

Appendix C

Air Quality and Global Climate Change Impacts Evaluation Supporting Documentation

Modesto Del Rio Project - GHG-related Calculations for use with CALEEMOD

Table Appx-1. Pump Energy Use Calculations					
Pumps	Pump Size (hp)	Pump Size (KW)	Average use per year (assuming 8 hours use per day)	Energy Intensity (KWhr/year)	
Site A- Pump 1	60	44.8	3942	176,444	
Site A- Pump 2	60	44.8	3942	176,444	
Site A- Pump 3	60	44.8	3942	176,444	
Site A- Pump 4	60	44.8	3942	176,444	
Site B Pump	200	149.2	3942	588,146	

TOTAL
1,293,922 (KWhr/Year)
640.6 qft
(assuming project building = 2020 sf)

Table Appx-2. Proposed Building Calculations:	
Pump Station Building:	2020 sqft
Tank	173 sqft

Table Appx-3. Landscaping Water Use Calculations				
Landscaping Area (Sqft)	Landscaping Area (acres)	Water Use Factor (for City Park from CALEEMOD User Guide Appendix D Table 9-1) (Gallons/acre/year)	Water Use (gallons/year)	
10522	0.2416	1191481	287862	

Table Appx-4. Hauling Truck Trip Estimates for Soils Generated during Pipeline Activities

Pipeline (combined) = 3000 linear feet (approx. 0.57 miles)

Disturbance area width = 20 feet

Total area disturbed = 60000 sf (1.38 acres)

Assume install approximately 200 feet of pipeline/day then add 1 week for buffer = 4 weeks (20 days) to install pipelines

Maximum area disturbed daily = 8000 square feet

Estimate trench depth of 6 feet, trench width of 6 feet, estimate approximately 90% of excavated soil is returned to trench.

Total excavated volume = 180000 cubic feet 6667 cubic yards

Total spoils to be disposed of = 18000 cubic feet 667 cubic yards

Volume disposed of per day (assuming 200 linear sf disturbed each day)	900 cubic feet	33 cubic yards
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Assume each hauling truck can carry 20 cubic yards. That would result in approx. 2 roundtrip truck trips (4 one-way trips) per day for pipeline trenching to carry the approximately 33 cubic yards requiring disposal. It was assumed pipeline jack and bore trips would be about half of the trenching. Trips would be to Site A and an assumed distance of 2 miles per roundtrip for all pipeline activities. These values were used for CALEEMOD's Trips and VMT section.

Table Appx-5. Soil Export Calculations (Project Sites)

Total area disturbed Site A + Site B = 190,000 sf (4.4 acres)

Assume entire site acreage will require exported soil for a 0.5-ft depth

Soil excavated volume = 95000 cubic feet 3519 cubic yards

Assume only 10% needs to be exported. Assume 25% is exported during site preparation and 75% exported during grading.

Site Prep Soil Export Volume	2375 cubic feet	88 cubic yards
Grading Soil Export Volume	7125 cubic feet	264 cubic yards

These *cubic yard* values were used in CALEEMOD's Grading section for the Site Preparation and Grading construction phases.

Modesto Del Rio
Stanislaus County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	4.40	2,020.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2018
Utility Company	Modesto Irrigation District				
CO2 Intensity (lb/MWhr)	833.46	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage reflects actual acreage of the combined Site A and Site B parcels (4.4 acres). Square feet = pump station building (2,020 sf).

Construction Phase - Pipe duration = 3000 total ft of pipe / install 200 ft pipe/day = 15 days + 5 for issues. Duration of well drilling activities and jack/bore based on City input.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Used RoadMod equipment assumptions from its drainage/subgrade phase.

Off-road Equipment -

Off-road Equipment - Specific equipment details, including 475 hp of drilling rig, were provided by City.

Off-road Equipment - Equipment list based on Sacramento Roadmod equipment defaults for trenching activities.

Off-road Equipment -

Off-road Equipment - Specifics of well drilling equipment, including 475 horsepower of drilling rig, were provided by City.

Trips and VMT - Estimated worker trips using ~2.5 trips/worker and estimated bldg const (10 workers), well drill (5), and jack/bore (6). Adjusted vendor to 2 per day. Arch. coating workers ~20% of bldg const. Pipe hauling assumed to be 2 miles roundtrip to Site A.

