVehicleEF	LDA	0.85	0.93
tblVehicleEF	LDA	2.32	2.51
tblVehicleEF	LDA	252.81	263.35
tblVehicleEF	LDA	54.71	57.02
tblVehicleEF	LDA	0.51	0.51

tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.8000e-003	1.7970e-003
tblVehicleEF	LDA	3.2510e-003	3.0930e-003
tblVehicleEF	LDA	1.6690e-003	1.6610e-003
tblVehicleEF	LDA	3.0150e-003	2.8610e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	7.7500e-004	7.7800e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.28	0.29
tblVehicleEF	LDA	0.19	0.20
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.68	1.82
tblVehicleEF	LDT1	4.00	4.33
tblVehicleEF	LDT1	309.85	320.90
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.23	0.25

tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	4.1290e-003	4.1270e-003
tblVehicleEF	LDT1	9.1600e-004	9.2000e-004
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.24	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.82	0.85
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.85	2.00
tblVehicleEF	LDT1	3.01	3.26
tblVehicleEF	LDT1	326.49	338.09
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003

tblVehicleEF	LDT1	4.4960e-003	4.5320e-003
tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	4.3540e-003	4.3530e-003
tblVehicleEF	LDT1	8.9800e-004	9.0100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.26
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.74	0.77
tblVehicleEF	LDT1	0.26	0.28
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.65	1.79
tblVehicleEF	LDT1	4.37	4.74
tblVehicleEF	LDT1	306.84	317.78
tblVehicleEF	LDT1	66.03	68.28
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.21
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	3.0480e-003	3.1740e-003
tblVehicleEF	LDT1	4.4960e-003	4.5320e-003

tblVehicleEF	LDT1	2.8260e-003	2.9390e-003
tblVehicleEF	LDT1	4.1690e-003	4.1980e-003
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	4.0880e-003	4.0870e-003
tblVehicleEF	LDT1	9.2200e-004	9.2700e-004
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.27	0.28
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	1.00	1.05
tblVehicleEF	LDT1	0.33	0.36
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.01	1.10
tblVehicleEF	LDT2	2.42	2.66
tblVehicleEF	LDT2	378.64	391.32
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003

tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.8450e-003	4.8470e-003
tblVehicleEF	LDT2	1.0450e-003	1.0480e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.14	0.14
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.42	0.44
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	1.12	1.22
tblVehicleEF	LDT2	1.81	2.00
tblVehicleEF	LDT2	399.61	412.98
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.19	0.22
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	5.1160e-003	5.1180e-003
tblVehicleEF	LDT2	1.0340e-003	1.0370e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.39	0.40
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	9.2050e-003	0.01
tblVehicleEF	LDT2	0.99	1.08
tblVehicleEF	LDT2	2.65	2.92
tblVehicleEF	LDT2	374.85	387.40
tblVehicleEF	LDT2	80.44	83.07
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	1.7380e-003	1.7260e-003
tblVehicleEF	LDT2	3.1650e-003	3.0100e-003
tblVehicleEF	LDT2	1.6110e-003	1.5980e-003
tblVehicleEF	LDT2	2.9350e-003	2.7890e-003
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	4.7960e-003	4.7980e-003
tblVehicleEF	LDT2	1.0490e-003	1.0530e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.51	0.53
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.64	1.79
tblVehicleEF	LHD1	3.92	4.10
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.32	1.41
tblVehicleEF	LHD1	1.18	1.20
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05

tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.7800e-004	4.8000e-004
tblVehicleEF	LHD1	2.0810e-003	2.1300e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.6160e-003	1.6220e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.48	0.48
tblVehicleEF	LHD1	0.38	0.40
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.67	1.82

tblVehicleEF	LHD1	3.06	3.21
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.26	1.35
tblVehicleEF	LHD1	1.13	1.15
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.31	0.32
tblVehicleEF	LHD1	8.0870e-003	8.0900e-003
tblVehicleEF	LHD1	4.6300e-004	4.6500e-004
tblVehicleEF	LHD1	3.0420e-003	3.1180e-003
tblVehicleEF	LHD1	0.07	0.08

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.7960e-003	2.8280e-003
tblVehicleEF	LHD1	0.19	0.20
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	1.1760e-003	1.1810e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.17
tblVehicleEF	LHD1	1.62	1.78
tblVehicleEF	LHD1	4.30	4.50
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	750.39	762.67
tblVehicleEF	LHD1	37.32	37.84
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.31	1.41
tblVehicleEF	LHD1	1.21	1.23
tblVehicleEF	LHD1	6.8600e-004	6.9000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.3720e-003	9.3730e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.3800e-004	1.0230e-003
tblVehicleEF	LHD1	6.3100e-004	6.3500e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	8.6700e-004	9.4200e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.16	0.17
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.37	0.40
tblVehicleEF	LHD1	8.0860e-003	8.0890e-003
tblVehicleEF	LHD1	4.8400e-004	4.8700e-004
tblVehicleEF	LHD1	1.9530e-003	2.0110e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.4270e-003	1.4340e-003
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.53	0.53
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.15
tblVehicleEF	LHD2	1.93	2.06
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.92	2.06
tblVehicleEF	LHD2	0.68	0.69

tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.18	0.19
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8300e-004	2.8400e-004
tblVehicleEF	LHD2	9.9500e-004	1.0410e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0600e-004	8.1900e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.23	0.24
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.07	1.16
tblVehicleEF	LHD2	1.52	1.62
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.85	1.98
tblVehicleEF	LHD2	0.65	0.66
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.7500e-004	2.7600e-004

tblVehicleEF	LHD2	1.4540e-003	1.5250e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3970e-003	1.4310e-003
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.22	0.23
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	8.7300e-004	8.7600e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.06	1.14
tblVehicleEF	LHD2	2.12	2.25
tblVehicleEF	LHD2	9.03	9.18
tblVehicleEF	LHD2	637.14	647.50
tblVehicleEF	LHD2	22.71	23.01
tblVehicleEF	LHD2	5.1580e-003	5.1860e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.91	2.06
tblVehicleEF	LHD2	0.69	0.71
tblVehicleEF	LHD2	1.2880e-003	1.2920e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	4.2500e-004	4.7300e-004
tblVehicleEF	LHD2	1.1850e-003	1.1880e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	3.9200e-004	4.3500e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.19	0.20
tblVehicleEF	LHD2	6.7800e-003	6.7810e-003
tblVehicleEF	LHD2	2.8600e-004	2.8700e-004
tblVehicleEF	LHD2	9.1800e-004	9.7100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0900e-004	7.2000e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.25	0.26
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	MCY	28.80	29.57
tblVehicleEF	MCY	10.23	10.18
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.24	1.25
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004

tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	2.97	3.00
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	2.2710e-003	2.2680e-003
tblVehicleEF	MCY	6.6000e-004	6.6500e-004
tblVehicleEF	MCY	0.71	0.71
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	0.53	0.53
tblVehicleEF	MCY	3.24	3.27
tblVehicleEF	MCY	1.30	1.35
tblVehicleEF	MCY	2.28	2.29
tblVehicleEF	MCY	27.18	27.88
tblVehicleEF	MCY	8.78	8.76
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12

tblVehicleEF	MCY	2.88	2.90
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.82	1.83
tblVehicleEF	MCY	2.2430e-003	2.2380e-003
tblVehicleEF	MCY	6.2800e-004	6.3300e-004
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	1.11	1.12
tblVehicleEF	MCY	3.14	3.16
tblVehicleEF	MCY	1.17	1.22
tblVehicleEF	MCY	1.95	1.96
tblVehicleEF	MCY	29.90	30.70
tblVehicleEF	MCY	10.90	10.84
tblVehicleEF	MCY	158.79	159.85
tblVehicleEF	MCY	39.80	40.97
tblVehicleEF	MCY	6.5630e-003	6.5640e-003
tblVehicleEF	MCY	1.26	1.26
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	4.2900e-004	4.7900e-004
tblVehicleEF	MCY	1.0720e-003	1.2070e-003
tblVehicleEF	MCY	3.5700e-004	3.9500e-004
tblVehicleEF	MCY	8.8200e-004	9.8200e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.02	3.05
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.26	2.28

tblVehicleEF	MCY	2.2900e-003	2.2870e-003
tblVehicleEF	MCY	6.7500e-004	6.8000e-004
tblVehicleEF	MCY	0.66	0.66
tblVehicleEF	MCY	0.54	0.55
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	3.29	3.32
tblVehicleEF	MCY	1.61	1.67
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.80	1.94
tblVehicleEF	MDV	4.47	4.76
tblVehicleEF	MDV	507.05	522.26
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.41	0.44
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.37	0.39
tblVehicleEF	MDV	6.1860e-003	6.1840e-003

tblVehicleEF	MDV	1.3510e-003	1.3540e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.61	0.61
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.99	2.13
tblVehicleEF	MDV	3.36	3.58
tblVehicleEF	MDV	534.71	550.71
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.30	0.32
tblVehicleEF	MDV	6.5270e-003	6.5240e-003
tblVehicleEF	MDV	1.3310e-003	1.3340e-003

tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.56	0.56
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.78	1.91
tblVehicleEF	MDV	4.89	5.20
tblVehicleEF	MDV	502.05	517.12
tblVehicleEF	MDV	106.82	109.79
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.25	0.27
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	2.0550e-003	2.0790e-003
tblVehicleEF	MDV	3.3860e-003	3.3210e-003
tblVehicleEF	MDV	1.8980e-003	1.9170e-003
tblVehicleEF	MDV	3.1320e-003	3.0680e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	6.1240e-003	6.1230e-003
tblVehicleEF	MDV	1.3580e-003	1.3620e-003
tblVehicleEF	MDV	0.05	0.05

tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.73	0.73
tblVehicleEF	MDV	0.42	0.45
tblVehicleEF	MH	2.54	3.13
tblVehicleEF	MH	7.17	7.80
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.78	0.82
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.87	0.94
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.40	0.44
tblVehicleEF	MH	7.5230e-003	7.5340e-003
tblVehicleEF	MH	4.4000e-004	4.5300e-004
tblVehicleEF	MH	0.87	0.94

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.46	0.49
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.92	2.04
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	2.60	3.20
tblVehicleEF	MH	5.48	5.94
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.38	1.47
tblVehicleEF	MH	0.74	0.78
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	1.20	1.30
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.12	0.13
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.34	0.37
tblVehicleEF	MH	7.5240e-003	7.5350e-003
tblVehicleEF	MH	4.1200e-004	4.2100e-004
tblVehicleEF	MH	1.20	1.30

tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.81	0.86
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	1.87	1.98
tblVehicleEF	MH	0.36	0.39
tblVehicleEF	MH	2.51	3.10
tblVehicleEF	MH	7.93	8.64
tblVehicleEF	MH	696.20	707.64
tblVehicleEF	MH	29.02	29.65
tblVehicleEF	MH	3.4520e-003	3.4580e-003
tblVehicleEF	MH	1.47	1.56
tblVehicleEF	MH	0.79	0.84
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5470e-003	8.5490e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5800e-004	1.0110e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	7.8100e-004	9.1400e-004
tblVehicleEF	MH	0.92	0.99
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.43	0.47
tblVehicleEF	MH	7.5230e-003	7.5330e-003
tblVehicleEF	MH	4.5300e-004	4.6700e-004
tblVehicleEF	MH	0.92	0.99

tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.43	0.46
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	2.06	2.18
tblVehicleEF	MH	0.46	0.51
tblVehicleEF	MHD	7.5130e-003	7.5000e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.87	1.86
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	18.09	19.57
tblVehicleEF	MHD	582.55	590.85
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.15	5.46
tblVehicleEF	MHD	2.29	2.63
tblVehicleEF	MHD	1.90	2.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.2790e-003	2.4930e-003

tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.16	0.16
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.07	1.18
tblVehicleEF	MHD	6.0410e-003	6.0290e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.7600e-004	9.1300e-004
tblVehicleEF	MHD	2.2790e-003	2.4930e-003
tblVehicleEF	MHD	0.10	0.11
tblVehicleEF	MHD	0.18	0.18
tblVehicleEF	MHD	1.7560e-003	1.8930e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.51	0.54
tblVehicleEF	MHD	1.14	1.27
tblVehicleEF	MHD	7.0810e-003	7.0680e-003
tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	1.36	1.35
tblVehicleEF	MHD	0.90	1.02
tblVehicleEF	MHD	14.01	15.23
tblVehicleEF	MHD	617.16	625.96
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.32	5.63
tblVehicleEF	MHD	2.20	2.52
tblVehicleEF	MHD	1.80	1.92

