

## Summary of Project Emissions - Air Quality

### Total, w/o APMS

	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
tons										
Total w/o Helicopters	0.48	5.22	3.07	0.01	0.01	0.23	0.24	0.00	0.21	0.21
Helicopters	3.11	3.33	3.89	0.46	0.00	0.10	0.10	0.00	0.10	0.10
Total w/ Helicopters	3.59	8.56	6.96	0.47	0.01	0.33	0.34	0.00	0.31	0.31
average lbs/day										
Total w/o Helicopters	2.67	29.01	17.04	0.04	0.08	1.27	1.35	0.02	1.17	1.19
Helicopters	17.28	18.52	21.61	2.58	0.00	0.55	0.55	0.00	0.55	0.55
Total w/ Helicopters	19.95	47.54	38.66	2.62	0.08	1.82	1.90	0.02	1.72	1.74

#### Notes:

Average lbs/day is based on a 12-month construction schedule at 30 days per month

### Total w/ APMs

	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
tons										
Total w/o Helicopters	0.46	4.96	2.91	0.01	0.01	0.22	0.23	0.00	0.20	0.20
Helicopters	2.96	3.17	3.70	0.44	0.00	0.09	0.09	0.00	0.09	0.09
Total w/ Helicopters	3.41	8.13	6.61	0.45	0.01	0.31	0.32	0.00	0.29	0.30
average lbs/day										
Total w/o Helicopters	2.53	27.56	16.19	0.04	0.07	1.21	1.28	0.02	1.12	1.13
Helicopters	16.42	17.60	20.53	2.45	0.00	0.52	0.52	0.00	0.52	0.52
Total w/ Helicopters	18.95	45.16	36.73	2.49	0.07	1.73	1.80	0.02	1.64	1.65

#### Notes:

Average lbs/day is based on a 12-month construction schedule at 30 days per month

Consistent with the BAAQMD CEQA Air Quality Guidelines updated May 2012, the measures associated with minimizing vehicle idling time and maintaining equipment are assumed to reduce emissions 5%.

### Peak Daily w/ APMs

	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
Peak lbs/day										
Total w/o Helicopters	9.7	106.5	62.0	0.1	0.2	4.6	4.8	0.1	4.3	4.3
Helicopters*	55.5	83.2	69.2	10.2	0.0	2.4	2.4	0.0	2.4	2.4
Total w/ Helicopters	65.2	189.7	131.1	10.36	0.2	7.0	7.2	0.1	6.7	6.7

#### Notes:

Helicopter emissions assume a maximum of 2 light helicopters and 1 heavy helicopter operating at any one time.

Consistent with the BAAQMD CEQA Air Quality Guidelines updated May 2012, the measures associated with minimizing vehicle idling time and maintaining equipment are assumed to reduce emissions 5%.

## Summary of Project Emissions by Task Without APMs - Air Quality

Peak On-Site Emissions (lbs/day) - w/o APMs										
On-Site	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
Material and Equipment Hauling	0.59	6.64	3.16	0.01	0.00	0.25	0.25	0.00	0.23	0.23
Survey	0.40	4.23	3.16	0.00	0.00	0.22	0.22	0.00	0.21	0.21
Site Preparation	1.14	12.53	7.46	0.01	0.16	0.62	0.78	0.02	0.57	0.59
Pole Delivery and Install	0.71	7.12	5.35	0.01	0.00	0.40	0.40	0.00	0.38	0.38
Conductor Install	4.79	52.94	28.94	0.07	0.00	2.20	2.20	0.00	2.02	2.02
Circuit Breaker Installation	2.20	24.89	14.42	0.03	0.00	1.12	1.12	0.00	1.03	1.03
TSP Install	2.44	27.05	15.29	0.03	0.00	1.15	1.15	0.00	1.06	1.06
Restoration and Cleanup	0.95	9.67	6.66	0.00	0.00	0.50	0.50	0.00	0.46	0.46
<b>Peak On-Site Total</b>	<b>10.14</b>	<b>112.00</b>	<b>64.00</b>	<b>0.14</b>	<b>0.00</b>	<b>4.87</b>	<b>4.87</b>	<b>0.00</b>	<b>4.48</b>	<b>4.48</b>

