

## Appendix E

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### Air Quality and Greenhouse Gas Emissions Calculations

Note: This appendix presents construction emissions calculations. Refer to the PEA for operational emissions.



## Suncrest Reactive Power Support Project San Diego County, Annual

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	90.00	1000sqft	12.21	90,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2018
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Lot acreage set to 12.59

Construction Phase - Construction Schedule updated to reflect current best case start date

Off-road Equipment - Equipment Roster

Off-road Equipment - Splice truck

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Test truck

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Trips and VMT - 3,600 cubic yards of spoils will need to be hauled offsite = 450 trips \* 8 cubic yards/trip

Grading -

Vehicle Trips - Assumes one (1) trip per day

Water And Wastewater - Unmanned facility, No planned indoor water use

Solid Waste - Unmanned facility, No solid waste generation

Land Use Change -

Construction Off-road Equipment Mitigation - All Engines are assumed to comply with Tier 3 diesel engine standards

Area Mitigation - Low VOC paint



## 2.3 Vegetation

### Vegetation

	CO2e
Category	MT
Vegetation Land Change	-8.6200
<b>Total</b>	<b>-8.6200</b>

## 3.0 Construction Detail

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### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Field Survey	Site Preparation	3/1/2017	3/15/2017	7	15	Surveying includes setting up survey equipment, taking measurements, and installing stakes
2	SDG&E Site preparation	Site Preparation	4/1/2017	5/31/2017	7	61	SDG&E Site preparation phase
3	SVC Site Grading	Grading	4/1/2017	4/30/2017	7	30	Site earthwork and grading.
4	Trenching	Trenching	4/1/2017	7/10/2017	7	101	Trench will be approximately 30" wide by 60" deep.
5	Set SVC Substation Foundations	Building Construction	5/1/2017	6/20/2017	7	51	Auguring holes, removing soil, and foundation forming.
6	Material delivery	Building Construction	5/7/2017	8/15/2017	7	101	Material haul, transporting material to the site.
7	Substation construction	Building Construction	5/31/2017	10/8/2017	7	131	Install equipment, structural steel and bus work.
8	Structure Erection	Building Construction	6/1/2017	8/14/2017	7	75	SDG&E Suncrest Substation Structure and Equipment erection
9	Install Vaults	Building Construction	7/11/2017	8/9/2017	7	30	Excavate hole for vault, install vault sections, backfill with concrete
10	Install Transmission line foundations	Building Construction	7/31/2017	8/31/2017	7	32	Foundation installation includes auguring holes, remove soil and foundation formation.
11	Install duct package	Building Construction	8/10/2017	9/28/2017	7	50	Install approximately 100 feet of duct/day
12	Wire Stringing	Building Construction	8/15/2017	9/4/2017	5	15	Wire Stringing into SDG&E Suncrest Substation
13	Transformer & SVC Delivery	Building Construction	8/16/2017	8/30/2017	7	15	Install transformer and SVC
14	Pull cable	Building Construction	9/29/2017	10/19/2017	7	21	6 pulls at 850feet each
15	Install cable splices	Building Construction	10/20/2017	11/20/2017	7	32	Install cable splice. Assume 16 hours/day
16	Right of way restoration and cleanup	Site Preparation	11/13/2017	1/13/2018	7	62	Restore back to natural state, removing culverts, restoring original grade, seeding area with native plants
17	Test cable splices	Building Construction	11/21/2017	11/22/2017	7	2	Test cable splices per accepted standards and techniques.