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.91	1.00
tblVehicleEF	MHD	6.4000e-003	6.3870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.0700e-004	8.4000e-004
tblVehicleEF	MHD	3.4090e-003	3.7390e-003
tblVehicleEF	MHD	0.10	0.12
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	3.2000e-003	3.4820e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.97	1.07
tblVehicleEF	MHD	8.1110e-003	8.0960e-003

tblVehicleEF	MHD	5.9260e-003	6.4210e-003
tblVehicleEF	MHD	2.58	2.56
tblVehicleEF	MHD	0.89	1.01
tblVehicleEF	MHD	19.91	21.51
tblVehicleEF	MHD	534.76	542.38
tblVehicleEF	MHD	1,018.75	1,036.88
tblVehicleEF	MHD	51.47	53.28
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.92	5.21
tblVehicleEF	MHD	2.29	2.62
tblVehicleEF	MHD	1.94	2.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.9960e-003	2.4490e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8430e-003	2.8440e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.7920e-003	2.1580e-003
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.15	0.17
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.14	1.27

tblVehicleEF	MHD	5.5450e-003	5.5340e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.0700e-004	9.4600e-004
tblVehicleEF	MHD	2.1630e-003	2.3790e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.20	0.20
tblVehicleEF	MHD	1.5460e-003	1.6660e-003
tblVehicleEF	MHD	0.18	0.19
tblVehicleEF	MHD	0.56	0.60
tblVehicleEF	MHD	1.22	1.35
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	2.55	2.48
tblVehicleEF	OBUS	1.49	1.65
tblVehicleEF	OBUS	11.39	12.02
tblVehicleEF	OBUS	545.88	554.85
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.14	5.30
tblVehicleEF	OBUS	2.96	3.28
tblVehicleEF	OBUS	1.61	1.69
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	9.3200e-003	9.4330e-003

tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.44	0.42
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.69	0.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.7700e-004
tblVehicleEF	OBUS	7.7600e-004	7.8600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.50	0.48
tblVehicleEF	OBUS	5.2500e-004	5.2200e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	0.74	0.78
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	1.85	1.80
tblVehicleEF	OBUS	1.52	1.68
tblVehicleEF	OBUS	8.89	9.38
tblVehicleEF	OBUS	578.31	587.81
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25

tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	5.30	5.47
tblVehicleEF	OBUS	2.83	3.13
tblVehicleEF	OBUS	1.53	1.61
tblVehicleEF	OBUS	8.5400e-003	8.6440e-003
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	7.8570e-003	7.9520e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.41	0.40
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.60	0.63
tblVehicleEF	OBUS	5.9970e-003	5.9980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.2300e-004	5.3300e-004
tblVehicleEF	OBUS	1.1010e-003	1.1160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.45
tblVehicleEF	OBUS	9.5800e-004	9.5900e-004

tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.64	0.67
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8820e-003	2.8930e-003
tblVehicleEF	OBUS	3.51	3.41
tblVehicleEF	OBUS	1.48	1.64
tblVehicleEF	OBUS	12.52	13.20
tblVehicleEF	OBUS	501.09	509.32
tblVehicleEF	OBUS	1,060.18	1,075.89
tblVehicleEF	OBUS	33.63	34.25
tblVehicleEF	OBUS	1.8660e-003	1.8640e-003
tblVehicleEF	OBUS	4.91	5.06
tblVehicleEF	OBUS	2.95	3.27
tblVehicleEF	OBUS	1.64	1.73
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	7.7700e-004	8.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6010e-003	2.5970e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.1100e-004	7.7500e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.47	0.46

tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.74	0.77
tblVehicleEF	OBUS	5.1960e-003	5.1970e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.8500e-004	5.9700e-004
tblVehicleEF	OBUS	7.5300e-004	7.7000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.54	0.52
tblVehicleEF	OBUS	4.7700e-004	4.7500e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.32	0.32
tblVehicleEF	OBUS	0.79	0.83
tblVehicleEF	SBUS	4.3860e-003	4.3220e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.02	0.99
tblVehicleEF	SBUS	4.62	6.19
tblVehicleEF	SBUS	35.49	38.94
tblVehicleEF	SBUS	556.78	563.29
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.66	7.75
tblVehicleEF	SBUS	7.17	7.37
tblVehicleEF	SBUS	2.64	2.69
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.35	2.80
tblVehicleEF	SBUS	5.7740e-003	5.7480e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9360e-003	2.0510e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.92	1.85
tblVehicleEF	SBUS	2.51	3.00
tblVehicleEF	SBUS	4.1340e-003	4.0730e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	0.74	0.72

tblVehicleEF	SBUS	4.64	6.04
tblVehicleEF	SBUS	29.55	32.78
tblVehicleEF	SBUS	589.86	596.75
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.91	8.00
tblVehicleEF	SBUS	6.88	7.07
tblVehicleEF	SBUS	2.47	2.52
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.41	0.47
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.06	2.43
tblVehicleEF	SBUS	6.1170e-003	6.0890e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	1.8340e-003	1.9430e-003
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	0.24	0.29
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.45	0.52
tblVehicleEF	SBUS	1.73	1.67
tblVehicleEF	SBUS	2.20	2.60
tblVehicleEF	SBUS	4.7350e-003	4.6660e-003
tblVehicleEF	SBUS	5.3160e-003	5.2470e-003
tblVehicleEF	SBUS	1.41	1.37
tblVehicleEF	SBUS	4.62	6.29
tblVehicleEF	SBUS	38.45	42.02
tblVehicleEF	SBUS	511.10	517.07
tblVehicleEF	SBUS	1,049.82	1,069.34
tblVehicleEF	SBUS	120.26	126.56
tblVehicleEF	SBUS	5.9400e-004	6.0100e-004
tblVehicleEF	SBUS	7.32	7.40
tblVehicleEF	SBUS	7.15	7.34
tblVehicleEF	SBUS	2.72	2.77
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.55	0.55
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	5.8490e-003	8.4060e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	2.7250e-003	2.7270e-003

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	5.1940e-003	7.1510e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.40	0.47
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.49	2.99
tblVehicleEF	SBUS	5.3000e-003	5.2760e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9870e-003	2.1050e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.38
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.44	0.52
tblVehicleEF	SBUS	2.33	2.24
tblVehicleEF	SBUS	2.66	3.20
tblVehicleEF	UBUS	3.05	3.27
tblVehicleEF	UBUS	5.69	5.79
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.19	11.63
tblVehicleEF	UBUS	0.89	0.88
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004

tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.52	0.53
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.5800e-004	3.6100e-004
tblVehicleEF	UBUS	1.9340e-003	1.9440e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7940e-003	1.7820e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.31	0.30
tblVehicleEF	UBUS	0.56	0.56
tblVehicleEF	UBUS	3.08	3.29
tblVehicleEF	UBUS	4.68	4.77
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	10.79	11.22
tblVehicleEF	UBUS	0.84	0.84
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003

tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.46	0.47
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.4100e-004	3.4400e-004
tblVehicleEF	UBUS	2.3570e-003	2.3780e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	3.1980e-003	3.2090e-003
tblVehicleEF	UBUS	0.67	0.69
tblVehicleEF	UBUS	0.28	0.27
tblVehicleEF	UBUS	0.50	0.50
tblVehicleEF	UBUS	3.04	3.26
tblVehicleEF	UBUS	6.13	6.23
tblVehicleEF	UBUS	2,029.40	2,074.59
tblVehicleEF	UBUS	23.29	23.77
tblVehicleEF	UBUS	2.0670e-003	2.0720e-003
tblVehicleEF	UBUS	11.14	11.58
tblVehicleEF	UBUS	0.91	0.90
tblVehicleEF	UBUS	0.19	0.20
tblVehicleEF	UBUS	2.0500e-004	2.4800e-004
tblVehicleEF	UBUS	0.18	0.18
tblVehicleEF	UBUS	1.9000e-004	2.2300e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.59	0.61

tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.6600e-004	3.6900e-004
tblVehicleEF	UBUS	1.8600e-003	1.8820e-003
tblVehicleEF	UBUS	0.05	0.06
tblVehicleEF	UBUS	1.6410e-003	1.6370e-003
tblVehicleEF	UBUS	0.66	0.69
tblVehicleEF	UBUS	0.38	0.37
tblVehicleEF	UBUS	0.58	0.59

## 2.0 Emissions Summary

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Offroad	19.0982	191.9810	108.7083	0.3449		7.1552	7.1552		6.5928	6.5928		34,077.46 16	34,077.46 16	10.7431		34,303.06 56
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.46 16</b>	<b>34,077.46 16</b>	<b>10.7431</b>		<b>34,303.06 56</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Offroad	19.0982	191.9810	108.7083	0.3449		7.1552	7.1552		6.5928	6.5928		34,077.46 16	34,077.46 16	10.7431		34,303.06 56
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.46 16</b>	<b>34,077.46 16</b>	<b>10.7431</b>		<b>34,303.06 56</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
<b>Percent Reduction</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>100.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipe Installation	Site Preparation	1/1/2019	1/16/2019	6	14	
2	Worker Trips	Building Construction	1/1/2019	1/16/2019	6	14	
3	Hydrotest	Building Construction	1/1/2019	1/5/2019	6	5	
4	Demobilize 2	Building Construction	1/1/2019	1/16/2019	6	14	
5	Grind and Cap	Paving	1/1/2019	1/5/2019	6	5	

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
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Paving Equipment	4	5.00	130	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Worker Trips	Cranes	0	4.00	226	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Off-Highway Trucks	5	8.00	400	0.38
Pipe Installation	Off-Highway Trucks	5	6.00	400	0.38
Pipe Installation	Air Compressors	28	6.00	78	0.48

Pipe Installation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Pipe Installation	Other General Industrial Equipment	5	6.00	87	0.34
Pipe Installation	Air Compressors	10	6.00	78	0.48
Pipe Installation	Crawler Tractors	3	8.00	208	0.43
Pipe Installation	Excavators	18	7.00	162	0.38
Pipe Installation	Excavators	10	7.00	162	0.38
Pipe Installation	Rough Terrain Forklifts	5	6.00	100	0.40
Pipe Installation	Other Material Handling Equipment	5	6.00	75	0.40
Pipe Installation	Graders	0	8.00	174	0.41
Pipe Installation	Excavators	5	6.00	162	0.38
Pipe Installation	Excavators	10	6.00	162	0.38
Pipe Installation	Generator Sets	10	8.00	84	0.74
Pipe Installation	Cranes	5	7.00	226	0.29
Pipe Installation	Bore/Drill Rigs	5	7.00	205	0.50
Pipe Installation	Rollers	4	6.00	80	0.38
Pipe Installation	Concrete/Industrial Saws	8	5.00	81	0.73
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Sweepers/Scrubbers	4	5.00	64	0.46
Pipe Installation	Welders	40	7.00	46	0.45
Pipe Installation	Rubber Tired Loaders	3	8.00	199	0.36
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Excavators	2	6.00	162	0.38
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Cranes	1	7.00	226	0.29
Hydrotest	Welders	4	7.00	46	0.45

Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Pavers	0	7.00	125	0.42
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Rollers	0	7.00	80	0.38
Grind and Cap	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Cranes	0	4.00	226	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Worker Trips	0	600.00	24.00	0.00	30.00	30.00	30.00	LD_Mix	MHDT	HHDT
Hydrotest	0	2.00	6.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	0	4.00	0.00	49.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT
Pipe Installation	0	68.00	121.00	2,691.00	40.00	40.00	40.00	LD_Mix	MHDT	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Pipe Installation - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3073	0.0000	0.3073	0.0465	0.0000	0.0465			0.0000			0.0000
Off-Road	60.7233	505.0678	455.2021	0.8183		27.2305	27.2305		25.9950	25.9950		78,517.00 46	78,517.00 46	18.9723		78,915.42 35
<b>Total</b>	<b>60.7233</b>	<b>505.0678</b>	<b>455.2021</b>	<b>0.8183</b>	<b>0.3073</b>	<b>27.2305</b>	<b>27.5378</b>	<b>0.0465</b>	<b>25.9950</b>	<b>26.0416</b>		<b>78,517.00 46</b>	<b>78,517.00 46</b>	<b>18.9723</b>		<b>78,915.42 35</b>

### 3.2 Pipe Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.5771	78.0108	56.7733	0.2822	6.6951	1.2522	7.9473	1.8329	1.1520	2.9849		27,148.7876	27,148.7876	0.1870		27,152.7140
Vendor	2.1666	26.2744	15.4922	0.1153	4.5586	0.5926	5.1512	1.3461	0.5452	1.8913		11,054.0353	11,054.0353	0.0656		11,055.4118
Worker	0.3133	0.8120	6.9486	0.0241	2.0671	0.0131	2.0802	0.5481	0.0122	0.5602		1,793.9797	1,793.9797	0.0837		1,795.7373
<b>Total</b>	<b>8.0570</b>	<b>105.0972</b>	<b>79.2141</b>	<b>0.4216</b>	<b>13.3208</b>	<b>1.8580</b>	<b>15.1787</b>	<b>3.7270</b>	<b>1.7094</b>	<b>5.4364</b>		<b>39,996.8025</b>	<b>39,996.8025</b>	<b>0.3362</b>		<b>40,003.8631</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	lb/day										lb/day					
Fugitive Dust					0.1383	0.0000	0.1383	0.0209	0.0000	0.0209			0.0000			0.0000
Off-Road	20.6625	411.0288	525.6439	0.8183		22.9003	22.9003		22.9003	22.9003	0.0000	78,517.0045	78,517.0045	18.9723		78,915.4234
<b>Total</b>	<b>20.6625</b>	<b>411.0288</b>	<b>525.6439</b>	<b>0.8183</b>	<b>0.1383</b>	<b>22.9003</b>	<b>23.0385</b>	<b>0.0209</b>	<b>22.9003</b>	<b>22.9212</b>	<b>0.0000</b>	<b>78,517.0045</b>	<b>78,517.0045</b>	<b>18.9723</b>		<b>78,915.4234</b>

### 3.2 Pipe Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.5771	78.0108	56.7733	0.2822	6.6951	1.2522	7.9473	1.8329	1.1520	2.9849		27,148.7876	27,148.7876	0.1870		27,152.7140
Vendor	2.1666	26.2744	15.4922	0.1153	4.5586	0.5926	5.1512	1.3461	0.5452	1.8913		11,054.0353	11,054.0353	0.0656		11,055.4118
Worker	0.3133	0.8120	6.9486	0.0241	2.0671	0.0131	2.0802	0.5481	0.0122	0.5602		1,793.9797	1,793.9797	0.0837		1,795.7373
<b>Total</b>	<b>8.0570</b>	<b>105.0972</b>	<b>79.2141</b>	<b>0.4216</b>	<b>13.3208</b>	<b>1.8580</b>	<b>15.1787</b>	<b>3.7270</b>	<b>1.7094</b>	<b>5.4364</b>		<b>39,996.8025</b>	<b>39,996.8025</b>	<b>0.3362</b>		<b>40,003.8631</b>

### 3.3 Worker Trips - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
<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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### 3.3 Worker Trips - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3489	4.0024	2.6033	0.0173	0.6783	0.0885	0.7668	0.2003	0.0814	0.2817		1,653.5040	1,653.5040	9.8700e-003			1,653.7112
Worker	2.3993	5.4356	46.9838	0.1597	13.6808	0.0882	13.7689	3.6274	0.0817	3.7091		11,902.8953	11,902.8953	0.5580			11,914.6124
<b>Total</b>	<b>2.7482</b>	<b>9.4379</b>	<b>49.5871</b>	<b>0.1770</b>	<b>14.3591</b>	<b>0.1767</b>	<b>14.5357</b>	<b>3.8277</b>	<b>0.1631</b>	<b>3.9909</b>		<b>13,556.3993</b>	<b>13,556.3993</b>	<b>0.5678</b>			<b>13,568.3236</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	lb/day										lb/day						
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

### 3.3 Worker Trips - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3489	4.0024	2.6033	0.0173	0.6783	0.0885	0.7668	0.2003	0.0814	0.2817		1,653.5040	1,653.5040	9.8700e-003			1,653.7112
Worker	2.3993	5.4356	46.9838	0.1597	13.6808	0.0882	13.7689	3.6274	0.0817	3.7091		11,902.8953	11,902.8953	0.5580			11,914.6124
<b>Total</b>	<b>2.7482</b>	<b>9.4379</b>	<b>49.5871</b>	<b>0.1770</b>	<b>14.3591</b>	<b>0.1767</b>	<b>14.5357</b>	<b>3.8277</b>	<b>0.1631</b>	<b>3.9909</b>		<b>13,556.3993</b>	<b>13,556.3993</b>	<b>0.5678</b>			<b>13,568.3236</b>

### 3.4 Hydrotest - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.0832	31.1718	26.3238	0.0454		1.7118	1.7118		1.6612	1.6612		4,250.7343	4,250.7343	0.8098			4,267.7408
<b>Total</b>	<b>4.0832</b>	<b>31.1718</b>	<b>26.3238</b>	<b>0.0454</b>		<b>1.7118</b>	<b>1.7118</b>		<b>1.6612</b>	<b>1.6612</b>		<b>4,250.7343</b>	<b>4,250.7343</b>	<b>0.8098</b>			<b>4,267.7408</b>

### 3.4 Hydrotect - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1074	1.3029	0.7682	5.7200e-003	0.2261	0.0294	0.2554	0.0668	0.0270	0.0938		548.1340	548.1340	3.2500e-003			548.2022
Worker	9.2100e-003	0.0239	0.2044	7.1000e-004	0.0608	3.9000e-004	0.0612	0.0161	3.6000e-004	0.0165		52.7641	52.7641	2.4600e-003			52.8158
<b>Total</b>	<b>0.1166</b>	<b>1.3268</b>	<b>0.9726</b>	<b>6.4300e-003</b>	<b>0.2869</b>	<b>0.0298</b>	<b>0.3166</b>	<b>0.0829</b>	<b>0.0274</b>	<b>0.1103</b>		<b>600.8981</b>	<b>600.8981</b>	<b>5.7100e-003</b>			<b>601.0180</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	lb/day										lb/day						
Off-Road	1.1804	22.8757	27.9980	0.0454		1.3136	1.3136		1.3136	1.3136	0.0000	4,250.7343	4,250.7343	0.8098			4,267.7408
<b>Total</b>	<b>1.1804</b>	<b>22.8757</b>	<b>27.9980</b>	<b>0.0454</b>		<b>1.3136</b>	<b>1.3136</b>		<b>1.3136</b>	<b>1.3136</b>	<b>0.0000</b>	<b>4,250.7343</b>	<b>4,250.7343</b>	<b>0.8098</b>			<b>4,267.7408</b>

### 3.4 Hydrotest - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1074	1.3029	0.7682	5.7200e-003	0.2261	0.0294	0.2554	0.0668	0.0270	0.0938		548.1340	548.1340	3.2500e-003			548.2022
Worker	9.2100e-003	0.0239	0.2044	7.1000e-004	0.0608	3.9000e-004	0.0612	0.0161	3.6000e-004	0.0165		52.7641	52.7641	2.4600e-003			52.8158
<b>Total</b>	<b>0.1166</b>	<b>1.3268</b>	<b>0.9726</b>	<b>6.4300e-003</b>	<b>0.2869</b>	<b>0.0298</b>	<b>0.3166</b>	<b>0.0829</b>	<b>0.0274</b>	<b>0.1103</b>		<b>600.8981</b>	<b>600.8981</b>	<b>5.7100e-003</b>			<b>601.0180</b>

### 3.5 Demobilize 2 - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
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
<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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

### 3.5 Demobilize 2 - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2149	2.6057	1.5364	0.0114	0.4521	0.0588	0.5109	0.1335	0.0541	0.1876		1,096.2680	1,096.2680	6.5000e-003			1,096.4045
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.2149</b>	<b>2.6057</b>	<b>1.5364</b>	<b>0.0114</b>	<b>0.4521</b>	<b>0.0588</b>	<b>0.5109</b>	<b>0.1335</b>	<b>0.0541</b>	<b>0.1876</b>		<b>1,096.2680</b>	<b>1,096.2680</b>	<b>6.5000e-003</b>			<b>1,096.4045</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	lb/day										lb/day						
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

### 3.5 Demobilize 2 - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2149	2.6057	1.5364	0.0114	0.4521	0.0588	0.5109	0.1335	0.0541	0.1876		1,096.2680	1,096.2680	6.5000e-003			1,096.4045
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.2149</b>	<b>2.6057</b>	<b>1.5364</b>	<b>0.0114</b>	<b>0.4521</b>	<b>0.0588</b>	<b>0.5109</b>	<b>0.1335</b>	<b>0.0541</b>	<b>0.1876</b>		<b>1,096.2680</b>	<b>1,096.2680</b>	<b>6.5000e-003</b>			<b>1,096.4045</b>

### 3.6 Grind and Cap - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.4345	28.8340	27.8577	0.0418		1.9248	1.9248		1.8272	1.8272		4,062.5150	4,062.5150	0.8942			4,081.2929
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>3.4345</b>	<b>28.8340</b>	<b>27.8577</b>	<b>0.0418</b>		<b>1.9248</b>	<b>1.9248</b>		<b>1.8272</b>	<b>1.8272</b>		<b>4,062.5150</b>	<b>4,062.5150</b>	<b>0.8942</b>			<b>4,081.2929</b>

### 3.6 Grind and Cap - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2844	3.9774	2.8946	0.0144	0.3414	0.0638	0.4052	0.0935	0.0587	0.1522		1,384.1745	1,384.1745	9.5300e-003		1,384.3747
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0184	0.0478	0.4087	1.4200e-003	0.1216	7.7000e-004	0.1224	0.0322	7.2000e-004	0.0330		105.5282	105.5282	4.9200e-003		105.6316
<b>Total</b>	<b>0.3028</b>	<b>4.0251</b>	<b>3.3033</b>	<b>0.0158</b>	<b>0.4629</b>	<b>0.0646</b>	<b>0.5276</b>	<b>0.1257</b>	<b>0.0595</b>	<b>0.1851</b>		<b>1,489.7028</b>	<b>1,489.7028</b>	<b>0.0145</b>		<b>1,490.0063</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	lb/day										lb/day					
Off-Road	0.9472	20.7613	29.2057	0.0418		1.3505	1.3505		1.3505	1.3505	0.0000	4,062.5150	4,062.5150	0.8942		4,081.2929
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9472</b>	<b>20.7613</b>	<b>29.2057</b>	<b>0.0418</b>		<b>1.3505</b>	<b>1.3505</b>		<b>1.3505</b>	<b>1.3505</b>	<b>0.0000</b>	<b>4,062.5150</b>	<b>4,062.5150</b>	<b>0.8942</b>		<b>4,081.2929</b>



LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

**5.0 Energy Detail**

**5.1 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	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

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	62	0.31	Diesel
Cranes	1	10.00	1	226	0.29	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	6	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	4	10.00	4	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	1	10.00	1	400	0.38	Diesel
Off-Highway Trucks	2	10.00	2	400	0.38	Diesel
Off-Highway Trucks	1	10.00	240	400	0.38	Diesel
Off-Highway Trucks	1	10.00	12	400	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

**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	lb/day										lb/day					
Aerial Lifts	0.0501	0.8375	1.3443	2.0700e-003		0.0206	0.0206		0.0189	0.0189		204.4937	204.4937	0.0647		205.8524
Cranes	0.6164	7.3462	2.8043	7.0500e-003		0.3114	0.3114		0.2865	0.2865		698.5584	698.5584	0.2210		703.1997
Off-Highway Trucks	17.6593	178.8452	99.4225	0.3287		6.5036	6.5036		5.9834	5.9834		32,530.6350	32,530.6350	10.2924		32,746.7743
Tractors/Loaders/Backhoes	0.2910	2.9217	2.8784	3.8800e-003		0.1951	0.1951		0.1795	0.1795		384.4273	384.4273	0.1216		386.9815
Welders	0.4815	2.0303	2.2590	3.1900e-003		0.1246	0.1246		0.1246	0.1246		259.3472	259.3472	0.0434		260.2576
<b>Total</b>	<b>19.0982</b>	<b>191.9810</b>	<b>108.7083</b>	<b>0.3449</b>		<b>7.1552</b>	<b>7.1552</b>		<b>6.5928</b>	<b>6.5928</b>		<b>34,077.4616</b>	<b>34,077.4616</b>	<b>10.7431</b>		<b>34,303.0656</b>

**10.0 Vegetation**

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## Pipeline Safety & Reliability Project San Diego County, Mitigation Report

### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Augur Bore 1	0.67	0.34	-0.30	0.00	0.35	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Augur Bore 2	0.67	0.34	-0.31	0.00	0.35	0.31	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 1	0.73	0.28	0.01	0.00	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 2	0.74	0.29	0.01	0.00	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	0.70	0.31	-0.04	0.00	0.38	0.35	0.00	0.00	0.00	0.00	0.00	0.00
HDD	0.68	0.32	-0.21	0.00	0.28	0.25	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	0.73	0.32	-0.04	0.00	0.33	0.31	0.00	0.00	0.00	0.00	0.00	0.00
Mobilize	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe Installation	0.62	0.23	-0.12	0.00	0.26	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	49	49	No Change	0.00
Bore/Drill Rigs	Diesel	Tier 3	12	12	No Change	0.00

Cement and Mortar Mixers	Diesel	Tier 3	0	0	No Change	0.00
Concrete/Industrial Saws	Diesel	Tier 3	8	8	No Change	0.00
Cranes	Diesel	Tier 3	18	18	No Change	0.00
Crawler Tractors	Diesel	Tier 3	3	3	No Change	0.00
Crushing/Proc. Equipment	Diesel	Tier 3	4	4	No Change	0.00
Excavators	Diesel	Tier 3	45	45	No Change	0.00
Forklifts	Diesel	Tier 3	0	0	No Change	0.00
Generator Sets	Diesel	Tier 3	13	13	No Change	0.00
Graders	Diesel	Tier 3	1	1	No Change	0.00
Off-Highway Trucks	Diesel	Tier 3	14	14	No Change	0.00
Other Construction Equipment	Diesel	Tier 3	3	3	No Change	0.00
Other General Industrial Equipment	Diesel	Tier 3	5	5	No Change	0.00
Pavers	Diesel	Tier 3	0	0	No Change	0.00
Paving Equipment	Diesel	Tier 3	4	4	No Change	0.00
Pumps	Diesel	Tier 3	11	11	No Change	0.00
Rollers	Diesel	Tier 3	8	8	No Change	0.00
Rough Terrain Forklifts	Diesel	Tier 3	8	8	No Change	0.00
Rubber Tired Loaders	Diesel	Tier 3	3	3	No Change	0.00
Sweepers/Scrubbers	Diesel	Tier 3	8	8	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 3	27	27	No Change	0.00
Welders	Diesel	Tier 3	52	52	No Change	0.00
Other Material Handling Equipment	Diesel	Tier 3	1	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	1.83242E+000	1.23073E+001	1.13774E+001	1.82300E-002	9.23800E-001	9.23800E-001	0.00000E+000	1.56668E+003	1.56668E+003	1.48870E-001	0.00000E+000	1.56981E+003
Bore/Drill Rigs	2.59780E-001	3.61902E+000	1.80403E+000	8.10000E-003	1.02270E-001	9.40800E-002	0.00000E+000	7.38880E+002	7.38880E+002	2.30020E-001	0.00000E+000	7.43711E+002
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	3.97300E-001	2.99494E+000	2.84894E+000	4.79000E-003	2.04240E-001	2.04240E-001	0.00000E+000	4.11307E+002	4.11307E+002	3.18500E-002	0.00000E+000	4.11976E+002
Cranes	6.03960E-001	7.21784E+000	2.66866E+000	6.10000E-003	3.12400E-001	2.87410E-001	0.00000E+000	5.57371E+002	5.57371E+002	1.73520E-001	0.00000E+000	5.61015E+002
Crawler Tractors	2.88380E-001	3.82993E+000	1.19724E+000	3.54000E-003	1.44900E-001	1.33300E-001	0.00000E+000	3.22910E+002	3.22910E+002	1.00530E-001	0.00000E+000	3.25021E+002
Crushing/Processing Equipment	2.24660E-001	1.50327E+000	1.45756E+000	2.32000E-003	1.10000E-001	1.10000E-001	0.00000E+000	1.99695E+002	1.99695E+002	1.82700E-002	0.00000E+000	2.00078E+002
Excavators	1.64001E+000	1.75596E+001	1.85793E+001	2.93000E-002	8.51620E-001	7.83490E-001	0.00000E+000	2.67351E+003	2.67351E+003	8.32300E-001	0.00000E+000	2.69099E+003
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	8.60160E-001	7.00070E+000	6.37751E+000	1.12000E-002	4.45940E-001	4.45940E-001	0.00000E+000	9.61948E+002	9.61948E+002	6.94000E-002	0.00000E+000	9.63405E+002
Graders	1.27320E-001	1.27145E+000	7.14120E-001	9.50000E-004	7.14800E-002	6.57600E-002	0.00000E+000	8.68620E+001	8.68620E+001	2.70400E-002	0.00000E+000	8.74299E+001
Off-Highway Trucks	1.09563E+000	1.17948E+001	5.95286E+000	1.87300E-002	4.30510E-001	3.96060E-001	0.00000E+000	1.70894E+003	1.70894E+003	5.32020E-001	0.00000E+000	1.72012E+003
Other Construction Equipment	9.50500E-002	1.03559E+000	7.10750E-001	1.06000E-003	5.44900E-002	5.01300E-002	0.00000E+000	9.64147E+001	9.64147E+001	3.00200E-002	0.00000E+000	9.70450E+001
Other General Industrial Equipment	1.66820E-001	1.48303E+000	1.16029E+000	1.45000E-003	1.17240E-001	1.07860E-001	0.00000E+000	1.32589E+002	1.32589E+002	4.12800E-002	0.00000E+000	1.33456E+002
Other Material Handling Equipment	4.07000E-003	3.94400E-002	3.67500E-002	5.00000E-005	2.71000E-003	2.49000E-003	0.00000E+000	4.46354E+000	4.46354E+000	1.39000E-003	0.00000E+000	4.49272E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	7.75700E-002	8.67300E-001	8.27370E-001	1.33000E-003	4.24600E-002	3.90700E-002	0.00000E+000	1.21342E+002	1.21342E+002	3.77800E-002	0.00000E+000	1.22135E+002
Pumps	2.52700E-001	1.98406E+000	1.80847E+000	3.13000E-003	1.31300E-001	1.31300E-001	0.00000E+000	2.68615E+002	2.68615E+002	2.03200E-002	0.00000E+000	2.69042E+002
Rollers	2.19410E-001	2.12116E+000	1.64649E+000	2.23000E-003	1.45970E-001	1.34290E-001	0.00000E+000	2.03668E+002	2.03668E+002	6.34000E-002	0.00000E+000	2.05000E+002
Rough Terrain Forklifts	1.09180E-001	1.39804E+000	1.60680E+000	2.40000E-003	6.68300E-002	6.14800E-002	0.00000E+000	2.18982E+002	2.18982E+002	6.81700E-002	0.00000E+000	2.20413E+002



Paving Equipment	3.28100E-002	6.34330E-001	1.01164E+000	1.33000E-003	3.06200E-002	3.06200E-002	0.00000E+000	1.21342E+002	1.21342E+002	3.77800E-002	0.00000E+000	1.22135E+002
Pumps	6.25200E-002	1.42760E+000	1.92778E+000	3.13000E-003	1.00040E-001	1.00040E-001	0.00000E+000	2.68615E+002	2.68615E+002	2.03200E-002	0.00000E+000	2.69041E+002
Rollers	5.47300E-002	1.24976E+000	1.68763E+000	2.23000E-003	8.75700E-002	8.75700E-002	0.00000E+000	2.03668E+002	2.03668E+002	6.34000E-002	0.00000E+000	2.04999E+002
Rough Terrain Forklifts	5.89700E-002	1.34646E+000	1.81822E+000	2.40000E-003	9.43500E-002	9.43500E-002	0.00000E+000	2.18981E+002	2.18981E+002	6.81700E-002	0.00000E+000	2.20413E+002
Rubber Tired Loaders	6.95900E-002	1.34549E+000	1.50787E+000	2.81000E-003	5.10400E-002	5.10400E-002	0.00000E+000	2.56697E+002	2.56697E+002	7.99100E-002	0.00000E+000	2.58375E+002
Sweepers/Scrubbers	4.44700E-002	1.01545E+000	1.37123E+000	1.81000E-003	7.11600E-002	7.11600E-002	0.00000E+000	1.65599E+002	1.65599E+002	5.15500E-002	0.00000E+000	1.66681E+002
Tractors/Loaders/Balkhoes	2.35340E-001	5.37359E+000	7.25630E+000	9.63000E-003	3.76540E-001	3.76540E-001	0.00000E+000	8.79114E+002	8.79114E+002	2.73680E-001	0.00000E+000	8.84861E+002
Welders	6.01580E-001	9.60453E+000	8.50509E+000	1.45200E-002	5.80840E-001	5.80840E-001	0.00000E+000	1.06947E+003	1.06947E+003	2.05120E-001	0.00000E+000	1.07378E+003