Peak Off-Site Emissions (lbs/day) - w/o APMs										
Off-Site	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
Material and Equipment Hauling	0.01	0.02	0.15	0.00	0.03	0.00	0.03	0.01	0.00	0.01
Survey	0.01	0.02	0.15	0.00	0.03	0.00	0.03	0.01	0.00	0.01
Site Preparation	0.02	0.03	0.30	0.00	0.05	0.00	0.05	0.01	0.00	0.01
Pole Delivery and Install	0.02	0.03	0.25	0.00	0.05	0.00	0.05	0.01	0.00	0.01
Conductor Install	0.03	0.04	0.40	0.00	0.07	0.00	0.07	0.02	0.00	0.02
Circuit Breaker Installation	0.01	0.02	0.20	0.00	0.04	0.00	0.04	0.01	0.00	0.01
TSP Install	0.02	0.04	0.34	0.00	0.06	0.00	0.06	0.02	0.00	0.02
Restoration and Cleanup	0.01	0.01	0.09	0.00	0.02	0.00	0.02	0.01	0.00	0.01
<b>Peak Off-Site Total</b>	<b>0.09</b>	<b>0.12</b>	<b>1.18</b>	<b>0.00</b>	<b>0.22</b>	<b>0.00</b>	<b>0.22</b>	<b>0.06</b>	<b>0.00</b>	<b>0.06</b>

<b>Peak Total w/o APMs</b>	<b>10.23</b>	<b>112.12</b>	<b>65.18</b>	<b>0.14</b>	<b>0.216</b>	<b>4.88</b>	<b>5.09</b>	<b>0.06</b>	<b>4.49</b>	<b>4.54</b>
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## Summary of Project Emissions by Task With APMs - Air Quality

Peak On-Site Emissions (lbs/day) - w/ APMs										
<u>On-Site</u>	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
Material and Equipment Hauling	0.56	6.31	3.00	0.01	0.00	0.23	0.23	0.00	0.22	0.22
Survey	0.38	4.02	3.00	0.00	0.00	0.21	0.21	0.00	0.20	0.20
Site Preparation	1.08	11.90	7.08	0.01	0.07	0.59	0.66	0.01	0.54	0.55
Pole Delivery and Install	0.68	6.77	5.08	0.01	0.00	0.38	0.38	0.00	0.36	0.36
Conductor Install	4.55	50.30	27.49	0.06	0.00	2.09	2.09	0.00	1.92	1.92
Circuit Breaker Installation	2.09	23.64	13.70	0.03	0.00	1.07	1.07	0.00	0.98	0.98
TSP Install	2.32	25.70	14.53	0.03	0.00	1.09	1.09	0.00	1.01	1.01
Restoration and Cleanup	0.90	9.18	6.33	0.00	0.00	0.47	0.47	0.00	0.43	0.43
<b>Peak On-Site Total</b>	<b>9.63</b>	<b>106.40</b>	<b>60.80</b>	<b>0.13</b>	<b>0.00</b>	<b>4.63</b>	<b>4.63</b>	<b>0.00</b>	<b>4.26</b>	<b>4.26</b>

Peak Off-Site Emissions (lbs/day) - w/ APMs										
<u>Off-Site</u>	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
Material and Equipment Hauling	0.01	0.02	0.15	0.00	0.03	0.00	0.03	0.01	0.00	0.01
Survey	0.01	0.02	0.15	0.00	0.03	0.00	0.03	0.01	0.00	0.01
Site Preparation	0.02	0.03	0.30	0.00	0.05	0.00	0.05	0.01	0.00	0.01
Pole Delivery and Install	0.02	0.03	0.25	0.00	0.05	0.00	0.05	0.01	0.00	0.01
Conductor Install	0.03	0.04	0.40	0.00	0.07	0.00	0.07	0.02	0.00	0.02
Circuit Breaker Installation	0.01	0.02	0.20	0.00	0.04	0.00	0.04	0.01	0.00	0.01
TSP Install	0.02	0.04	0.34	0.00	0.06	0.00	0.06	0.02	0.00	0.02
Restoration and Cleanup	0.01	0.01	0.09	0.00	0.02	0.00	0.02	0.01	0.00	0.01
<b>Peak Off-Site Total</b>	<b>0.09</b>	<b>0.12</b>	<b>1.18</b>	<b>0.00</b>	<b>0.22</b>	<b>0.00</b>	<b>0.22</b>	<b>0.06</b>	<b>0.00</b>	<b>0.06</b>

<b>Peak Total w/ APMs</b>	<b>9.72</b>	<b>106.52</b>	<b>61.98</b>	<b>0.14</b>	<b>0.216</b>	<b>4.63</b>	<b>4.85</b>	<b>0.06</b>	<b>4.26</b>	<b>4.32</b>
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Notes:

Consistent with the BAAQMD CEQA Air Quality Guidelines updated May 2012, the measures associated with minimizing vehicle idling time and maintaining equipment are assumed to reduce emissions 5%.