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Field Survey	Off-Highway Trucks	0	10.00	400	0.38
Field Survey	Rubber Tired Dozers	0	8.00	255	0.40
Field Survey	Tractors/Loaders/Backhoes	0	8.00	97	0.37
SDG&E Site preparation	Bore/Drill Rigs	1	5.00	205	0.50
SDG&E Site preparation	Cranes	1	2.50	226	0.29
SDG&E Site preparation	Excavators	1	7.00	162	0.38
SDG&E Site preparation	Off-Highway Trucks	2	10.00	400	0.38
SDG&E Site preparation	Off-Highway Trucks	2	3.00	400	0.38
SDG&E Site preparation	Rubber Tired Dozers	0	8.00	255	0.40
SDG&E Site preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
SVC Site Grading	Dumpers/Tenders	1	9.00	16	0.38
SVC Site Grading	Dumpers/Tenders	10	5.00	16	0.38
SVC Site Grading	Excavators	0	8.00	162	0.38
SVC Site Grading	Graders	1	9.00	174	0.41
SVC Site Grading	Off-Highway Trucks	1	10.00	400	0.38
SVC Site Grading	Rollers	2	5.00	80	0.38
SVC Site Grading	Rubber Tired Dozers	1	9.00	255	0.40
SVC Site Grading	Rubber Tired Loaders	1	9.00	199	0.36
SVC Site Grading	Scrapers	0	8.00	361	0.48
SVC Site Grading	Tractors/Loaders/Backhoes	1	9.00	97	0.37
Trenching	Dumpers/Tenders	1	10.00	16	0.38
Trenching	Off-Highway Trucks	1	10.00	400	0.38
Trenching	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Trenching	Trenchers	1	10.00	80	0.50



Set SVC Substation Foundations	Bore/Drill Rigs	1	5.00	205	0.50
Set SVC Substation Foundations	Cranes	1	3.00	226	0.29
Set SVC Substation Foundations	Excavators	1	9.00	162	0.38
Set SVC Substation Foundations	Forklifts	0	8.00	89	0.20
Set SVC Substation Foundations	Generator Sets	1	8.00	84	0.74
Set SVC Substation Foundations	Off-Highway Trucks	1	10.00	400	0.38
Set SVC Substation Foundations	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Set SVC Substation Foundations	Welders	0	8.00	46	0.45
Material delivery	Cranes	2	5.00	226	0.29
Material delivery	Forklifts	1	5.00	89	0.20
Material delivery	Generator Sets	0	8.00	84	0.74
Material delivery	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Material delivery	Welders	0	8.00	46	0.45
Substation construction	Cranes	1	7.50	226	0.29
Substation construction	Forklifts	0	8.00	89	0.20
Substation construction	Generator Sets	1	8.00	84	0.74
Substation construction	Off-Highway Trucks	2	10.00	400	0.38
Substation construction	Off-Highway Trucks	2	5.00	400	0.38
Substation construction	Tractors/Loaders/Backhoes	1	2.50	97	0.37
Substation construction	Welders	0	8.00	46	0.45
Structure Erection	Cranes	2	5.00	226	0.29
Structure Erection	Forklifts	0	8.00	89	0.20
Structure Erection	Generator Sets	1	8.00	84	0.74
Structure Erection	Off-Highway Trucks	5	10.00	400	0.38
Structure Erection	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Structure Erection	Welders	0	8.00	46	0.45
Install Vaults	Cranes	0	7.00	226	0.29
Install Vaults	Forklifts	0	8.00	89	0.20

Install Vaults	Generator Sets	1	8.00	84	0.74
Install Vaults	Off-Highway Trucks	3	10.00	400	0.38
Install Vaults	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Install Vaults	Welders	0	8.00	46	0.45
Install Transmission line foundations	Bore/Drill Rigs	1	5.00	205	0.50
Install Transmission line foundations	Cranes	1	2.50	226	0.29
Install Transmission line foundations	Excavators	1	7.00	162	0.38
Install Transmission line foundations	Forklifts	0	8.00	89	0.20
Install Transmission line foundations	Generator Sets	1	8.00	84	0.74
Install Transmission line foundations	Off-Highway Trucks	2	10.00	400	0.38
Install Transmission line foundations	Off-Highway Trucks	2	3.00	400	0.38
Install Transmission line foundations	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install Transmission line foundations	Welders	0	8.00	46	0.45
Install duct package	Cranes	0	7.00	226	0.29
Install duct package	Forklifts	0	8.00	89	0.20
Install duct package	Generator Sets	1	8.00	84	0.74
Install duct package	Off-Highway Trucks	2	7.50	400	0.38
Install duct package	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install duct package	Welders	0	8.00	46	0.45
Wire Stringing	Cranes	1	1.00	226	0.29
Wire Stringing	Forklifts	0	8.00	89	0.20
Wire Stringing	Generator Sets	0	8.00	84	0.74
Wire Stringing	Off-Highway Trucks	3	10.00	400	0.38
Wire Stringing	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Wire Stringing	Welders	0	8.00	46	0.45
Transformer & SVC Delivery	Cranes	1	2.50	226	0.29
Transformer & SVC Delivery	Forklifts	0	8.00	89	0.20
Transformer & SVC Delivery	Generator Sets	0	8.00	84	0.74