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	8.00995E-001	3.23458E-001	1.17531E-002	0.00000E+000	3.68413E-001	3.68413E-001	0.00000E+000	1.19361E-006	1.19361E-006	0.00000E+000	0.00000E+000	1.19123E-006
Bore/Drill Rigs	2.23574E-001	-7.75237E-002	-1.42248E+000	0.00000E+000	-4.46367E-001	-5.72279E-001	0.00000E+000	1.19099E-006	1.19099E-006	0.00000E+000	0.00000E+000	1.18326E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	7.59023E-001	2.70112E-001	-3.61222E-002	0.00000E+000	2.50000E-001	2.50000E-001	0.00000E+000	1.19132E-006	1.19132E-006	0.00000E+000	0.00000E+000	1.18939E-006
Cranes	7.51590E-001	5.98128E-001	-2.18113E-001	0.00000E+000	6.47823E-001	6.17202E-001	0.00000E+000	1.20207E-006	1.20207E-006	0.00000E+000	0.00000E+000	1.19426E-006
Crawler Tractors	6.98696E-001	5.61405E-001	-5.72392E-001	0.00000E+000	5.60248E-001	5.21980E-001	0.00000E+000	1.20777E-006	1.20777E-006	0.00000E+000	0.00000E+000	1.19992E-006
Crushing/Proc. Equipment	7.93110E-001	2.93999E-001	1.67403E-002	0.00000E+000	3.23909E-001	3.23909E-001	0.00000E+000	1.20184E-006	1.20184E-006	0.00000E+000	0.00000E+000	1.14955E-006
Excavators	5.60527E-001	2.06462E-001	-1.96101E-001	0.00000E+000	2.10105E-001	1.41419E-001	0.00000E+000	1.18945E-006	1.18945E-006	0.00000E+000	0.00000E+000	1.18915E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	7.39700E-001	2.69723E-001	-8.25024E-002	0.00000E+000	1.96663E-001	1.96663E-001	0.00000E+000	1.18510E-006	1.18510E-006	0.00000E+000	0.00000E+000	1.19368E-006
Graders	8.18567E-001	6.48732E-001	2.57660E-003	0.00000E+000	6.98377E-001	6.72141E-001	0.00000E+000	1.15125E-006	1.15125E-006	0.00000E+000	0.00000E+000	1.14377E-006
Off-Highway Trucks	5.81921E-001	2.49178E-001	-6.67197E-001	0.00000E+000	2.19739E-001	1.51871E-001	0.00000E+000	1.19372E-006	1.19372E-006	0.00000E+000	0.00000E+000	1.18597E-006

Other Construction Equipment	7.25092E-001	5.12095E-001	-1.33774E-001	0.00000E+000	5.52395E-001	5.13465E-001	0.00000E+000	1.14090E-006	1.14090E-006	0.00000E+000	0.00000E+000	1.13349E-006
Other General Industrial Equipment	7.84678E-001	4.46977E-001	4.54886E-002	0.00000E+000	5.09809E-001	4.67180E-001	0.00000E+000	1.13132E-006	1.13132E-006	0.00000E+000	0.00000E+000	1.12397E-006
Other Material Handling Equipment	7.05160E-001	3.05274E-001	-6.80272E-003	0.00000E+000	2.91513E-001	2.28916E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	5.77027E-001	2.68615E-001	-2.22718E-001	0.00000E+000	2.78851E-001	2.16278E-001	0.00000E+000	1.15377E-006	1.15377E-006	0.00000E+000	0.00000E+000	1.14627E-006
Pumps	7.52592E-001	2.80465E-001	-6.59729E-002	0.00000E+000	2.38081E-001	2.38081E-001	0.00000E+000	1.19130E-006	1.19130E-006	0.00000E+000	0.00000E+000	1.18941E-006
Rollers	7.50558E-001	4.10813E-001	-2.49865E-002	0.00000E+000	4.00082E-001	3.47904E-001	0.00000E+000	1.17839E-006	1.17839E-006	0.00000E+000	0.00000E+000	1.17073E-006
Rough Terrain Forklifts	4.59883E-001	3.68945E-002	-1.31578E-001	0.00000E+000	-4.11791E-001	-5.34645E-001	0.00000E+000	1.18731E-006	1.18731E-006	0.00000E+000	0.00000E+000	1.17960E-006
Rubber Tired Loaders	6.40176E-001	4.38439E-001	-9.31013E-001	0.00000E+000	3.71893E-001	3.17282E-001	0.00000E+000	1.16869E-006	1.16869E-006	0.00000E+000	0.00000E+000	1.16110E-006
Sweepers/Scrubbers	7.99829E-001	4.66507E-001	4.68170E-002	0.00000E+000	5.51720E-001	5.12736E-001	0.00000E+000	1.20774E-006	1.20774E-006	0.00000E+000	0.00000E+000	1.19989E-006
Tractors/Loaders/Backhoes	7.14553E-001	3.40466E-001	-2.28737E-003	0.00000E+000	3.47655E-001	2.90925E-001	0.00000E+000	1.19438E-006	1.19438E-006	0.00000E+000	0.00000E+000	1.19793E-006
Welders	7.60331E-001	-4.99119E-003	1.94817E-001	0.00000E+000	9.96683E-002	9.96683E-002	0.00000E+000	1.18750E-006	1.18750E-006	0.00000E+000	0.00000E+000	1.18274E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	55.00	PM2.5 Reduction	55.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Augur Bore 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Augur Bore 1	Roads	0.17	0.02	0.06	0.01	0.67	0.58
Augur Bore 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Augur Bore 2	Roads	0.05	0.01	0.02	0.00	0.67	0.58
Civil Work 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 1	Roads	0.07	0.01	0.02	0.00	0.64	0.53
Civil Work 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 2	Roads	0.01	0.00	0.00	0.00	0.64	0.54
Demobilize 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 1	Roads	0.03	0.00	0.01	0.00	0.68	0.60
Demobilize 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 2	Roads	0.10	0.01	0.03	0.00	0.68	0.60
Grind and Cap	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	Roads	0.74	0.08	0.25	0.04	0.67	0.58
HDD	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
HDD	Roads	0.12	0.01	0.04	0.01	0.64	0.53
Hydrotest	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	Roads	0.12	0.01	0.04	0.01	0.67	0.58
Mobilize	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Mobilize	Roads	0.32	0.04	0.10	0.01	0.68	0.60
Pipe Installation	Fugitive Dust	0.06	0.01	0.03	0.00	0.55	0.55
Pipe Installation	Roads	27.16	3.07	8.92	1.25	0.67	0.59

Worker Trips	Fugitive Dust	0.00	0.00	0.00	0.00	0.00
Worker Trips	Roads	3.63	0.73	2.58	0.62	0.29

### Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.00	0.15		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			

No	Land Use	Increase Transit Accessibility	0.25		
No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		

No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

### Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

### Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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**Pipeline Safety & Reliability Project  
San Diego County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Demobilize 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	0.67	0.25	-0.04	0.00	0.29	0.25	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	0.69	0.26	-0.06	0.00	0.23	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Pipe Installation	0.58	0.15	-0.13	0.00	0.15	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	40	40	No Change	0.00
Bore/Drill Rigs	Diesel	Tier 3	5	5	No Change	0.00
Cement and Mortar Mixers	Diesel	Tier 3	0	0	No Change	0.00
Concrete/Industrial Saws	Diesel	Tier 3	8	8	No Change	0.00
Cranes	Diesel	Tier 3	7	7	No Change	0.00
Crawler Tractors	Diesel	Tier 3	3	3	No Change	0.00
Crushing/Proc. Equipment	Diesel	Tier 3	4	4	No Change	0.00
Excavators	Diesel	Tier 3	45	45	No Change	0.00
Forklifts	Diesel	Tier 3	0	0	No Change	0.00
Generator Sets	Diesel	Tier 3	10	10	No Change	0.00
Graders	Diesel	Tier 3	0	0	No Change	0.00
Off-Highway Trucks	Diesel	Tier 3	10	10	No Change	0.00
Other General Industrial Equipment	Diesel	Tier 3	5	5	No Change	0.00
Other Material Handling Equipment	Diesel	Tier 3	5	5	No Change	0.00
Pavers	Diesel	Tier 3	0	0	No Change	0.00
Paving Equipment	Diesel	Tier 3	4	4	No Change	0.00
Pumps	Diesel	Tier 3	2	2	No Change	0.00
Rollers	Diesel	Tier 3	8	8	No Change	0.00
Rough Terrain Forklifts	Diesel	Tier 3	5	5	No Change	0.00
Rubber Tired Loaders	Diesel	Tier 3	3	3	No Change	0.00
Sweepers/Scrubbers	Diesel	Tier 3	8	8	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 3	27	27	No Change	0.00
Welders	Diesel	Tier 3	44	44	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	7.26500E-002	5.00450E-001	5.02070E-001	8.10000E-004	3.51100E-002	3.51100E-002	0.00000E+000	6.96187E+001	6.96187E+001	5.88000E-003	0.00000E+000	6.97422E+001
Bore/Drill Rigs	7.98000E-003	1.05400E-001	5.90100E-002	2.70000E-004	2.99000E-003	2.75000E-003	0.00000E+000	2.40160E+001	2.40160E+001	7.60000E-003	0.00000E+000	2.41756E+001
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	1.61700E-002	1.25600E-001	1.29580E-001	2.20000E-004	8.03000E-003	8.03000E-003	0.00000E+000	1.88180E+001	1.88180E+001	1.32000E-003	0.00000E+000	1.88458E+001
Cranes	1.71500E-002	2.04350E-001	7.80000E-002	2.00000E-004	8.66000E-003	7.97000E-003	0.00000E+000	1.76280E+001	1.76280E+001	5.58000E-003	0.00000E+000	1.77451E+001
Crawler Tractors	1.25400E-002	1.64250E-001	5.30000E-002	1.60000E-004	6.19000E-003	5.70000E-003	0.00000E+000	1.44880E+001	1.44880E+001	4.58000E-003	0.00000E+000	1.45843E+001
Crushing/Proc. Equipment	3.79000E-003	2.59000E-002	2.73300E-002	4.00000E-005	1.76000E-003	1.76000E-003	0.00000E+000	3.76782E+000	3.76782E+000	3.00000E-004	0.00000E+000	3.77423E+000
Excavators	6.82400E-002	7.01930E-001	8.54090E-001	1.35000E-003	3.38500E-002	3.11400E-002	0.00000E+000	1.21362E+002	1.21362E+002	3.84000E-002	0.00000E+000	1.22168E+002
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	3.10800E-002	2.64450E-001	2.60620E-001	4.60000E-004	1.58100E-002	1.58100E-002	0.00000E+000	3.95645E+001	3.95645E+001	2.51000E-003	0.00000E+000	3.96172E+001
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Off-Highway Trucks	4.34800E-002	4.40360E-001	2.44800E-001	8.10000E-004	1.60100E-002	1.47300E-002	0.00000E+000	7.26642E+001	7.26642E+001	2.29900E-002	0.00000E+000	7.31470E+001
Other General Industrial Equipment	6.88000E-003	6.18900E-002	5.25900E-002	7.00000E-005	4.72000E-003	4.34000E-003	0.00000E+000	5.99869E+000	5.99869E+000	1.90000E-003	0.00000E+000	6.03855E+000
Other Material Handling Equipment	4.94000E-003	4.89400E-002	4.99100E-002	7.00000E-005	3.17000E-003	2.91000E-003	0.00000E+000	6.02815E+000	6.02815E+000	1.91000E-003	0.00000E+000	6.06820E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	1.31000E-003	1.38900E-002	1.55300E-002	3.00000E-005	6.90000E-004	6.30000E-004	0.00000E+000	2.25213E+000	2.25213E+000	7.10000E-004	0.00000E+000	2.26710E+000
Pumps	1.91000E-003	1.55700E-002	1.53600E-002	3.00000E-005	9.70000E-004	9.70000E-004	0.00000E+000	2.29616E+000	2.29616E+000	1.50000E-004	0.00000E+000	2.29938E+000
Rollers	6.40000E-003	6.32700E-002	5.38500E-002	7.00000E-005	4.16000E-003	3.83000E-003	0.00000E+000	6.65157E+000	6.65157E+000	2.10000E-003	0.00000E+000	6.69577E+000
Rough Terrain Forklifts	3.76000E-003	4.88000E-002	6.06400E-002	9.00000E-005	2.17000E-003	2.00000E-003	0.00000E+000	8.16021E+000	8.16021E+000	2.58000E-003	0.00000E+000	8.21443E+000
Rubber Tired Loaders	8.25000E-003	9.98500E-002	3.47300E-002	1.30000E-004	3.35000E-003	3.08000E-003	0.00000E+000	1.16143E+001	1.16143E+001	3.67000E-003	0.00000E+000	1.16915E+001