Demolition - Estimated square footages of 5 structures to be removed at Site A based on aerial images. 5 structures include a house (1828 square feet), garage (465sf), pump house (37sf), shed (363sf), and shop (768sf).

Grading - Updated acres disturbed to match total Site A+Site B for Grading/Site Prep, and estimated pipe disturbed area. Well Drilling area is based on an assumed disturbance area of 100 feet by 100 feet (approx. 0.23 acres).

Vehicle Trips - Assume an average of 1 daily trip for facility maintenance/operation.

Energy Use - Sum of the Site A + Site B pump energy intensities.

Water And Wastewater - Based on 60 percent design, 10,522 square feet (approx. 0.241 acres) would be irrigated. Matched CALEEMOD City Park use.

Land Use Change - Assume grassland replaced by mulch or paved areas. Sequestration notes indicate new trees.

Sequestration - Trees quantity/type from 60percent design (16 crabapple, 6 Chinese Tallow, and 48 Coast Redwood).

Water Mitigation -

Operational Off-Road Equipment - Site A + Site B each have 1 generator with the same 450 kw (603hp) size. Assumed that they each would be run for approximately 20 hours annually for routine maintenance.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	8.00	20.00

tblConstructionPhase	PhaseEndDate	2/28/2017	1/31/2017
tblConstructionPhase	PhaseEndDate	2/24/2017	2/23/2017
tblConstructionPhase	PhaseEndDate	5/10/2016	4/12/2016
tblConstructionPhase	PhaseStartDate	4/13/2016	3/16/2016
tblConstructionPhase	PhaseStartDate	2/1/2017	1/31/2017
tblConstructionPhase	PhaseStartDate	4/13/2016	3/16/2016
tblEnergyUse	NT24E	0.00	640.60
tblGrading	AcresOfGrading	0.00	0.23
tblGrading	AcresOfGrading	10.00	0.01
tblGrading	AcresOfGrading	0.00	1.40
tblGrading	MaterialExported	0.00	264.00
tblGrading	MaterialExported	0.00	88.00
tblLandUse	LandUseSquareFeet	0.00	2,020.00
tblLandUse	LotAcreage	0.00	4.40
tblOffRoadEquipment	HorsePower	205.00	475.00
tblOffRoadEquipment	HorsePower	205.00	475.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	20.00
tblOperationalOffRoadEquipment	OperHorsePower	84.00	603.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	NumberOfNewTrees	0.00	70.00
tblTripsAndVMT	HaulingTripLength	20.00	2.00

tblTripsAndVMT	HaulingTripLength	20.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	80.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	30.00	13.00
tblTripsAndVMT	WorkerTripNumber	30.00	15.00
tblTripsAndVMT	WorkerTripNumber	1.00	25.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblVehicleTrips	CNW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	1.00
tblWater	OutdoorWaterUseRate	0.00	287,862.00

2.0 Emissions Summary

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	9.2900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	489.2027	489.2027	0.0170	3.5200e-003	490.6519
Mobile	4.8000e-004	1.4300e-003	4.9800e-003	1.0000e-005	6.5000e-004	2.0000e-005	6.7000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	0.8215	0.8215	3.0000e-005	0.0000	0.8221
Offroad	4.2300e-003	0.0466	0.0202	1.0000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	10.1435	10.1435	3.4000e-004	0.0000	10.1506
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3809	0.3809	1.0000e-005	0.0000	0.3820
Total	0.0140	0.0481	0.0252	1.1000e-004	6.5000e-004	1.4000e-003	2.0500e-003	1.7000e-004	1.4000e-003	1.5700e-003	0.0000	500.5485	500.5485	0.0174	3.5200e-003	502.0066

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	9.2900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	489.2027	489.2027	0.0170	3.5200e-003	490.6519
Mobile	4.8000e-004	1.4300e-003	4.9800e-003	1.0000e-005	6.5000e-004	2.0000e-005	6.7000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	0.8215	0.8215	3.0000e-005	0.0000	0.8221
Offroad	4.2300e-003	0.0466	0.0202	1.0000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	10.1435	10.1435	3.4000e-004	0.0000	10.1506
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3577	0.3577	1.0000e-005	0.0000	0.3587
Total	0.0140	0.0481	0.0252	1.1000e-004	6.5000e-004	1.4000e-003	2.0500e-003	1.7000e-004	1.4000e-003	1.5700e-003	0.0000	500.5253	500.5253	0.0174	3.5200e-003	501.9833