Transformer & SVC Delivery	Tractors/Loaders/Backhoes	1	2.50	97	0.37
Transformer & SVC Delivery	Welders	0	8.00	46	0.45
Pull cable	Cranes	0	7.00	226	0.29
Pull cable	Forklifts	0	8.00	89	0.20
Pull cable	Generator Sets	0	8.00	84	0.74
Pull cable	Off-Highway Trucks	1	10.00	400	0.38
Pull cable	Other General Industrial Equipment	3	10.00	87	0.34
Pull cable	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pull cable	Welders	0	8.00	46	0.45
Install cable splices	Cranes	0	7.00	226	0.29
Install cable splices	Forklifts	0	8.00	89	0.20
Install cable splices	Generator Sets	0	8.00	84	0.74
Install cable splices	Other Material Handling Equipment	1	16.00	167	0.40
Install cable splices	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install cable splices	Welders	0	8.00	46	0.45
Right of way restoration and cleanup	Excavators	1	5.00	162	0.38
Right of way restoration and cleanup	Graders	1	5.00	174	0.41
Right of way restoration and cleanup	Off-Highway Trucks	1	10.00	400	0.38
Right of way restoration and cleanup	Off-Highway Trucks	1	10.00	400	0.38
Right of way restoration and cleanup	Rubber Tired Dozers	0	8.00	255	0.40
Right of way restoration and cleanup	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Test cable splices	Cranes	0	7.00	226	0.29
Test cable splices	Forklifts	0	8.00	89	0.20
Test cable splices	Generator Sets	0	8.00	84	0.74
Test cable splices	Other General Industrial Equipment	1	10.00	87	0.34
Test cable splices	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Test cable splices	Welders	0	8.00	46	0.45

**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
Field Survey	0	3.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
SDG&E Site preparation	7	9.00	5.00	0.00	65.00	91.00	65.00	LD_Mix	HDT_Mix	HHDT
SVC Site Grading	18	18.00	12.00	450.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Set SVC Substation Foundations	5	6.00	2.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Material delivery	4	3.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Substation construction	7	8.00	6.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Structure Erection	9	10.00	9.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install Vaults	5	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install Transmission line foundations	8	10.00	5.00	0.00	65.00	143.00	65.00	LD_Mix	HDT_Mix	HHDT
Install duct package	3	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Wire Stringing	5	23.00	6.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Transformer & SVC Delivery	2	5.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Pull cable	4	10.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install cable splices	1	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Right of way restoration and cleanup	4	6.00	3.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Test cable splices	1	3.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

### 3.2 Field 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	4.6500e-003	2.2000e-003	1.0000e-005	4.3000e-004	8.0000e-005	5.1000e-004	1.2000e-004	7.0000e-005	2.0000e-004	0.0000	1.3253	1.3253	1.0000e-005	0.0000	1.3255
Worker	1.7000e-004	5.0000e-004	4.4500e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.9500	0.9500	5.0000e-005	0.0000	0.9510
<b>Total</b>	<b>4.5000e-004</b>	<b>5.1500e-003</b>	<b>6.6500e-003</b>	<b>2.0000e-005</b>	<b>1.5100e-003</b>	<b>9.0000e-005</b>	<b>1.6000e-003</b>	<b>4.1000e-004</b>	<b>8.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>2.2753</b>	<b>2.2753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.2765</b>