## Helicopter Emissions Calculations - Air Quality

Activity	Qty.	Equip.	Mode	Days/ Week	Hours/ Day	Duration (weeks)	Power (shp)	Fuel Consumption (lb/hr)	Emission Factors (lb/hr)					Emissions									
									HC	Nox	CO	SOx	PM10	total (tons)					Peak daily (lbs/day)				
									HC	Nox	CO	SOx	PM10	HC	Nox	CO	SOx	PM10	HC	Nox	CO	SOx	PM10
Pole Installation	2	light duty - Hughes 500	LTO	7	0.68	17	317	36.2	4.4	0.6	5.7	0.0	0.0	0.35	0.05	0.46	0.00	0.00	5.9	0.8	7.7	0.1	0.0
Pole Installation	2	light duty - Hughes 500	Operation	7	9.33	17	317	218.3	2.1	1.1	2.6	0.2	0.0	2.35	1.17	2.94	0.26	0.04	39.5	19.7	49.3	4.4	0.7
Pole Installation	1	heavy duty - Bell 214B	LTO	7	0.68	9	1850	87.3	2.7	3.2	3.5	0.1	0.1	0.06	0.07	0.07	0.00	0.00	1.8	2.2	2.3	0.1	0.1
Pole Installation	1	heavy duty - Bell 214B	Operation	7	9.33	9	1850	613.0	1.2	7.0	1.4	0.7	0.2	0.35	2.04	0.42	0.20	0.06	11.2	64.9	13.4	6.2	1.8
<b>Total</b>														<b>3.111</b>	<b>3.33</b>	<b>3.89</b>	<b>0.46</b>	<b>0.10</b>	<b>58.4</b>	<b>87.6</b>	<b>72.8</b>	<b>10.8</b>	<b>2.5</b>

### Notes

Emission factors were obtained from the *FOCA Guidance on Determination of Helicopter Emissions, Edition 1, March 2009*

Emission factors for Bell 214B (single engine @ 1,850 shp) were derived from the emission factors for the Bell 412 (twin engines @ 1,800 shp each)

LTO = Landing and take-off cycle

Each day of 10-hour helicopter operations assumes 3 LTOs at 13/5 minutes each. The remaining time is assumed to be operational (no idle time has been assumed).

Jet Fuel assumed to contain an average 0.054% wt. sulfur per the FAA's Aviation Emissions, Impacts & Mitigation: a Primer, dated January 2015

**PG&E Fulton-Fitch**  
**Sonoma-San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	30.40	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	75
<b>Climate Zone</b>	4			<b>Operational Year</b>	2018
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics -

Land Use - Land Use - The project construction site work area, including staging areas, access areas, access roads, and temporary easement during construction is 30.4 acres.

Construction Phase - Non-default phases entered.

Off-road Equipment - Non-default equipment entered.

Off-road Equipment - Non-default equipment used.

Off-road Equipment - Non-default equipment used.

Off-road Equipment - Non-default equipment used

Off-road Equipment - Non-default equipment used.

Off-road Equipment - Non-default equipment and hours entered.

Off-road Equipment - Non-default equipment entered: pickup truck

Off-road Equipment - Non-default equipment used.

Off-road Equipment - Non-default equipment used.

Trips and VMT - Non-default number of workers used based on information provided by PG&E.