	ROG	NOx	CO	SO2	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	30.21	97.02	80.21	90.91	0.00	98.57	67.32	0.00	98.57	87.90	0.00	2.03	2.03	1.95	0.00	2.03

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	49.5600
Vegetation Land Change	-18.9640
Total	30.5960

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/4/2016	5	5	
3	Grading	Grading	2/5/2016	2/16/2016	5	8	
4	Well Construction (Drilling)	Grading	2/17/2016	3/15/2016	5	20	
5	Pipeline Construction (Jack/Bore)	Grading	3/16/2016	4/12/2016	5	20	
6	Pipeline Construction (Trenching)	Trenching	3/16/2016	4/12/2016	5	20	
7	Building Construction	Building Construction	3/16/2016	1/31/2017	5	230	
8	Paving	Paving	1/31/2017	2/23/2017	5	18	
9	Architectural Coating	Architectural Coating	2/24/2017	3/21/2017	5	18	

Acres of Grading (Site Preparation Phase): 1.4

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,030; Non-Residential Outdoor: 1,010 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Well Construction (Drilling)	Bore/Drill Rigs	1	8.00	475	0.50
Well Construction (Drilling)	Cement and Mortar Mixers	1	8.00	9	0.56
Well Construction (Drilling)	Excavators	1	0.00	162	0.38
Well Construction (Drilling)	Graders	1	0.00	174	0.41
Well Construction (Drilling)	Other Construction Equipment	1	8.00	171	0.42
Well Construction (Drilling)	Other Material Handling Equipment	1	8.00	167	0.40
Well Construction (Drilling)	Pressure Washers	1	8.00	13	0.30
Well Construction (Drilling)	Rubber Tired Dozers	1	0.00	255	0.40
Well Construction (Drilling)	Surfacing Equipment	1	8.00	253	0.30
Well Construction (Drilling)	Tractors/Loaders/Backhoes	3	0.00	97	0.37
Pipeline Construction (Jack/Bore)	Bore/Drill Rigs	1	8.00	475	0.50
Pipeline Construction (Jack/Bore)	Cement and Mortar Mixers	1	8.00	9	0.56
Pipeline Construction (Jack/Bore)	Excavators	1	8.00	162	0.38

Pipeline Construction (Jack/Bore)	Graders	1	8.00	174	0.41
Pipeline Construction (Jack/Bore)	Other Construction Equipment	1	8.00	171	0.42
Pipeline Construction (Jack/Bore)	Other Material Handling Equipment	1	8.00	167	0.40
Pipeline Construction (Jack/Bore)	Pressure Washers	1	8.00	13	0.30
Pipeline Construction (Jack/Bore)	Rubber Tired Dozers	1	8.00	255	0.40
Pipeline Construction (Jack/Bore)	Surfacing Equipment	1	8.00	253	0.30
Pipeline Construction (Jack/Bore)	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Pipeline Construction (Trenching)	Air Compressors	1	8.00	78	0.48
Pipeline Construction (Trenching)	Generator Sets	1	8.00	84	0.74
Pipeline Construction (Trenching)	Graders	1	8.00	174	0.41
Pipeline Construction (Trenching)	Plate Compactors	1	8.00	8	0.43
Pipeline Construction (Trenching)	Pumps	1	8.00	84	0.74
Pipeline Construction (Trenching)	Rough Terrain Forklifts	1	8.00	100	0.40
Pipeline Construction (Trenching)	Scrapers	2	8.00	361	0.48
Pipeline Construction (Trenching)	Signal Boards	2	8.00	6	0.82
Pipeline Construction (Trenching)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	16.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	11.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	33.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Well Construction (Drilling)	12	13.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Construction (Jack/Bore)	12	15.00	0.00	40.00	16.80	6.60	2.00	LD_Mix	HDT_Mix	HHDT
Pipeline Construction (Trenching)	12	30.00	1.00	80.00	16.80	6.60	2.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	25.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-003	0.0000	1.7000e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0974	37.0974	0.0101	0.0000	37.3092
Total	0.0429	0.4566	0.3503	4.0000e-004	1.7000e-003	0.0229	0.0246	2.6000e-004	0.0214	0.0216	0.0000	37.0974	37.0974	0.0101	0.0000	37.3092