### 3.2 Field 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	4.6500e-003	2.2000e-003	1.0000e-005	4.3000e-004	8.0000e-005	5.1000e-004	1.2000e-004	7.0000e-005	2.0000e-004	0.0000	1.3253	1.3253	1.0000e-005	0.0000	1.3255
Worker	1.7000e-004	5.0000e-004	4.4500e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.9500	0.9500	5.0000e-005	0.0000	0.9510
<b>Total</b>	<b>4.5000e-004</b>	<b>5.1500e-003</b>	<b>6.6500e-003</b>	<b>2.0000e-005</b>	<b>1.5100e-003</b>	<b>9.0000e-005</b>	<b>1.6000e-003</b>	<b>4.1000e-004</b>	<b>8.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>2.2753</b>	<b>2.2753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.2765</b>

### 3.3 SDG&E 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1083	1.2423	0.6200	1.6700e-003		0.0472	0.0472		0.0435	0.0435	0.0000	154.4257	154.4257	0.0473	0.0000	155.4194
<b>Total</b>	<b>0.1083</b>	<b>1.2423</b>	<b>0.6200</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>0.0472</b>	<b>0.0472</b>	<b>0.0000</b>	<b>0.0435</b>	<b>0.0435</b>	<b>0.0000</b>	<b>154.4257</b>	<b>154.4257</b>	<b>0.0473</b>	<b>0.0000</b>	<b>155.4194</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-003	0.1312	0.0559	4.2000e-004	0.0123	2.2800e-003	0.0146	3.5200e-003	2.0900e-003	5.6200e-003	0.0000	37.6325	37.6325	2.5000e-004	0.0000	37.6377
Worker	2.0700e-003	6.1200e-003	0.0543	1.6000e-004	0.0132	9.0000e-005	0.0133	3.5200e-003	8.0000e-005	3.6000e-003	0.0000	11.5904	11.5904	5.6000e-004	0.0000	11.6022
<b>Total</b>	<b>9.5700e-003</b>	<b>0.1374</b>	<b>0.1102</b>	<b>5.8000e-004</b>	<b>0.0256</b>	<b>2.3700e-003</b>	<b>0.0279</b>	<b>7.0400e-003</b>	<b>2.1700e-003</b>	<b>9.2200e-003</b>	<b>0.0000</b>	<b>49.2229</b>	<b>49.2229</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>49.2399</b>

### 3.3 SDG&E 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0408	0.7892	0.9164	1.6700e-003		0.0306	0.0306		0.0306	0.0306	0.0000	154.4256	154.4256	0.0473	0.0000	155.4192
<b>Total</b>	<b>0.0408</b>	<b>0.7892</b>	<b>0.9164</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>0.0306</b>	<b>0.0306</b>	<b>0.0000</b>	<b>0.0306</b>	<b>0.0306</b>	<b>0.0000</b>	<b>154.4256</b>	<b>154.4256</b>	<b>0.0473</b>	<b>0.0000</b>	<b>155.4192</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-003	0.1312	0.0559	4.2000e-004	0.0123	2.2800e-003	0.0146	3.5200e-003	2.0900e-003	5.6200e-003	0.0000	37.6325	37.6325	2.5000e-004	0.0000	37.6377
Worker	2.0700e-003	6.1200e-003	0.0543	1.6000e-004	0.0132	9.0000e-005	0.0133	3.5200e-003	8.0000e-005	3.6000e-003	0.0000	11.5904	11.5904	5.6000e-004	0.0000	11.6022
<b>Total</b>	<b>9.5700e-003</b>	<b>0.1374</b>	<b>0.1102</b>	<b>5.8000e-004</b>	<b>0.0256</b>	<b>2.3700e-003</b>	<b>0.0279</b>	<b>7.0400e-003</b>	<b>2.1700e-003</b>	<b>9.2200e-003</b>	<b>0.0000</b>	<b>49.2229</b>	<b>49.2229</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>49.2399</b>