Grading - Includes 4.6 acres for pull sites, 0.1 acres for pole holes, 0.5 acres for turnarounds

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Non-default equipment used.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	500.00	105.00
tblConstructionPhase	NumDays	500.00	60.00
tblConstructionPhase	NumDays	45.00	35.00
tblConstructionPhase	NumDays	20.00	70.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00



tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Material and Equipment Hauling
tblOffRoadEquipment	PhaseName		Material and Equipment Hauling
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Survey
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.40
tblOffRoadEquipment	UsageHours	8.00	1.50
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	5.00	3.00
tblTripsAndVMT	WorkerTripNumber	18.00	6.00
tblTripsAndVMT	WorkerTripNumber	28.00	5.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	20.00	7.00
tblTripsAndVMT	WorkerTripNumber	10.00	2.00

## 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							
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Waste						0.0000	0.0000		0.0000	0.0000							
Water						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>							

## 2.2 Overall Operational

### Mitigated Operational

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

	ROG	NOx	CO	SO2	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	Material and Equipment Hauling	Site Preparation	6/26/2017	9/3/2017	7	70	
2	Survey	Site Preparation	7/3/2017	8/6/2017	5	25	
3	Site Preparation	Grading	8/7/2017	9/24/2017	5	35	Access Roads, Drainage Crossings
4	Pole Delivery and Install	Trenching	9/18/2017	1/14/2018	7	119	
5	Conductor Install	Building Construction	10/2/2017	1/14/2018	7	105	
6	Circuit Breaker Installation	Building Construction	10/23/2017	1/12/2018	5	60	
7	TSP Install	Trenching	12/4/2017	1/14/2018	7	42	
8	Restoration and Cleanup	Site Preparation	1/15/2018	3/11/2018	5	40	

**Acres of Grading (Site Preparation Phase): 5.2**

**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
Material and Equipment Hauling	Off-Highway Trucks	1	4.00	400	0.38
Material and Equipment Hauling	Off-Highway Trucks	1	1.40	400	0.38
Survey	Other Material Handling Equipment	1	6.40	167	0.40
Site Preparation	Crawler Tractors	1	1.90	208	0.43
Site Preparation	Off-Highway Trucks	1	0.50	400	0.38
Site Preparation	Off-Highway Trucks	1	2.80	400	0.38
Site Preparation	Other Material Handling Equipment	1	3.70	167	0.40
Site Preparation	Other Material Handling Equipment	1	1.80	167	0.40
Site Preparation	Skid Steer Loaders	1	1.40	64	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	6.40	97	0.37

Pole Delivery and Install	Aerial Lifts	1	1.00	62	0.31
Pole Delivery and Install	Air Compressors	1	2.50	78	0.48
Pole Delivery and Install	Bore/Drill Rigs	1	0.50	205	0.50
Pole Delivery and Install	Off-Highway Trucks	1	0.40	400	0.38
Pole Delivery and Install	Off-Highway Trucks	1	0.70	400	0.38
Pole Delivery and Install	Other Material Handling Equipment	1	1.40	167	0.40
Pole Delivery and Install	Other Material Handling Equipment	1	0.90	167	0.40
Pole Delivery and Install	Other Material Handling Equipment	1	1.50	167	0.40
Pole Delivery and Install	Skid Steer Loaders	1	1.50	64	0.37
Pole Delivery and Install	Skid Steer Loaders	1	2.40	64	0.37
Pole Delivery and Install	Tractors/Loaders/Backhoes	1	3.80	97	0.37
Conductor Install	Cranes	3	1.00	226	0.29
Conductor Install	Off-Highway Trucks	5	6.10	400	0.38
Conductor Install	Other Material Handling Equipment	3	7.00	167	0.40
Circuit Breaker Installation	Aerial Lifts	1	8.00	62	0.31
Circuit Breaker Installation	Cranes	1	8.00	226	0.29
Circuit Breaker Installation	Excavators	1	8.00	162	0.38
Circuit Breaker Installation	Forklifts	1	8.00	89	0.20
Circuit Breaker Installation	Off-Highway Trucks	1	8.00	400	0.38
Circuit Breaker Installation	Skid Steer Loaders	1	8.00	64	0.37
TSP Install	Cranes	1	4.30	226	0.29
TSP Install	Off-Highway Trucks	1	3.60	400	0.38
TSP Install	Off-Highway Trucks	1	4.30	400	0.38
TSP Install	Off-Highway Trucks	1	4.30	400	0.38
TSP Install	Off-Highway Trucks	1	0.90	400	0.38
TSP Install	Other Material Handling Equipment	1	6.00	167	0.40
TSP Install	Other Material Handling Equipment	1	6.00	167	0.40
TSP Install	Skid Steer Loaders	1	3.60	64	0.37