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	2.1300e-003	1.8300e-003	1.0000e-005	1.4000e-004	3.0000e-005	1.7000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.5454	0.5454	0.0000	0.0000	0.5455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	9.7000e-004	9.7000e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.6570	1.6570	9.0000e-005	0.0000	1.6588
Total	8.2000e-004	3.1000e-003	0.0115	3.0000e-005	2.0000e-003	4.0000e-005	2.0500e-003	5.4000e-004	4.0000e-005	5.8000e-004	0.0000	2.2023	2.2023	9.0000e-005	0.0000	2.2042

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-003	0.0000	1.7000e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0973	37.0973	0.0101	0.0000	37.3092
Total	0.0429	0.4566	0.3503	4.0000e-004	1.7000e-003	0.0229	0.0246	2.6000e-004	0.0214	0.0216	0.0000	37.0973	37.0973	0.0101	0.0000	37.3092

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	2.1300e-003	1.8300e-003	1.0000e-005	1.4000e-004	3.0000e-005	1.7000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.5454	0.5454	0.0000	0.0000	0.5455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	9.7000e-004	9.7000e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.6570	1.6570	9.0000e-005	0.0000	1.6588
Total	8.2000e-004	3.1000e-003	0.0115	3.0000e-005	2.0000e-003	4.0000e-005	2.0500e-003	5.4000e-004	4.0000e-005	5.8000e-004	0.0000	2.2023	2.2023	9.0000e-005	0.0000	2.2042

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0459	0.0000	0.0459	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1366	0.1028	1.0000e-004		7.3500e-003	7.3500e-003		6.7600e-003	6.7600e-003	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777
Total	0.0127	0.1366	0.1028	1.0000e-004	0.0459	7.3500e-003	0.0533	0.0249	6.7600e-003	0.0317	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	1.4600e-003	1.2600e-003	0.0000	9.0000e-005	2.0000e-005	1.2000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.3749	0.3749	0.0000	0.0000	0.3750
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.9000e-004	2.9100e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4971	0.4971	3.0000e-005	0.0000	0.4976
Total	3.1000e-004	1.7500e-003	4.1700e-003	1.0000e-005	6.5000e-004	2.0000e-005	6.8000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	0.8720	0.8720	3.0000e-005	0.0000	0.8726

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					0.0459	0.0000	0.0459	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1366	0.1028	1.0000e-004		7.3500e-003	7.3500e-003		6.7600e-003	6.7600e-003	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777
Total	0.0127	0.1366	0.1028	1.0000e-004	0.0459	7.3500e-003	0.0533	0.0249	6.7600e-003	0.0317	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	1.4600e-003	1.2600e-003	0.0000	9.0000e-005	2.0000e-005	1.2000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.3749	0.3749	0.0000	0.0000	0.3750
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.9000e-004	2.9100e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4971	0.4971	3.0000e-005	0.0000	0.4976
Total	3.1000e-004	1.7500e-003	4.1700e-003	1.0000e-005	6.5000e-004	2.0000e-005	6.8000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	0.8720	0.8720	3.0000e-005	0.0000	0.8726

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1538	0.1043	1.2000e-004		8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003	0.0000	11.2266	11.2266	3.3900e-003	0.0000	11.2977
Total	0.0147	0.1538	0.1043	1.2000e-004	0.0262	8.7900e-003	0.0350	0.0135	8.0900e-003	0.0216	0.0000	11.2266	11.2266	3.3900e-003	0.0000	11.2977

3.4 Grading - 2016

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	3.3000e-004	4.3900e-003	3.7800e-003	1.0000e-005	2.8000e-004	7.0000e-005	3.5000e-004	8.0000e-005	6.0000e-005	1.4000e-004	0.0000	1.1248	1.1248	1.0000e-005	0.0000	1.1250
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	2.6000e-004	3.9000e-004	3.8800e-003	1.0000e-005	7.5000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6628	0.6628	3.0000e-005	0.0000	0.6635
Total	5.9000e-004	4.7800e-003	7.6600e-003	2.0000e-005	1.0300e-003	8.0000e-005	1.1000e-003	2.8000e-004	7.0000e-005	3.4000e-004	0.0000	1.7876	1.7876	4.0000e-005	0.0000	1.7885