### 3.4 SVC Site Grading - 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					0.1108	0.0000	0.1108	0.0569	0.0000	0.0569	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0798	0.8286	0.4729	7.9000e-004		0.0396	0.0396		0.0366	0.0366	0.0000	71.7000	71.7000	0.0208	0.0000	72.1360
<b>Total</b>	<b>0.0798</b>	<b>0.8286</b>	<b>0.4729</b>	<b>7.9000e-004</b>	<b>0.1108</b>	<b>0.0396</b>	<b>0.1504</b>	<b>0.0569</b>	<b>0.0366</b>	<b>0.0935</b>	<b>0.0000</b>	<b>71.7000</b>	<b>71.7000</b>	<b>0.0208</b>	<b>0.0000</b>	<b>72.1360</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	9.6600e-003	0.1784	0.0834	5.4000e-004	0.0125	2.4400e-003	0.0149	3.4200e-003	2.2400e-003	5.6600e-003	0.0000	48.3099	48.3099	3.2000e-004	0.0000	48.3166
Vendor	6.6800e-003	0.1117	0.0527	3.5000e-004	0.0104	1.9200e-003	0.0123	2.9700e-003	1.7700e-003	4.7400e-003	0.0000	31.8067	31.8067	2.1000e-004	0.0000	31.8111
Worker	2.0300e-003	6.0200e-003	0.0534	1.6000e-004	0.0130	9.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5400e-003	0.0000	11.4004	11.4004	5.5000e-004	0.0000	11.4120
<b>Total</b>	<b>0.0184</b>	<b>0.2961</b>	<b>0.1895</b>	<b>1.0500e-003</b>	<b>0.0359</b>	<b>4.4500e-003</b>	<b>0.0403</b>	<b>9.8500e-003</b>	<b>4.0900e-003</b>	<b>0.0139</b>	<b>0.0000</b>	<b>91.5170</b>	<b>91.5170</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>91.5397</b>

### 3.4 SVC Site Grading - 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					0.0432	0.0000	0.0432	0.0222	0.0000	0.0222	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0173	0.3426	0.4203	7.9000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	71.6999	71.6999	0.0208	0.0000	72.1359
<b>Total</b>	<b>0.0173</b>	<b>0.3426</b>	<b>0.4203</b>	<b>7.9000e-004</b>	<b>0.0432</b>	<b>0.0153</b>	<b>0.0586</b>	<b>0.0222</b>	<b>0.0153</b>	<b>0.0375</b>	<b>0.0000</b>	<b>71.6999</b>	<b>71.6999</b>	<b>0.0208</b>	<b>0.0000</b>	<b>72.1359</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	9.6600e-003	0.1784	0.0834	5.4000e-004	0.0125	2.4400e-003	0.0149	3.4200e-003	2.2400e-003	5.6600e-003	0.0000	48.3099	48.3099	3.2000e-004	0.0000	48.3166
Vendor	6.6800e-003	0.1117	0.0527	3.5000e-004	0.0104	1.9200e-003	0.0123	2.9700e-003	1.7700e-003	4.7400e-003	0.0000	31.8067	31.8067	2.1000e-004	0.0000	31.8111
Worker	2.0300e-003	6.0200e-003	0.0534	1.6000e-004	0.0130	9.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5400e-003	0.0000	11.4004	11.4004	5.5000e-004	0.0000	11.4120
<b>Total</b>	<b>0.0184</b>	<b>0.2961</b>	<b>0.1895</b>	<b>1.0500e-003</b>	<b>0.0359</b>	<b>4.4500e-003</b>	<b>0.0403</b>	<b>9.8500e-003</b>	<b>4.0900e-003</b>	<b>0.0139</b>	<b>0.0000</b>	<b>91.5170</b>	<b>91.5170</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>91.5397</b>