Restoration and Cleanup	Graders	1	4.00	174	0.41
Restoration and Cleanup	Off-Highway Trucks	1	2.00	400	0.38
Restoration and Cleanup	Other Material Handling Equipment	1	6.00	167	0.40
Restoration and Cleanup	Tractors/Loaders/Backhoes	1	1.50	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
Material and Equipment Hauling	2	3.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Survey	1	3.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	6.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pole Delivery and Install	11	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Conductor Install	11	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Circuit Breaker Installation	6	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
TSP Install	8	7.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Restoration and Cleanup	4	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Material and Equipment Hauling - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	0.0206	0.2323	0.1107	3.1000e-004		8.6200e-003	8.6200e-003		7.9300e-003	7.9300e-003						
<b>Total</b>	<b>0.0206</b>	<b>0.2323</b>	<b>0.1107</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>8.6200e-003</b>	<b>8.6200e-003</b>	<b>0.0000</b>	<b>7.9300e-003</b>	<b>7.9300e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	3.9000e-004	5.5000e-004	5.2900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.5000e-004	2.5000e-004	1.0000e-005	2.6000e-004						
<b>Total</b>	<b>3.9000e-004</b>	<b>5.5000e-004</b>	<b>5.2900e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>						

### 3.2 Material and Equipment Hauling - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	0.0206	0.2323	0.1107	3.1000e-004		8.6200e-003	8.6200e-003		7.9300e-003	7.9300e-003						
<b>Total</b>	<b>0.0206</b>	<b>0.2323</b>	<b>0.1107</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>8.6200e-003</b>	<b>8.6200e-003</b>	<b>0.0000</b>	<b>7.9300e-003</b>	<b>7.9300e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	3.9000e-004	5.5000e-004	5.2900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.5000e-004	2.5000e-004	1.0000e-005	2.6000e-004						
<b>Total</b>	<b>3.9000e-004</b>	<b>5.5000e-004</b>	<b>5.2900e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>						



### 3.3 Survey - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	5.0300e-003	0.0529	0.0395	6.0000e-005		2.8000e-003	2.8000e-003		2.5800e-003	2.5800e-003						
<b>Total</b>	<b>5.0300e-003</b>	<b>0.0529</b>	<b>0.0395</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.8000e-003</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>2.5800e-003</b>	<b>2.5800e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.4000e-004	1.9000e-004	1.8900e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005						
<b>Total</b>	<b>1.4000e-004</b>	<b>1.9000e-004</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>						

### 3.3 Survey - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	5.0300e-003	0.0529	0.0395	6.0000e-005		2.8000e-003	2.8000e-003		2.5800e-003	2.5800e-003						
<b>Total</b>	<b>5.0300e-003</b>	<b>0.0529</b>	<b>0.0395</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.8000e-003</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>2.5800e-003</b>	<b>2.5800e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.4000e-004	1.9000e-004	1.8900e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005						
<b>Total</b>	<b>1.4000e-004</b>	<b>1.9000e-004</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>						

**3.4 Site Preparation - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7600e-003	0.0000	2.7600e-003	3.0000e-004	0.0000	3.0000e-004						
Off-Road	0.0199	0.2192	0.1305	2.5000e-004		0.0109	0.0109		0.0100	0.0100						
<b>Total</b>	<b>0.0199</b>	<b>0.2192</b>	<b>0.1305</b>	<b>2.5000e-004</b>	<b>2.7600e-003</b>	<b>0.0109</b>	<b>0.0136</b>	<b>3.0000e-004</b>	<b>0.0100</b>	<b>0.0103</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	3.9000e-004	5.5000e-004	5.2900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.5000e-004	2.5000e-004	1.0000e-005	2.6000e-004						
<b>Total</b>	<b>3.9000e-004</b>	<b>5.5000e-004</b>	<b>5.2900e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>						

### 3.4 Site Preparation - 2017

#### 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					1.2400e-003	0.0000	1.2400e-003	1.3000e-004	0.0000	1.3000e-004						
Off-Road	0.0199	0.2192	0.1305	2.5000e-004		0.0109	0.0109		0.0100	0.0100						
<b>Total</b>	<b>0.0199</b>	<b>0.2192</b>	<b>0.1305</b>	<b>2.5000e-004</b>	<b>1.2400e-003</b>	<b>0.0109</b>	<b>0.0121</b>	<b>1.3000e-004</b>	<b>0.0100</b>	<b>0.0101</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	3.9000e-004	5.5000e-004	5.2900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.5000e-004	2.5000e-004	1.0000e-005	2.6000e-004						
<b>Total</b>	<b>3.9000e-004</b>	<b>5.5000e-004</b>	<b>5.2900e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>						