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1538	0.1043	1.2000e-004		8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003	0.0000	11.2265	11.2265	3.3900e-003	0.0000	11.2977
Total	0.0147	0.1538	0.1043	1.2000e-004	0.0262	8.7900e-003	0.0350	0.0135	8.0900e-003	0.0216	0.0000	11.2265	11.2265	3.3900e-003	0.0000	11.2977

3.4 Grading - 2016

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	3.3000e-004	4.3900e-003	3.7800e-003	1.0000e-005	2.8000e-004	7.0000e-005	3.5000e-004	8.0000e-005	6.0000e-005	1.4000e-004	0.0000	1.1248	1.1248	1.0000e-005	0.0000	1.1250
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	2.6000e-004	3.9000e-004	3.8800e-003	1.0000e-005	7.5000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6628	0.6628	3.0000e-005	0.0000	0.6635
Total	5.9000e-004	4.7800e-003	7.6600e-003	2.0000e-005	1.0300e-003	8.0000e-005	1.1000e-003	2.8000e-004	7.0000e-005	3.4000e-004	0.0000	1.7876	1.7876	4.0000e-005	0.0000	1.7885

3.5 Well Construction (Drilling) - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2938	0.1549	4.0000e-004		0.0122	0.0122		0.0113	0.0113	0.0000	36.9186	36.9186	0.0110	0.0000	37.1491
Total	0.0236	0.2938	0.1549	4.0000e-004	1.2000e-004	0.0122	0.0124	1.0000e-005	0.0113	0.0113	0.0000	36.9186	36.9186	0.0110	0.0000	37.1491

3.5 Well Construction (Drilling) - 2016

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	1.1000e-004	9.2000e-004	1.3200e-003	0.0000	6.0000e-005	2.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1967	0.1967	0.0000	0.0000	0.1967
Worker	5.7000e-004	8.4000e-004	8.4100e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4360	1.4360	7.0000e-005	0.0000	1.4376
Total	6.8000e-004	1.7600e-003	9.7300e-003	2.0000e-005	1.6800e-003	3.0000e-005	1.7000e-003	4.5000e-004	2.0000e-005	4.7000e-004	0.0000	1.6327	1.6327	7.0000e-005	0.0000	1.6343

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2938	0.1549	4.0000e-004		0.0122	0.0122		0.0113	0.0113	0.0000	36.9185	36.9185	0.0110	0.0000	37.1491
Total	0.0236	0.2938	0.1549	4.0000e-004	1.2000e-004	0.0122	0.0124	1.0000e-005	0.0113	0.0113	0.0000	36.9185	36.9185	0.0110	0.0000	37.1491

3.5 Well Construction (Drilling) - 2016

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	1.1000e-004	9.2000e-004	1.3200e-003	0.0000	6.0000e-005	2.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1967	0.1967	0.0000	0.0000	0.1967
Worker	5.7000e-004	8.4000e-004	8.4100e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4360	1.4360	7.0000e-005	0.0000	1.4376
Total	6.8000e-004	1.7600e-003	9.7300e-003	2.0000e-005	1.6800e-003	3.0000e-005	1.7000e-003	4.5000e-004	2.0000e-005	4.7000e-004	0.0000	1.6327	1.6327	7.0000e-005	0.0000	1.6343

3.6 Pipeline Construction (Jack/Bore) - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0602	0.0000	0.0602	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0602	0.6782	0.4157	6.9000e-004		0.0342	0.0342		0.0315	0.0315	0.0000	64.9849	64.9849	0.0194	0.0000	65.3933
Total	0.0602	0.6782	0.4157	6.9000e-004	0.0602	0.0342	0.0944	0.0331	0.0315	0.0646	0.0000	64.9849	64.9849	0.0194	0.0000	65.3933