### 3.5 Trenching - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1136	1.1399	0.6394	1.2900e-003		0.0620	0.0620		0.0571	0.0571	0.0000	118.9766	118.9766	0.0358	0.0000	119.7277
<b>Total</b>	<b>0.1136</b>	<b>1.1399</b>	<b>0.6394</b>	<b>1.2900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0571</b>	<b>0.0571</b>	<b>0.0000</b>	<b>118.9766</b>	<b>118.9766</b>	<b>0.0358</b>	<b>0.0000</b>	<b>119.7277</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.9000e-003	5.6300e-003	0.0500	1.5000e-004	0.0122	8.0000e-005	0.0123	3.2300e-003	7.0000e-005	3.3100e-003	0.0000	10.6615	10.6615	5.2000e-004	0.0000	10.6723
<b>Total</b>	<b>1.9000e-003</b>	<b>5.6300e-003</b>	<b>0.0500</b>	<b>1.5000e-004</b>	<b>0.0122</b>	<b>8.0000e-005</b>	<b>0.0123</b>	<b>3.2300e-003</b>	<b>7.0000e-005</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>10.6615</b>	<b>10.6615</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>10.6723</b>

### 3.5 Trenching - 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	0.0305	0.6241	0.7526	1.2900e-003		0.0311	0.0311		0.0311	0.0311	0.0000	118.9765	118.9765	0.0358	0.0000	119.7276
<b>Total</b>	<b>0.0305</b>	<b>0.6241</b>	<b>0.7526</b>	<b>1.2900e-003</b>		<b>0.0311</b>	<b>0.0311</b>		<b>0.0311</b>	<b>0.0311</b>	<b>0.0000</b>	<b>118.9765</b>	<b>118.9765</b>	<b>0.0358</b>	<b>0.0000</b>	<b>119.7276</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.9000e-003	5.6300e-003	0.0500	1.5000e-004	0.0122	8.0000e-005	0.0123	3.2300e-003	7.0000e-005	3.3100e-003	0.0000	10.6615	10.6615	5.2000e-004	0.0000	10.6723
<b>Total</b>	<b>1.9000e-003</b>	<b>5.6300e-003</b>	<b>0.0500</b>	<b>1.5000e-004</b>	<b>0.0122</b>	<b>8.0000e-005</b>	<b>0.0123</b>	<b>3.2300e-003</b>	<b>7.0000e-005</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>10.6615</b>	<b>10.6615</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>10.6723</b>

### 3.6 Set SVC Substation Foundations - 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	0.0639	0.6888	0.4018	9.3000e-004		0.0303	0.0303		0.0285	0.0285	0.0000	85.2935	85.2935	0.0229	0.0000	85.7741
<b>Total</b>	<b>0.0639</b>	<b>0.6888</b>	<b>0.4018</b>	<b>9.3000e-004</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0285</b>	<b>0.0285</b>	<b>0.0000</b>	<b>85.2935</b>	<b>85.2935</b>	<b>0.0229</b>	<b>0.0000</b>	<b>85.7741</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8900e-003	0.0316	0.0149	1.0000e-004	2.9400e-003	5.4000e-004	3.4900e-003	8.4000e-004	5.0000e-004	1.3400e-003	0.0000	9.0119	9.0119	6.0000e-005	0.0000	9.0132
Worker	1.1500e-003	3.4100e-003	0.0303	9.0000e-005	7.3800e-003	5.0000e-005	7.4300e-003	1.9600e-003	5.0000e-005	2.0000e-003	0.0000	6.4602	6.4602	3.1000e-004	0.0000	6.4668
<b>Total</b>	<b>3.0400e-003</b>	<b>0.0351</b>	<b>0.0452</b>	<b>1.9000e-004</b>	<b>0.0103</b>	<b>5.9000e-004</b>	<b>0.0109</b>	<b>2.8000e-003</b>	<b>5.5000e-004</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>15.4721</b>	<b>15.4721</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>15.4799</b>