### 3.5 Pole Delivery and Install - 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	0.0381	0.3819	0.2819	4.7000e-004		0.0216	0.0216		0.0202	0.0202						
<b>Total</b>	<b>0.0381</b>	<b>0.3819</b>	<b>0.2819</b>	<b>4.7000e-004</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0202</b>	<b>0.0202</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	9.7000e-004	1.3600e-003	0.0132	3.0000e-005	2.3600e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004						
<b>Total</b>	<b>9.7000e-004</b>	<b>1.3600e-003</b>	<b>0.0132</b>	<b>3.0000e-005</b>	<b>2.3600e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>2.0000e-005</b>	<b>6.5000e-004</b>						

### 3.5 Pole Delivery and Install - 2017

#### 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	0.0381	0.3819	0.2819	4.7000e-004		0.0216	0.0216		0.0202	0.0202						
<b>Total</b>	<b>0.0381</b>	<b>0.3819</b>	<b>0.2819</b>	<b>4.7000e-004</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0202</b>	<b>0.0202</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	9.7000e-004	1.3600e-003	0.0132	3.0000e-005	2.3600e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004						
<b>Total</b>	<b>9.7000e-004</b>	<b>1.3600e-003</b>	<b>0.0132</b>	<b>3.0000e-005</b>	<b>2.3600e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>2.0000e-005</b>	<b>6.5000e-004</b>						

### 3.5 Pole Delivery and Install - 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	4.2400e-003	0.0420	0.0363	6.0000e-005		2.2900e-003	2.2900e-003		2.1400e-003	2.1400e-003							
<b>Total</b>	<b>4.2400e-003</b>	<b>0.0420</b>	<b>0.0363</b>	<b>6.0000e-005</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>		<b>2.1400e-003</b>	<b>2.1400e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.1000e-004	1.6000e-004	1.5600e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005						
<b>Total</b>	<b>1.1000e-004</b>	<b>1.6000e-004</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>						

### 3.5 Pole Delivery and Install - 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	4.2400e-003	0.0420	0.0363	6.0000e-005		2.2900e-003	2.2900e-003		2.1400e-003	2.1400e-003						
<b>Total</b>	<b>4.2400e-003</b>	<b>0.0420</b>	<b>0.0363</b>	<b>6.0000e-005</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>		<b>2.1400e-003</b>	<b>2.1400e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.1000e-004	1.6000e-004	1.5600e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005						
<b>Total</b>	<b>1.1000e-004</b>	<b>1.6000e-004</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>						



**3.6 Conductor Install - 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	0.2224	2.4688	1.3314	3.0600e-003		0.1027	0.1027		0.0944	0.0944						
<b>Total</b>	<b>0.2224</b>	<b>2.4688</b>	<b>1.3314</b>	<b>3.0600e-003</b>		<b>0.1027</b>	<b>0.1027</b>		<b>0.0944</b>	<b>0.0944</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.3500e-003	1.8900e-003	0.0183	4.0000e-005	3.2800e-003	3.0000e-005	3.3100e-003	8.7000e-004	3.0000e-005	9.0000e-004						
<b>Total</b>	<b>1.3500e-003</b>	<b>1.8900e-003</b>	<b>0.0183</b>	<b>4.0000e-005</b>	<b>3.2800e-003</b>	<b>3.0000e-005</b>	<b>3.3100e-003</b>	<b>8.7000e-004</b>	<b>3.0000e-005</b>	<b>9.0000e-004</b>						

**3.6 Conductor Install - 2017**

**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	0.2224	2.4688	1.3314	3.0600e-003		0.1027	0.1027		0.0944	0.0944						
<b>Total</b>	<b>0.2224</b>	<b>2.4688</b>	<b>1.3314</b>	<b>3.0600e-003</b>		<b>0.1027</b>	<b>0.1027</b>		<b>0.0944</b>	<b>0.0944</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.3500e-003	1.8900e-003	0.0183	4.0000e-005	3.2800e-003	3.0000e-005	3.3100e-003	8.7000e-004	3.0000e-005	9.0000e-004						
<b>Total</b>	<b>1.3500e-003</b>	<b>1.8900e-003</b>	<b>0.0183</b>	<b>4.0000e-005</b>	<b>3.2800e-003</b>	<b>3.0000e-005</b>	<b>3.3100e-003</b>	<b>8.7000e-004</b>	<b>3.0000e-005</b>	<b>9.0000e-004</b>						