Sweepers/Scrubbers	6.73000E-003	5.84400E-002	4.70900E-002	6.00000E-005	4.74000E-003	4.36000E-003	0.00000E+000	5.38368E+000	5.38368E+000	1.70000E-003	0.00000E+000	5.41945E+000
Tractors/Loaders/Backhoes	3.28700E-002	3.29980E-001	3.25080E-001	4.40000E-004	2.20300E-002	2.02700E-002	0.00000E+000	3.93875E+001	3.93875E+001	1.24600E-002	0.00000E+000	3.96492E+001
Welders	9.77400E-002	4.12160E-001	4.58570E-001	6.50000E-004	2.52900E-002	2.52900E-002	0.00000E+000	4.77610E+001	4.77610E+001	7.98000E-003	0.00000E+000	4.79287E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.62000E-002	3.70000E-001	4.99640E-001	8.10000E-004	2.59300E-002	2.59300E-002	0.00000E+000	6.96186E+001	6.96186E+001	5.88000E-003	0.00000E+000	6.97421E+001
Bore/Drill Rigs	6.68000E-003	1.29090E-001	1.44660E-001	2.70000E-004	4.90000E-003	4.90000E-003	0.00000E+000	2.40160E+001	2.40160E+001	7.60000E-003	0.00000E+000	2.41756E+001
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	4.38000E-003	1.00010E-001	1.35050E-001	2.20000E-004	7.01000E-003	7.01000E-003	0.00000E+000	1.88180E+001	1.88180E+001	1.32000E-003	0.00000E+000	1.88458E+001
Cranes	4.82000E-003	9.32500E-002	1.04500E-001	2.00000E-004	3.54000E-003	3.54000E-003	0.00000E+000	1.76279E+001	1.76279E+001	5.58000E-003	0.00000E+000	1.77451E+001
Crawler Tractors	3.96000E-003	7.66400E-002	8.58900E-002	1.60000E-004	2.91000E-003	2.91000E-003	0.00000E+000	1.44880E+001	1.44880E+001	4.58000E-003	0.00000E+000	1.45842E+001
Crushing/Proc. Equipment	8.80000E-004	2.00200E-002	2.70400E-002	4.00000E-005	1.40000E-003	1.40000E-003	0.00000E+000	3.76782E+000	3.76782E+000	3.00000E-004	0.00000E+000	3.77422E+000
Excavators	3.32600E-002	6.43000E-001	1.02547E+000	1.35000E-003	3.10400E-002	3.10400E-002	0.00000E+000	1.21361E+002	1.21361E+002	3.84000E-002	0.00000E+000	1.22168E+002
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	9.21000E-003	2.10270E-001	2.83950E-001	4.60000E-004	1.47300E-002	1.47300E-002	0.00000E+000	3.95645E+001	3.95645E+001	2.51000E-003	0.00000E+000	3.96171E+001
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Off-Highway Trucks	1.98000E-002	3.82850E-001	4.29050E-001	8.10000E-004	1.45200E-002	1.45200E-002	0.00000E+000	7.26641E+001	7.26641E+001	2.29900E-002	0.00000E+000	7.31469E+001
Other General Industrial Equipment	1.65000E-003	3.77100E-002	5.09200E-002	7.00000E-005	2.64000E-003	2.64000E-003	0.00000E+000	5.99868E+000	5.99868E+000	1.90000E-003	0.00000E+000	6.03854E+000
Other Material Handling Equipment	1.65000E-003	3.76100E-002	5.07900E-002	7.00000E-005	2.64000E-003	2.64000E-003	0.00000E+000	6.02814E+000	6.02814E+000	1.91000E-003	0.00000E+000	6.06819E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	6.20000E-004	1.19700E-002	1.90900E-002	3.00000E-005	5.80000E-004	5.80000E-004	0.00000E+000	2.25213E+000	2.25213E+000	7.10000E-004	0.00000E+000	2.26709E+000
Pumps	5.30000E-004	1.22000E-002	1.64800E-002	3.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.29615E+000	2.29615E+000	1.50000E-004	0.00000E+000	2.29938E+000
Rollers	1.82000E-003	4.14800E-002	5.60100E-002	7.00000E-005	2.91000E-003	2.91000E-003	0.00000E+000	6.65156E+000	6.65156E+000	2.10000E-003	0.00000E+000	6.69576E+000



Paving Equipment	5.26718E-001	1.38229E-001	-2.29234E-001	0.00000E+000	1.59420E-001	7.93651E-002	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.41092E-006
Pumps	7.22513E-001	2.16442E-001	-7.29167E-002	0.00000E+000	1.13402E-001	1.13402E-001	0.00000E+000	4.35510E-006	4.35510E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	7.15625E-001	3.44397E-001	-4.01114E-002	0.00000E+000	3.00481E-001	2.40209E-001	0.00000E+000	1.50340E-006	1.50340E-006	0.00000E+000	0.00000E+000	0.00000E+000	1.49348E-006
Rough Terrain Forklifts	4.06915E-001	-4.50820E-002	-1.35554E-001	0.00000E+000	-6.45161E-001	-7.85000E-001	0.00000E+000	1.22546E-006	1.22546E-006	0.00000E+000	0.00000E+000	0.00000E+000	1.21737E-006
Rubber Tired Loaders	6.12121E-001	3.80371E-001	-9.96257E-001	0.00000E+000	2.98507E-001	2.37013E-001	0.00000E+000	8.61009E-007	8.61009E-007	0.00000E+000	0.00000E+000	0.00000E+000	1.71065E-006
Sweepers/Scrubbers	7.81575E-001	4.25907E-001	3.78000E-002	0.00000E+000	5.04219E-001	4.61009E-001	0.00000E+000	1.85747E-006	1.85747E-006	0.00000E+000	0.00000E+000	0.00000E+000	1.84521E-006
Tractors/Loaders/Backhoes	6.73867E-001	2.57985E-001	-1.71035E-002	0.00000E+000	2.21062E-001	1.53429E-001	0.00000E+000	1.26944E-006	1.26944E-006	0.00000E+000	0.00000E+000	0.00000E+000	1.00885E-006
Welders	7.25087E-001	-4.06638E-002	1.71708E-001	0.00000E+000	-2.57019E-002	-2.57019E-002	0.00000E+000	1.04688E-006	1.04688E-006	0.00000E+000	0.00000E+000	0.00000E+000	1.25186E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	55.00	PM2.5 Reduction	55.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Demobilize 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Pipe Installation	Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.55
Pipe Installation	Roads	0.09	0.03	0.09	0.03	0.00	0.00
Worker Trips	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	Roads	0.10	0.03	0.10	0.03	0.00	0.00

### Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.00	0.15		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

**Pipeline Safety & Reliability Project - Reclaimed Water**  
**San Diego County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - This model only evaluates the potential emissions associated with using 100 percent reclaimed water for the project.

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average haul trip length adjusted per location along line.

On-road Fugitive Dust - Assume hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	71.00
tblConstructionPhase	NumDays	0.00	131.00
tblConstructionPhase	NumDays	0.00	306.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	12/6/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	6/1/2019	9/14/2018
tblConstructionPhase	PhaseStartDate	9/15/2018	10/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	4/16/2018

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripLength	20.00	113.00
tblTripsAndVMT	HaulingTripLength	20.00	31.00
tblTripsAndVMT	HaulingTripLength	20.00	55.00
tblTripsAndVMT	HaulingTripNumber	0.00	407.00
tblTripsAndVMT	HaulingTripNumber	0.00	878.00
tblTripsAndVMT	HaulingTripNumber	0.00	997.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	PhaseName		HDD
tblTripsAndVMT	PhaseName		Hydrotest
tblTripsAndVMT	PhaseName		Pipe Installation
tblTripsAndVMT	VendorVehicleClass		MHDT
tblTripsAndVMT	VendorVehicleClass		MHDT
tblTripsAndVMT	VendorVehicleClass		MHDT

## 2.0 Emissions Summary

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### 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					
2018	0.0429	0.7054	0.3827	2.3500e-003	1.2092	0.0106	1.2197	0.1323	9.7000e-003	0.1420	0.0000	208.0965	208.0965	1.3900e-003	0.0000	208.1257
<b>Total</b>	<b>0.0429</b>	<b>0.7054</b>	<b>0.3827</b>	<b>2.3500e-003</b>	<b>1.2092</b>	<b>0.0106</b>	<b>1.2197</b>	<b>0.1323</b>	<b>9.7000e-003</b>	<b>0.1420</b>	<b>0.0000</b>	<b>208.0965</b>	<b>208.0965</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>208.1257</b>

#### 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					
2018	0.0429	0.7054	0.3827	2.3500e-003	0.3830	0.0106	0.3936	0.0498	9.7000e-003	0.0595	0.0000	208.0965	208.0965	1.3900e-003	0.0000	208.1257
<b>Total</b>	<b>0.0429</b>	<b>0.7054</b>	<b>0.3827</b>	<b>2.3500e-003</b>	<b>0.3830</b>	<b>0.0106</b>	<b>0.3936</b>	<b>0.0498</b>	<b>9.7000e-003</b>	<b>0.0595</b>	<b>0.0000</b>	<b>208.0965</b>	<b>208.0965</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>208.1257</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	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	Pipe Installation	Site Preparation	1/9/2018	12/31/2018	6	306	
2	HDD	Building Construction	4/16/2018	9/14/2018	6	131	
3	Hydrotest	Building Construction	10/10/2018	12/31/2018	6	71	

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
HDD	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
HDD	Forklifts	0	6.00	89	0.20
Hydrotest	Forklifts	0	6.00	89	0.20
Pipe Installation	Graders	0	8.00	174	0.41
HDD	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

















## 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
Consumer Products	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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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						
Consumer Products	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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**Pipeline Safety & Reliability Project - Reclaimed Water**  
**San Diego County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - This model only evaluates the potential emissions associated with using 100 percent reclaimed water for the project.

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average haul trip length adjusted per location along line.

On-road Fugitive Dust - Assume hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/22/2019	1/6/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripLength	20.00	55.00
tblTripsAndVMT	HaulingTripLength	20.00	31.00
tblTripsAndVMT	PhaseName		Pipe Installation
tblTripsAndVMT	PhaseName		Hydrotest
tblTripsAndVMT	VendorTripLength	7.30	10.00
tblTripsAndVMT	VendorTripLength	7.30	10.00

## 2.0 Emissions Summary

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### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipe Installation	Site Preparation	1/1/2019	1/16/2019	6	14	
2	Hydrotest	Building Construction	1/1/2019	1/6/2019	6	5	

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
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Pipe Installation	Graders	0	8.00	174	0.41
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pipe Installation	0	0.00	0.00	46.00	10.80	10.00	55.00	LD_Mix	HDT_Mix	HHDT
Hydrotest	0	0.00	0.00	62.00	10.80	10.00	31.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction













## 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
Consumer Products	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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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
Consumer Products	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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**Pipeline Safety & Reliability Project - Reclaimed Water**  
**San Diego County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - This model only evaluates the potential emissions associated with using 100 percent reclaimed water for the project.