### 3.6 Set SVC Substation Foundations - 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	0.0221	0.4396	0.5445	9.3000e-004		0.0199	0.0199		0.0199	0.0199	0.0000	85.2934	85.2934	0.0229	0.0000	85.7740
<b>Total</b>	<b>0.0221</b>	<b>0.4396</b>	<b>0.5445</b>	<b>9.3000e-004</b>		<b>0.0199</b>	<b>0.0199</b>		<b>0.0199</b>	<b>0.0199</b>	<b>0.0000</b>	<b>85.2934</b>	<b>85.2934</b>	<b>0.0229</b>	<b>0.0000</b>	<b>85.7740</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8900e-003	0.0316	0.0149	1.0000e-004	2.9400e-003	5.4000e-004	3.4900e-003	8.4000e-004	5.0000e-004	1.3400e-003	0.0000	9.0119	9.0119	6.0000e-005	0.0000	9.0132
Worker	1.1500e-003	3.4100e-003	0.0303	9.0000e-005	7.3800e-003	5.0000e-005	7.4300e-003	1.9600e-003	5.0000e-005	2.0000e-003	0.0000	6.4602	6.4602	3.1000e-004	0.0000	6.4668
<b>Total</b>	<b>3.0400e-003</b>	<b>0.0351</b>	<b>0.0452</b>	<b>1.9000e-004</b>	<b>0.0103</b>	<b>5.9000e-004</b>	<b>0.0109</b>	<b>2.8000e-003</b>	<b>5.5000e-004</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>15.4721</b>	<b>15.4721</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>15.4799</b>

### 3.7 Material delivery - 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	0.0576	0.6393	0.2890	5.0000e-004		0.0336	0.0336		0.0309	0.0309	0.0000	46.6431	46.6431	0.0143	0.0000	46.9432
<b>Total</b>	<b>0.0576</b>	<b>0.6393</b>	<b>0.2890</b>	<b>5.0000e-004</b>		<b>0.0336</b>	<b>0.0336</b>		<b>0.0309</b>	<b>0.0309</b>	<b>0.0000</b>	<b>46.6431</b>	<b>46.6431</b>	<b>0.0143</b>	<b>0.0000</b>	<b>46.9432</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0313	0.0148	1.0000e-004	2.9200e-003	5.4000e-004	3.4500e-003	8.3000e-004	5.0000e-004	1.3300e-003	0.0000	8.9236	8.9236	6.0000e-005	0.0000	8.9248
Worker	1.1400e-003	3.3800e-003	0.0300	9.0000e-005	7.3000e-003	5.0000e-005	7.3500e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	6.3969	6.3969	3.1000e-004	0.0000	6.4034
<b>Total</b>	<b>3.0100e-003</b>	<b>0.0347</b>	<b>0.0448</b>	<b>1.9000e-004</b>	<b>0.0102</b>	<b>5.9000e-004</b>	<b>0.0108</b>	<b>2.7700e-003</b>	<b>5.4000e-004</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>15.3204</b>	<b>15.3204</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>15.3282</b>

### 3.7 Material delivery - 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	0.0123	0.2512	0.3003	5.0000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	46.6430	46.6430	0.0143	0.0000	46.9431
<b>Total</b>	<b>0.0123</b>	<b>0.2512</b>	<b>0.3003</b>	<b>5.0000e-004</b>		<b>0.0122</b>	<b>0.0122</b>		<b>0.0122</b>	<b>0.0122</b>	<b>0.0000</b>	<b>46.6430</b>	<b>46.6430</b>	<b>0.0143</b>	<b>0.0000</b>	<b>46.9431</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0313	0.0148	1.0000e-004	2.9200e-003	5.4000e-004	3.4500e-003	8.3000e-004	5.0000e-004	1.3300e-003	0.0000	8.9236	8.9236	6.0000e-005	0.0000	8.9248
Worker	1.1400e-003	3.3800e-003	0.0300	9.0000e-005	7.3000e-003	5.0000e-005	7.3500e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	6.3969	6.3969	3.1000e-004	0.0000	6.4034
<b>Total</b>	<b>3.0100e-003</b>	<b>0.0347</b>	<b>0.0448</b>	<b>1.9000e-004</b>	<b>0.0102</b>	<b>5.9000e-004</b>	<b>0.0108</b>	<b>2.7700e-003</b>	<b>5.4000e-004</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>15.3204</b>	<b>15.3204</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>15.3282</b>