**3.6 Conductor Install - 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	0.0291	0.3107	0.1877	4.7000e-004		0.0126	0.0126		0.0116	0.0116						
<b>Total</b>	<b>0.0291</b>	<b>0.3107</b>	<b>0.1877</b>	<b>4.7000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0116</b>	<b>0.0116</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.8000e-004	2.6000e-004	2.4900e-003	1.0000e-005	5.0000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004						
<b>Total</b>	<b>1.8000e-004</b>	<b>2.6000e-004</b>	<b>2.4900e-003</b>	<b>1.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>						

**3.6 Conductor Install - 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	0.0291	0.3107	0.1877	4.7000e-004		0.0126	0.0126		0.0116	0.0116						
<b>Total</b>	<b>0.0291</b>	<b>0.3107</b>	<b>0.1877</b>	<b>4.7000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0116</b>	<b>0.0116</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.8000e-004	2.6000e-004	2.4900e-003	1.0000e-005	5.0000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004						
<b>Total</b>	<b>1.8000e-004</b>	<b>2.6000e-004</b>	<b>2.4900e-003</b>	<b>1.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>						

### 3.7 Circuit Breaker Installation - 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	0.0562	0.6386	0.3644	7.3000e-004		0.0290	0.0290		0.0266	0.0266						
<b>Total</b>	<b>0.0562</b>	<b>0.6386</b>	<b>0.3644</b>	<b>7.3000e-004</b>		<b>0.0290</b>	<b>0.0290</b>		<b>0.0266</b>	<b>0.0266</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	3.7000e-004	5.2000e-004	5.0300e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004						
<b>Total</b>	<b>3.7000e-004</b>	<b>5.2000e-004</b>	<b>5.0300e-003</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>1.0000e-005</b>	<b>9.1000e-004</b>	<b>2.4000e-004</b>	<b>1.0000e-005</b>	<b>2.5000e-004</b>						

### 3.7 Circuit Breaker Installation - 2017

#### 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	0.0562	0.6386	0.3644	7.3000e-004		0.0290	0.0290		0.0266	0.0266							
<b>Total</b>	<b>0.0562</b>	<b>0.6386</b>	<b>0.3644</b>	<b>7.3000e-004</b>		<b>0.0290</b>	<b>0.0290</b>		<b>0.0266</b>	<b>0.0266</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							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	3.7000e-004	5.2000e-004	5.0300e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004							
<b>Total</b>	<b>3.7000e-004</b>	<b>5.2000e-004</b>	<b>5.0300e-003</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>1.0000e-005</b>	<b>9.1000e-004</b>	<b>2.4000e-004</b>	<b>1.0000e-005</b>	<b>2.5000e-004</b>							

### 3.7 Circuit Breaker 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						
Off-Road	9.6700e-003	0.1080	0.0683	1.5000e-004		4.7400e-003	4.7400e-003		4.3600e-003	4.3600e-003							
<b>Total</b>	<b>9.6700e-003</b>	<b>0.1080</b>	<b>0.0683</b>	<b>1.5000e-004</b>		<b>4.7400e-003</b>	<b>4.7400e-003</b>		<b>4.3600e-003</b>	<b>4.3600e-003</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							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	7.0000e-005	9.0000e-005	8.9000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005							
<b>Total</b>	<b>7.0000e-005</b>	<b>9.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>							

### 3.7 Circuit Breaker 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						
Off-Road	9.6700e-003	0.1080	0.0683	1.5000e-004		4.7400e-003	4.7400e-003		4.3600e-003	4.3600e-003							
<b>Total</b>	<b>9.6700e-003</b>	<b>0.1080</b>	<b>0.0683</b>	<b>1.5000e-004</b>		<b>4.7400e-003</b>	<b>4.7400e-003</b>		<b>4.3600e-003</b>	<b>4.3600e-003</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							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	7.0000e-005	9.0000e-005	8.9000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005							
<b>Total</b>	<b>7.0000e-005</b>	<b>9.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>							