3.6 Pipeline Construction (Jack/Bore) - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	8.9000e-004	3.5000e-003	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1649	0.1649	0.0000	0.0000	0.1650
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	9.7000e-004	9.7000e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.6570	1.6570	9.0000e-005	0.0000	1.6588
Total	8.6000e-004	1.8600e-003	0.0132	2.0000e-005	1.8900e-003	2.0000e-005	1.9200e-003	5.1000e-004	2.0000e-005	5.3000e-004	0.0000	1.8219	1.8219	9.0000e-005	0.0000	1.8237

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					0.0602	0.0000	0.0602	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0602	0.6782	0.4157	6.9000e-004		0.0342	0.0342		0.0315	0.0315	0.0000	64.9849	64.9849	0.0194	0.0000	65.3932
Total	0.0602	0.6782	0.4157	6.9000e-004	0.0602	0.0342	0.0944	0.0331	0.0315	0.0646	0.0000	64.9849	64.9849	0.0194	0.0000	65.3932

3.6 Pipeline Construction (Jack/Bore) - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	8.9000e-004	3.5000e-003	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1649	0.1649	0.0000	0.0000	0.1650
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	9.7000e-004	9.7000e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.6570	1.6570	9.0000e-005	0.0000	1.6588
Total	8.6000e-004	1.8600e-003	0.0132	2.0000e-005	1.8900e-003	2.0000e-005	1.9200e-003	5.1000e-004	2.0000e-005	5.3000e-004	0.0000	1.8219	1.8219	9.0000e-005	0.0000	1.8237

3.7 Pipeline Construction (Trenching) - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0663	0.6867	0.4514	6.5000e-004		0.0365	0.0365		0.0344	0.0344	0.0000	59.0022	59.0022	0.0146	0.0000	59.3085
Total	0.0663	0.6867	0.4514	6.5000e-004		0.0365	0.0365		0.0344	0.0344	0.0000	59.0022	59.0022	0.0146	0.0000	59.3085

3.7 Pipeline Construction (Trenching) - 2016

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	4.1000e-004	1.7900e-003	6.9900e-003	0.0000	7.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.3298	0.3298	0.0000	0.0000	0.3299
Vendor	1.1000e-004	9.2000e-004	1.3200e-003	0.0000	6.0000e-005	2.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1967	0.1967	0.0000	0.0000	0.1967
Worker	1.3100e-003	1.9500e-003	0.0194	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.3139	3.3139	1.7000e-004	0.0000	3.3175
Total	1.8300e-003	4.6600e-003	0.0277	4.0000e-005	3.8600e-003	7.0000e-005	3.9200e-003	1.0300e-003	6.0000e-005	1.0900e-003	0.0000	3.8404	3.8404	1.7000e-004	0.0000	3.8441

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	0.0663	0.6867	0.4514	6.5000e-004		0.0365	0.0365		0.0344	0.0344	0.0000	59.0021	59.0021	0.0146	0.0000	59.3084
Total	0.0663	0.6867	0.4514	6.5000e-004		0.0365	0.0365		0.0344	0.0344	0.0000	59.0021	59.0021	0.0146	0.0000	59.3084

3.7 Pipeline Construction (Trenching) - 2016

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	4.1000e-004	1.7900e-003	6.9900e-003	0.0000	7.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.3298	0.3298	0.0000	0.0000	0.3299
Vendor	1.1000e-004	9.2000e-004	1.3200e-003	0.0000	6.0000e-005	2.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1967	0.1967	0.0000	0.0000	0.1967
Worker	1.3100e-003	1.9500e-003	0.0194	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.3139	3.3139	1.7000e-004	0.0000	3.3175
Total	1.8300e-003	4.6600e-003	0.0277	4.0000e-005	3.8600e-003	7.0000e-005	3.9200e-003	1.0300e-003	6.0000e-005	1.0900e-003	0.0000	3.8404	3.8404	1.7000e-004	0.0000	3.8441

3.8 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3543	2.9647	1.9247	2.7900e-003		0.2046	0.2046		0.1922	0.1922	0.0000	251.8397	251.8397	0.0625	0.0000	253.1514
Total	0.3543	2.9647	1.9247	2.7900e-003		0.2046	0.2046		0.1922	0.1922	0.0000	251.8397	251.8397	0.0625	0.0000	253.1514