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average haul trip length adjusted per location along line.

On-road Fugitive Dust - Assume hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	71.00
tblConstructionPhase	NumDays	0.00	131.00
tblConstructionPhase	NumDays	0.00	306.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	12/6/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	6/1/2019	9/14/2018
tblConstructionPhase	PhaseStartDate	9/15/2018	10/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	4/16/2018

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripLength	20.00	113.00
tblTripsAndVMT	HaulingTripLength	20.00	31.00
tblTripsAndVMT	HaulingTripLength	20.00	55.00
tblTripsAndVMT	HaulingTripNumber	0.00	407.00
tblTripsAndVMT	HaulingTripNumber	0.00	878.00
tblTripsAndVMT	HaulingTripNumber	0.00	997.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	PhaseName		HDD
tblTripsAndVMT	PhaseName		Hydrotest
tblTripsAndVMT	PhaseName		Pipe Installation
tblTripsAndVMT	VendorVehicleClass		MHDT
tblTripsAndVMT	VendorVehicleClass		MHDT
tblTripsAndVMT	VendorVehicleClass		MHDT

## 2.0 Emissions Summary

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### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.4077	6.0875	3.6831	0.0207	13.6595	0.0929	13.7467	1.4762	0.0855	1.5564	0.0000	2,026.143 1	2,026.143 1	0.0138	0.0000	2,026.432 3
<b>Total</b>	<b>0.4077</b>	<b>6.0875</b>	<b>3.6831</b>	<b>0.0207</b>	<b>13.6595</b>	<b>0.0929</b>	<b>13.7467</b>	<b>1.4762</b>	<b>0.0855</b>	<b>1.5564</b>	<b>0.0000</b>	<b>2,026.143 1</b>	<b>2,026.143 1</b>	<b>0.0138</b>	<b>0.0000</b>	<b>2,026.432 3</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.4077	6.0875	3.6831	0.0207	4.2619	0.0929	4.3491	0.5380	0.0855	0.6182	0.0000	2,026.143 1	2,026.143 1	0.0138	0.0000	2,026.432 3
<b>Total</b>	<b>0.4077</b>	<b>6.0875</b>	<b>3.6831</b>	<b>0.0207</b>	<b>4.2619</b>	<b>0.0929</b>	<b>4.3491</b>	<b>0.5380</b>	<b>0.0855</b>	<b>0.6182</b>	<b>0.0000</b>	<b>2,026.143 1</b>	<b>2,026.143 1</b>	<b>0.0138</b>	<b>0.0000</b>	<b>2,026.432 3</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	0.00	0.00	0.00	0.00	68.80	0.00	68.36	63.55	0.00	60.28	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	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 Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	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>

	ROG	NOx	CO	SO2	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	Pipe Installation	Site Preparation	1/9/2018	12/31/2018	6	306	
2	HDD	Building Construction	4/16/2018	9/14/2018	6	131	
3	Hydrotest	Building Construction	10/10/2018	12/31/2018	6	71	

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
HDD	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
HDD	Forklifts	0	6.00	89	0.20
Hydrotest	Forklifts	0	6.00	89	0.20
Pipe Installation	Graders	0	8.00	174	0.41
HDD	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
HDD	0	0.00	0.00	407.00	10.80	10.00	113.00	LD_Mix	MHDT	HHDT
Hydrotest	0	0.00	0.00	878.00	10.80	10.00	31.00	LD_Mix	MHDT	HHDT
Pipe Installation	0	0.00	0.00	997.00	10.80	10.00	55.00	LD_Mix	MHDT	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Pipe Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					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
<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>	<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>

### 3.2 Pipe Installation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1170	1.9040	0.9619	6.5700e-003	2.7923	0.0295	2.8218	0.3056	0.0272	0.3327		642.4036	642.4036	4.3000e-003		642.4938
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.1170</b>	<b>1.9040</b>	<b>0.9619</b>	<b>6.5700e-003</b>	<b>2.7923</b>	<b>0.0295</b>	<b>2.8218</b>	<b>0.3056</b>	<b>0.0272</b>	<b>0.3327</b>		<b>642.4036</b>	<b>642.4036</b>	<b>4.3000e-003</b>		<b>642.4938</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	lb/day										lb/day					
Fugitive Dust					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
<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>	<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>		<b>0.0000</b>

### 3.2 Pipe Installation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1170	1.9040	0.9619	6.5700e-003	0.8815	0.0295	0.9110	0.1148	0.0272	0.1420		642.4036	642.4036	4.3000e-003		642.4938
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.1170</b>	<b>1.9040</b>	<b>0.9619</b>	<b>6.5700e-003</b>	<b>0.8815</b>	<b>0.0295</b>	<b>0.9110</b>	<b>0.1148</b>	<b>0.0272</b>	<b>0.1420</b>		<b>642.4036</b>	<b>642.4036</b>	<b>4.3000e-003</b>		<b>642.4938</b>

### 3.3 HDD - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**3.3 HDD - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2046	3.6631	1.4818	0.0128	10.8672	0.0577	10.9249	1.1706	0.0531	1.2237		1,252.803 1	1,252.803 1	8.2400e- 003		1,252.976 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.2046</b>	<b>3.6631</b>	<b>1.4818</b>	<b>0.0128</b>	<b>10.8672</b>	<b>0.0577</b>	<b>10.9249</b>	<b>1.1706</b>	<b>0.0531</b>	<b>1.2237</b>		<b>1,252.803 1</b>	<b>1,252.803 1</b>	<b>8.2400e- 003</b>		<b>1,252.976 2</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	lb/day										lb/day					
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### 3.3 HDD - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2046	3.6631	1.4818	0.0128	3.3804	0.0577	3.4381	0.4232	0.0531	0.4763		1,252.803 1	1,252.803 1	8.2400e- 003		1,252.976 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.2046</b>	<b>3.6631</b>	<b>1.4818</b>	<b>0.0128</b>	<b>3.3804</b>	<b>0.0577</b>	<b>3.4381</b>	<b>0.4232</b>	<b>0.0531</b>	<b>0.4763</b>		<b>1,252.803 1</b>	<b>1,252.803 1</b>	<b>8.2400e- 003</b>		<b>1,252.976 2</b>

### 3.4 Hydrotest - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### 3.4 Hydrotest - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2907	4.1835	2.7212	0.0142	5.9735	0.0634	6.0368	0.6538	0.0583	0.7121		1,383.7395	1,383.7395	9.4800e-003		1,383.9385
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.2907</b>	<b>4.1835</b>	<b>2.7212</b>	<b>0.0142</b>	<b>5.9735</b>	<b>0.0634</b>	<b>6.0368</b>	<b>0.6538</b>	<b>0.0583</b>	<b>0.7121</b>		<b>1,383.7395</b>	<b>1,383.7395</b>	<b>9.4800e-003</b>		<b>1,383.9385</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	lb/day										lb/day					
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>



LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512639	0.073513	0.191470	0.131122	0.036200	0.005158	0.012615	0.022741	0.001866	0.002067	0.006563	0.000594	0.003452

**5.0 Energy Detail**

**5.1 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	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

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	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
<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>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**Pipeline Safety & Reliability Project - Reclaimed Water**  
**San Diego County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - This model only evaluates the potential emissions associated with using 100 percent reclaimed water for the project.

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average haul trip length adjusted per location along line.

On-road Fugitive Dust - Assume hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/22/2019	1/6/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripLength	20.00	55.00
tblTripsAndVMT	HaulingTripLength	20.00	31.00
tblTripsAndVMT	PhaseName		Pipe Installation
tblTripsAndVMT	PhaseName		Hydrotest
tblTripsAndVMT	VendorTripLength	7.30	10.00
tblTripsAndVMT	VendorTripLength	7.30	10.00

## 2.0 Emissions Summary

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### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipe Installation	Site Preparation	1/1/2019	1/16/2019	6	14	
2	Hydrotest	Building Construction	1/1/2019	1/6/2019	6	5	

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
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Pipe Installation	Graders	0	8.00	174	0.41
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pipe Installation	0	0.00	0.00	46.00	10.80	10.00	55.00	LD_Mix	HDT_Mix	HHDT
Hydrotest	0	0.00	0.00	62.00	10.80	10.00	31.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Pipe Installation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					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
<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>	<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>

### 3.2 Pipe Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.1150	1.7496	0.9447	6.6100e-003	2.8159	0.0293	2.8452	0.3082	0.0270	0.3352		636.7480	636.7480	4.2900e-003			636.8381
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0000	0.0000	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>0.1150</b>	<b>1.7496</b>	<b>0.9447</b>	<b>6.6100e-003</b>	<b>2.8159</b>	<b>0.0293</b>	<b>2.8452</b>	<b>0.3082</b>	<b>0.0270</b>	<b>0.3352</b>		<b>636.7480</b>	<b>636.7480</b>	<b>4.2900e-003</b>			<b>636.8381</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	lb/day										lb/day					
Fugitive Dust					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
<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>	<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>		<b>0.0000</b>

### 3.2 Pipe Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1150	1.7496	0.9447	6.6100e-003	0.8890	0.0293	0.9183	0.1158	0.0270	0.1428		636.7480	636.7480	4.2900e-003		636.8381
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.1150</b>	<b>1.7496</b>	<b>0.9447</b>	<b>6.6100e-003</b>	<b>0.8890</b>	<b>0.0293</b>	<b>0.9183</b>	<b>0.1158</b>	<b>0.0270</b>	<b>0.1428</b>		<b>636.7480</b>	<b>636.7480</b>	<b>4.2900e-003</b>		<b>636.8381</b>

### 3.3 Hydrotest - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
<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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### 3.3 Hydrotest - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2822	3.8280	2.6481	0.0142	5.9898	0.0626	6.0524	0.6556	0.0576	0.7132		1,363.7698	1,363.7698	9.4300e-003		1,363.9678
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.2822</b>	<b>3.8280</b>	<b>2.6481</b>	<b>0.0142</b>	<b>5.9898</b>	<b>0.0626</b>	<b>6.0524</b>	<b>0.6556</b>	<b>0.0576</b>	<b>0.7132</b>		<b>1,363.7698</b>	<b>1,363.7698</b>	<b>9.4300e-003</b>		<b>1,363.9678</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	lb/day										lb/day					
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>



LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512639	0.073513	0.191470	0.131122	0.036200	0.005158	0.012615	0.022741	0.001866	0.002067	0.006563	0.000594	0.003452

**5.0 Energy Detail**

**5.1 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	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

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**Pipeline Safety & Reliability Project - Reclaimed Water**  
**San Diego County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - This model only evaluates the potential emissions associated with using 100 percent reclaimed water for the project.

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average haul trip length adjusted per location along line.