**3.8 TSP Install - 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	0.0361	0.4030	0.2198	4.8000e-004		0.0173	0.0173		0.0159	0.0159						
<b>Total</b>	<b>0.0361</b>	<b>0.4030</b>	<b>0.2198</b>	<b>4.8000e-004</b>		<b>0.0173</b>	<b>0.0173</b>		<b>0.0159</b>	<b>0.0159</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	3.6000e-004	5.1000e-004	4.9300e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004						
<b>Total</b>	<b>3.6000e-004</b>	<b>5.1000e-004</b>	<b>4.9300e-003</b>	<b>1.0000e-005</b>	<b>8.8000e-004</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>						

### 3.8 TSP Install - 2017

#### 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	0.0361	0.4030	0.2198	4.8000e-004		0.0173	0.0173		0.0159	0.0159							
<b>Total</b>	<b>0.0361</b>	<b>0.4030</b>	<b>0.2198</b>	<b>4.8000e-004</b>		<b>0.0173</b>	<b>0.0173</b>		<b>0.0159</b>	<b>0.0159</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							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	3.6000e-004	5.1000e-004	4.9300e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004							
<b>Total</b>	<b>3.6000e-004</b>	<b>5.1000e-004</b>	<b>4.9300e-003</b>	<b>1.0000e-005</b>	<b>8.8000e-004</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>							

### 3.8 TSP Install - 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	0.0152	0.1650	0.1013	2.4000e-004		6.8700e-003	6.8700e-003		6.3200e-003	6.3200e-003						
<b>Total</b>	<b>0.0152</b>	<b>0.1650</b>	<b>0.1013</b>	<b>2.4000e-004</b>		<b>6.8700e-003</b>	<b>6.8700e-003</b>		<b>6.3200e-003</b>	<b>6.3200e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.6000e-004	2.3000e-004	2.1800e-003	1.0000e-005	4.4000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004						
<b>Total</b>	<b>1.6000e-004</b>	<b>2.3000e-004</b>	<b>2.1800e-003</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>						

### 3.8 TSP Install - 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	0.0152	0.1650	0.1013	2.4000e-004		6.8700e-003	6.8700e-003		6.3200e-003	6.3200e-003						
<b>Total</b>	<b>0.0152</b>	<b>0.1650</b>	<b>0.1013</b>	<b>2.4000e-004</b>		<b>6.8700e-003</b>	<b>6.8700e-003</b>		<b>6.3200e-003</b>	<b>6.3200e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.6000e-004	2.3000e-004	2.1800e-003	1.0000e-005	4.4000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004						
<b>Total</b>	<b>1.6000e-004</b>	<b>2.3000e-004</b>	<b>2.1800e-003</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>						

### 3.9 Restoration and Cleanup - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Off-Road	0.0189	0.1933	0.1332	2.3000e-004		9.9300e-003	9.9300e-003		9.1400e-003	9.1400e-003							
<b>Total</b>	<b>0.0189</b>	<b>0.1933</b>	<b>0.1332</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>9.9300e-003</b>	<b>9.9300e-003</b>	<b>0.0000</b>	<b>9.1400e-003</b>	<b>9.1400e-003</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							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	1.3000e-004	1.9000e-004	1.7800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004							
<b>Total</b>	<b>1.3000e-004</b>	<b>1.9000e-004</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>							

### 3.9 Restoration and Cleanup - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	0.0189	0.1933	0.1332	2.3000e-004		9.9300e-003	9.9300e-003		9.1400e-003	9.1400e-003						
<b>Total</b>	<b>0.0189</b>	<b>0.1933</b>	<b>0.1332</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>9.9300e-003</b>	<b>9.9300e-003</b>	<b>0.0000</b>	<b>9.1400e-003</b>	<b>9.1400e-003</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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.3000e-004	1.9000e-004	1.7800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004						
<b>Total</b>	<b>1.3000e-004</b>	<b>1.9000e-004</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>						

### 4.0 Operational Detail - Mobile

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### 4.1 Mitigation Measures Mobile

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

### 4.2 Trip Summary Information

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

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.472620	0.077353	0.181041	0.151825	0.061613	0.009117	0.019096	0.010165	0.002614	0.002509	0.008672	0.000523	0.002851

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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



### 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							
<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>							

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0				
<b>Total</b>					

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0				
<b>Total</b>					

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

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

### 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	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>						

#### 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	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>						

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				
Unmitigated				

### 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				
<b>Total</b>					

## 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				
<b>Total</b>					

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				
Unmitigated				

## 8.2 Waste by Land Use

### Unmitigated

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

### Mitigated

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

## 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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