3.8 Building Construction - 2016

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	2.3700e-003	0.0191	0.0275	5.0000e-005	1.2200e-003	3.3000e-004	1.5500e-003	3.5000e-004	3.0000e-004	6.5000e-004	0.0000	4.0904	4.0904	4.0000e-005	0.0000	4.0911	
Worker	0.0114	0.0169	0.1682	3.9000e-004	0.0323	2.5000e-004	0.0326	8.5800e-003	2.3000e-004	8.8100e-003	0.0000	28.7206	28.7206	1.4800e-003	0.0000	28.7517	
Total	0.0137	0.0360	0.1957	4.4000e-004	0.0335	5.8000e-004	0.0341	8.9300e-003	5.3000e-004	9.4600e-003	0.0000	32.8110	32.8110	1.5200e-003	0.0000	32.8428	

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	0.3543	2.9647	1.9247	2.7900e-003		0.2046	0.2046		0.1922	0.1922	0.0000	251.8394	251.8394	0.0625	0.0000	253.1511
Total	0.3543	2.9647	1.9247	2.7900e-003		0.2046	0.2046		0.1922	0.1922	0.0000	251.8394	251.8394	0.0625	0.0000	253.1511

3.8 Building Construction - 2016

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	2.3700e-003	0.0191	0.0275	5.0000e-005	1.2200e-003	3.3000e-004	1.5500e-003	3.5000e-004	3.0000e-004	6.5000e-004	0.0000	4.0904	4.0904	4.0000e-005	0.0000	4.0911	
Worker	0.0114	0.0169	0.1682	3.9000e-004	0.0323	2.5000e-004	0.0326	8.5800e-003	2.3000e-004	8.8100e-003	0.0000	28.7206	28.7206	1.4800e-003	0.0000	28.7517	
Total	0.0137	0.0360	0.1957	4.4000e-004	0.0335	5.8000e-004	0.0341	8.9300e-003	5.3000e-004	9.4600e-003	0.0000	32.8110	32.8110	1.5200e-003	0.0000	32.8428	

3.8 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.2905	0.1994	2.9000e-004		0.0196	0.0196		0.0184	0.0184	0.0000	26.3427	26.3427	6.4800e-003	0.0000	26.4789
Total	0.0341	0.2905	0.1994	2.9000e-004		0.0196	0.0196		0.0184	0.0184	0.0000	26.3427	26.3427	6.4800e-003	0.0000	26.4789

3.8 Building Construction - 2017

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	2.1000e-004	1.7800e-003	2.6700e-003	0.0000	1.3000e-004	3.0000e-005	1.6000e-004	4.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.4252	0.4252	0.0000	0.0000	0.4253	
Worker	1.0400e-003	1.5700e-003	0.0156	4.0000e-005	3.4200e-003	3.0000e-005	3.4400e-003	9.1000e-004	2.0000e-005	9.3000e-004	0.0000	2.9128	2.9128	1.4000e-004	0.0000	2.9158	
Total	1.2500e-003	3.3500e-003	0.0182	4.0000e-005	3.5500e-003	6.0000e-005	3.6000e-003	9.5000e-004	5.0000e-005	9.9000e-004	0.0000	3.3381	3.3381	1.4000e-004	0.0000	3.3411	

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	0.0341	0.2905	0.1994	2.9000e-004		0.0196	0.0196		0.0184	0.0184	0.0000	26.3427	26.3427	6.4800e-003	0.0000	26.4788
Total	0.0341	0.2905	0.1994	2.9000e-004		0.0196	0.0196		0.0184	0.0184	0.0000	26.3427	26.3427	6.4800e-003	0.0000	26.4788

3.8 Building Construction - 2017

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	2.1000e-004	1.7800e-003	2.6700e-003	0.0000	1.3000e-004	3.0000e-005	1.6000e-004	4.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.4252	0.4252	0.0000	0.0000	0.4253
Worker	1.0400e-003	1.5700e-003	0.0156	4.0000e-005	3.4200e-003	3.0000e-005	3.4400e-003	9.1000e-004	2.0000e-005	9.3000e-004	0.0000	2.9128	2.9128	1.4000e-004	0.0000	2.9158
Total	1.2500e-003	3.3500e-003	0.0182	4.0000e-005	3.5500e-003	6.0000e-005	3.6000e-003	9.5000e-004	5.0000e-005	9.9000e-004	0.0000	3.3381	3.3381	1.4000e-004	0.0000	3.3411