On-road Fugitive Dust - Assume hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	71.00
tblConstructionPhase	NumDays	0.00	131.00
tblConstructionPhase	NumDays	0.00	306.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	12/6/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	6/1/2019	9/14/2018
tblConstructionPhase	PhaseStartDate	9/15/2018	10/10/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	4/16/2018

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripLength	20.00	113.00
tblTripsAndVMT	HaulingTripLength	20.00	31.00
tblTripsAndVMT	HaulingTripLength	20.00	55.00
tblTripsAndVMT	HaulingTripNumber	0.00	407.00
tblTripsAndVMT	HaulingTripNumber	0.00	878.00
tblTripsAndVMT	HaulingTripNumber	0.00	997.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	PhaseName		HDD
tblTripsAndVMT	PhaseName		Hydrotest
tblTripsAndVMT	PhaseName		Pipe Installation
tblTripsAndVMT	VendorVehicleClass		MHDT
tblTripsAndVMT	VendorVehicleClass		MHDT
tblTripsAndVMT	VendorVehicleClass		MHDT

## 2.0 Emissions Summary

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### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.4364	6.2916	4.5483	0.0207	13.6595	0.0930	13.7468	1.4762	0.0856	1.5565	0.0000	2,023.468 3	2,023.468 3	0.0139	0.0000	2,023.759 9
<b>Total</b>	<b>0.4364</b>	<b>6.2916</b>	<b>4.5483</b>	<b>0.0207</b>	<b>13.6595</b>	<b>0.0930</b>	<b>13.7468</b>	<b>1.4762</b>	<b>0.0856</b>	<b>1.5565</b>	<b>0.0000</b>	<b>2,023.468 3</b>	<b>2,023.468 3</b>	<b>0.0139</b>	<b>0.0000</b>	<b>2,023.759 9</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.4364	6.2916	4.5483	0.0207	4.2619	0.0930	4.3491	0.5380	0.0856	0.6183	0.0000	2,023.468 3	2,023.468 3	0.0139	0.0000	2,023.759 9
<b>Total</b>	<b>0.4364</b>	<b>6.2916</b>	<b>4.5483</b>	<b>0.0207</b>	<b>4.2619</b>	<b>0.0930</b>	<b>4.3491</b>	<b>0.5380</b>	<b>0.0856</b>	<b>0.6183</b>	<b>0.0000</b>	<b>2,023.468 3</b>	<b>2,023.468 3</b>	<b>0.0139</b>	<b>0.0000</b>	<b>2,023.759 9</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	0.00	0.00	0.00	0.00	68.80	0.00	68.36	63.55	0.00	60.28	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	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 Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	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>

	ROG	NOx	CO	SO2	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	Pipe Installation	Site Preparation	1/9/2018	12/31/2018	6	306	
2	HDD	Building Construction	4/16/2018	9/14/2018	6	131	
3	Hydrotest	Building Construction	10/10/2018	12/31/2018	6	71	

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
HDD	Cranes	0	4.00	226	0.29
Hydrotest	Cranes	0	4.00	226	0.29
HDD	Forklifts	0	6.00	89	0.20
Hydrotest	Forklifts	0	6.00	89	0.20
Pipe Installation	Graders	0	8.00	174	0.41
HDD	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
HDD	0	0.00	0.00	407.00	10.80	10.00	113.00	LD_Mix	MHDT	HHDT
Hydrotest	0	0.00	0.00	878.00	10.80	10.00	31.00	LD_Mix	MHDT	HHDT
Pipe Installation	0	0.00	0.00	997.00	10.80	10.00	55.00	LD_Mix	MHDT	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Pipe Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					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
<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>	<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>

### 3.2 Pipe Installation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1229	1.9690	1.1405	6.5600e-003	2.7923	0.0296	2.8218	0.3056	0.0272	0.3328		641.8458	641.8458	4.3200e-003		641.9366
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.1229</b>	<b>1.9690</b>	<b>1.1405</b>	<b>6.5600e-003</b>	<b>2.7923</b>	<b>0.0296</b>	<b>2.8218</b>	<b>0.3056</b>	<b>0.0272</b>	<b>0.3328</b>		<b>641.8458</b>	<b>641.8458</b>	<b>4.3200e-003</b>		<b>641.9366</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	lb/day										lb/day					
Fugitive Dust					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
<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>	<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>		<b>0.0000</b>

### 3.2 Pipe Installation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1229	1.9690	1.1405	6.5600e-003	0.8815	0.0296	0.9111	0.1148	0.0272	0.1420		641.8458	641.8458	4.3200e-003		641.9366
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.1229</b>	<b>1.9690</b>	<b>1.1405</b>	<b>6.5600e-003</b>	<b>0.8815</b>	<b>0.0296</b>	<b>0.9111</b>	<b>0.1148</b>	<b>0.0272</b>	<b>0.1420</b>		<b>641.8458</b>	<b>641.8458</b>	<b>4.3200e-003</b>		<b>641.9366</b>

### 3.3 HDD - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**3.3 HDD - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2102	3.7906	1.6468	0.0128	10.8672	0.0577	10.9250	1.1706	0.0531	1.2237		1,252.2712	1,252.2712	8.2600e-003		1,252.4448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.2102</b>	<b>3.7906</b>	<b>1.6468</b>	<b>0.0128</b>	<b>10.8672</b>	<b>0.0577</b>	<b>10.9250</b>	<b>1.1706</b>	<b>0.0531</b>	<b>1.2237</b>		<b>1,252.2712</b>	<b>1,252.2712</b>	<b>8.2600e-003</b>		<b>1,252.4448</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	lb/day										lb/day					
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### 3.3 HDD - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2102	3.7906	1.6468	0.0128	3.3804	0.0577	3.4381	0.4232	0.0531	0.4763		1,252.2712	1,252.2712	8.2600e-003		1,252.4448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.2102</b>	<b>3.7906</b>	<b>1.6468</b>	<b>0.0128</b>	<b>3.3804</b>	<b>0.0577</b>	<b>3.4381</b>	<b>0.4232</b>	<b>0.0531</b>	<b>0.4763</b>		<b>1,252.2712</b>	<b>1,252.2712</b>	<b>8.2600e-003</b>		<b>1,252.4448</b>

### 3.4 Hydrotest - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### 3.4 Hydrotest - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3135	4.3226	3.4078	0.0141	5.9735	0.0635	6.0370	0.6538	0.0584	0.7122		1,381.6224	1,381.6224	9.5700e-003		1,381.8234
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.3135</b>	<b>4.3226</b>	<b>3.4078</b>	<b>0.0141</b>	<b>5.9735</b>	<b>0.0635</b>	<b>6.0370</b>	<b>0.6538</b>	<b>0.0584</b>	<b>0.7122</b>		<b>1,381.6224</b>	<b>1,381.6224</b>	<b>9.5700e-003</b>		<b>1,381.8234</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	lb/day										lb/day					
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>



LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512639	0.073513	0.191470	0.131122	0.036200	0.005158	0.012615	0.022741	0.001866	0.002067	0.006563	0.000594	0.003452

**5.0 Energy Detail**

**5.1 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	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

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	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
<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>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**Pipeline Safety & Reliability Project - Reclaimed Water**  
**San Diego County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2019
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - This model only evaluates the potential emissions associated with using 100 percent reclaimed water for the project.

Land Use - No land use type has been entered as the project consists of installing a natural gas pipeline.

Construction Phase - Construction schedule taken from Chapter 3 - Project Description.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Off-road Equipment - Equipment list taken from Chapter 3 - Project Description. Default equipment set to zero.

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average haul trip length adjusted per location along line.

On-road Fugitive Dust - Assume hauling trips are 99 percent paved.

Grading - Total Area Disturbed = 30.1 acres

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Equipment list taken from Chapter 3 - Project Description. All truck trip travel assumed to be off-road equipment.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	1/22/2019	1/6/2019
tblConstructionPhase	PhaseStartDate	1/17/2019	1/1/2019
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripLength	20.00	55.00
tblTripsAndVMT	HaulingTripLength	20.00	31.00
tblTripsAndVMT	PhaseName		Pipe Installation
tblTripsAndVMT	PhaseName		Hydrotest
tblTripsAndVMT	VendorTripLength	7.30	10.00
tblTripsAndVMT	VendorTripLength	7.30	10.00

## 2.0 Emissions Summary

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### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipe Installation	Site Preparation	1/1/2019	1/16/2019	6	14	
2	Hydrotest	Building Construction	1/1/2019	1/6/2019	6	5	

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
Hydrotest	Cranes	0	4.00	226	0.29
Hydrotest	Forklifts	0	6.00	89	0.20
Pipe Installation	Graders	0	8.00	174	0.41
Hydrotest	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipe Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pipe Installation	0	0.00	0.00	46.00	10.80	10.00	55.00	LD_Mix	HDT_Mix	HHDT
Hydrotest	0	0.00	0.00	62.00	10.80	10.00	31.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Pipe Installation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					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
<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>	<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>

### 3.2 Pipe Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1204	1.8094	1.1209	6.6100e-003	2.8159	0.0294	2.8453	0.3082	0.0270	0.3352		636.1946	636.1946	4.3200e-003		636.2853
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.1204</b>	<b>1.8094</b>	<b>1.1209</b>	<b>6.6100e-003</b>	<b>2.8159</b>	<b>0.0294</b>	<b>2.8453</b>	<b>0.3082</b>	<b>0.0270</b>	<b>0.3352</b>		<b>636.1946</b>	<b>636.1946</b>	<b>4.3200e-003</b>		<b>636.2853</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	lb/day										lb/day					
Fugitive Dust					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
<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>	<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>		<b>0.0000</b>

### 3.2 Pipe Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1204	1.8094	1.1209	6.6100e-003	0.8890	0.0294	0.9183	0.1158	0.0270	0.1428		636.1946	636.1946	4.3200e-003		636.2853
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.1204</b>	<b>1.8094</b>	<b>1.1209</b>	<b>6.6100e-003</b>	<b>0.8890</b>	<b>0.0294</b>	<b>0.9183</b>	<b>0.1158</b>	<b>0.0270</b>	<b>0.1428</b>		<b>636.1946</b>	<b>636.1946</b>	<b>4.3200e-003</b>		<b>636.2853</b>

### 3.3 Hydrotest - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
<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>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### 3.3 Hydrotest - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3030	3.9551	3.3219	0.0142	5.9898	0.0627	6.0525	0.6556	0.0577	0.7133		1,361.6814	1,361.6814	9.5200e-003		1,361.8813
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.3030</b>	<b>3.9551</b>	<b>3.3219</b>	<b>0.0142</b>	<b>5.9898</b>	<b>0.0627</b>	<b>6.0525</b>	<b>0.6556</b>	<b>0.0577</b>	<b>0.7133</b>		<b>1,361.6814</b>	<b>1,361.6814</b>	<b>9.5200e-003</b>		<b>1,361.8813</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	lb/day										lb/day					
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
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>



LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512639	0.073513	0.191470	0.131122	0.036200	0.005158	0.012615	0.022741	0.001866	0.002067	0.006563	0.000594	0.003452

**5.0 Energy Detail**

**5.1 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	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

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	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>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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## Pipeline Safety & Reliability Project - Reclaimed Water

### San Diego County, Mitigation Report

#### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
HDD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Cranes	Diesel	No Change	0	0	No Change	0.00
Forklifts	Diesel	No Change	0	0	No Change	0.00
Graders	Diesel	No Change	0	0	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	0	No Change	0.00



Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	55.00	PM2.5 Reduction	55.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
HDD	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
HDD	Roads	0.64	0.07	0.20	0.03	0.69	0.63
Hydrotest	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	Roads	0.19	0.02	0.06	0.01	0.68	0.62
Pipe Installation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Pipe Installation	Roads	0.38	0.04	0.12	0.02	0.68	0.62

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.00	0.15		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	



Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balkhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balkhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	55.00	PM2.5 Reduction	55.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Hydrotest	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	Roads	0.01	0.00	0.00	0.00	0.68	0.61
Pipe Installation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Pipe Installation	Roads	0.02	0.00	0.01	0.00	0.68	0.62

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
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No	Land Use	Increase Density	0.00		
No	Land Use	Increase Diversity	0.00	0.15	
No	Land Use	Improve Walkability Design	0.00		
No	Land Use	Improve Destination Accessibility	0.00		
No	Land Use	Increase Transit Accessibility	0.25		
No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			

No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00	2.00	
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No	Install low-flow Shower	20.00	
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No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	