3.9 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2992	15.2992	4.5600e-003	0.0000	15.3950
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2992	15.2992	4.5600e-003	0.0000	15.3950

3.9 Paving - 2017

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	1.0300e-003	0.0102	3.0000e-005	2.2400e-003	2.0000e-005	2.2500e-003	5.9000e-004	2.0000e-005	6.1000e-004	0.0000	1.9066	1.9066	9.0000e-005	0.0000	1.9085	
Total	6.8000e-004	1.0300e-003	0.0102	3.0000e-005	2.2400e-003	2.0000e-005	2.2500e-003	5.9000e-004	2.0000e-005	6.1000e-004	0.0000	1.9066	1.9066	9.0000e-005	0.0000	1.9085	

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	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2991	15.2991	4.5600e-003	0.0000	15.3950
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2991	15.2991	4.5600e-003	0.0000	15.3950

3.9 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	1.0300e-003	0.0102	3.0000e-005	2.2400e-003	2.0000e-005	2.2500e-003	5.9000e-004	2.0000e-005	6.1000e-004	0.0000	1.9066	1.9066	9.0000e-005	0.0000	1.9085
Total	6.8000e-004	1.0300e-003	0.0102	3.0000e-005	2.2400e-003	2.0000e-005	2.2500e-003	5.9000e-004	2.0000e-005	6.1000e-004	0.0000	1.9066	1.9066	9.0000e-005	0.0000	1.9085

3.10 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0140					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
Total	0.0170	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030

3.10 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	2.6000e-004	2.5500e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4767	0.4767	2.0000e-005	0.0000	0.4771
Total	1.7000e-004	2.6000e-004	2.5500e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4767	0.4767	2.0000e-005	0.0000	0.4771

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0140					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
Total	0.0170	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030

3.10 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	2.6000e-004	2.5500e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4767	0.4767	2.0000e-005	0.0000	0.4771
Total	1.7000e-004	2.6000e-004	2.5500e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4767	0.4767	2.0000e-005	0.0000	0.4771

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.8000e-004	1.4300e-003	4.9800e-003	1.0000e-005	6.5000e-004	2.0000e-005	6.7000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	0.8215	0.8215	3.0000e-005	0.0000	0.8221
Unmitigated	4.8000e-004	1.4300e-003	4.9800e-003	1.0000e-005	6.5000e-004	2.0000e-005	6.7000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	0.8215	0.8215	3.0000e-005	0.0000	0.8221

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	1.00	0.00	0.00	1,716	1,716
Total	1.00	0.00	0.00	1,716	1,716

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
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	100.00	100	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.435645	0.065590	0.158610	0.181188	0.054616	0.007833	0.019470	0.064481	0.001777	0.001153	0.006200	0.000656	0.002782

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	1.29401e+006	489.2027	0.0170	3.5200e-003	490.6519
Total		489.2027	0.0170	3.5200e-003	490.6519

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	1.29401e+006	489.2027	0.0170	3.5200e-003	490.6519
Total		489.2027	0.0170	3.5200e-003	490.6519

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.2900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	9.2900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	9.2900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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	1.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	9.2900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3577	1.0000e-005	0.0000	0.3587
Unmitigated	0.3809	1.0000e-005	0.0000	0.3820

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0.287862	0.3809	1.0000e-005	0.0000	0.3820
Total		0.3809	1.0000e-005	0.0000	0.3820

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0.270302	0.3577	1.0000e-005	0.0000	0.3587
Total		0.3577	1.0000e-005	0.0000	0.3587

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Generator Sets	2	1.00	20	603	0.74	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					
Generator Sets	4.2300e-003	0.0466	0.0202	1.0000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	10.1435	10.1435	3.4000e-004	0.0000	10.1506
Total	4.2300e-003	0.0466	0.0202	1.0000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	10.1435	10.1435	3.4000e-004	0.0000	10.1506

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	30.5960	0.0000	0.0000	30.5960

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	4.4 / 0	-18.9640	0.0000	0.0000	-18.9640
Total		-18.9640	0.0000	0.0000	-18.9640

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	70	49.5600	0.0000	0.0000	49.5600
Total		49.5600	0.0000	0.0000	49.5600