### 3.8 Substation 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	0.2978	3.2427	1.6163	4.0700e-003		0.1351	0.1351		0.1259	0.1259	0.0000	374.6253	374.6253	0.1064	0.0000	376.8605
<b>Total</b>	<b>0.2978</b>	<b>3.2427</b>	<b>1.6163</b>	<b>4.0700e-003</b>		<b>0.1351</b>	<b>0.1351</b>		<b>0.1259</b>	<b>0.1259</b>	<b>0.0000</b>	<b>374.6253</b>	<b>374.6253</b>	<b>0.1064</b>	<b>0.0000</b>	<b>376.8605</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0146	0.2438	0.1151	7.7000e-004	0.0227	4.2000e-003	0.0269	6.4800e-003	3.8600e-003	0.0103	0.0000	69.4447	69.4447	4.6000e-004	0.0000	69.4543
Worker	3.9500e-003	0.0117	0.1037	3.0000e-004	0.0253	1.7000e-004	0.0254	6.7100e-003	1.5000e-004	6.8600e-003	0.0000	22.1252	22.1252	1.0700e-003	0.0000	22.1477
<b>Total</b>	<b>0.0185</b>	<b>0.2555</b>	<b>0.2188</b>	<b>1.0700e-003</b>	<b>0.0480</b>	<b>4.3700e-003</b>	<b>0.0523</b>	<b>0.0132</b>	<b>4.0100e-003</b>	<b>0.0172</b>	<b>0.0000</b>	<b>91.5698</b>	<b>91.5698</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>91.6020</b>

### 3.8 Substation construction - 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	0.0977	1.9246	2.2102	4.0700e-003		0.0805	0.0805		0.0805	0.0805	0.0000	374.6249	374.6249	0.1064	0.0000	376.8601
<b>Total</b>	<b>0.0977</b>	<b>1.9246</b>	<b>2.2102</b>	<b>4.0700e-003</b>		<b>0.0805</b>	<b>0.0805</b>		<b>0.0805</b>	<b>0.0805</b>	<b>0.0000</b>	<b>374.6249</b>	<b>374.6249</b>	<b>0.1064</b>	<b>0.0000</b>	<b>376.8601</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0146	0.2438	0.1151	7.7000e-004	0.0227	4.2000e-003	0.0269	6.4800e-003	3.8600e-003	0.0103	0.0000	69.4447	69.4447	4.6000e-004	0.0000	69.4543
Worker	3.9500e-003	0.0117	0.1037	3.0000e-004	0.0253	1.7000e-004	0.0254	6.7100e-003	1.5000e-004	6.8600e-003	0.0000	22.1252	22.1252	1.0700e-003	0.0000	22.1477
<b>Total</b>	<b>0.0185</b>	<b>0.2555</b>	<b>0.2188</b>	<b>1.0700e-003</b>	<b>0.0480</b>	<b>4.3700e-003</b>	<b>0.0523</b>	<b>0.0132</b>	<b>4.0100e-003</b>	<b>0.0172</b>	<b>0.0000</b>	<b>91.5698</b>	<b>91.5698</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>91.6020</b>

### 3.9 Structure Erection - 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	0.2591	2.8615	1.3913	3.6200e-003		0.1151	0.1151		0.1068	0.1068	0.0000	334.2677	334.2677	0.0976	0.0000	336.3182
<b>Total</b>	<b>0.2591</b>	<b>2.8615</b>	<b>1.3913</b>	<b>3.6200e-003</b>		<b>0.1151</b>	<b>0.1151</b>		<b>0.1068</b>	<b>0.1068</b>	<b>0.0000</b>	<b>334.2677</b>	<b>334.2677</b>	<b>0.0976</b>	<b>0.0000</b>	<b>336.3182</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.2094	0.0988	6.6000e-004	0.0195	3.6000e-003	0.0231	5.5700e-003	3.3200e-003	8.8800e-003	0.0000	59.6376	59.6376	3.9000e-004	0.0000	59.6458
Worker	2.8300e-003	8.3600e-003	0.0742	2.2000e-004	0.0181	1.2000e-004	0.0182	4.8000e-003	1.1000e-004	4.9100e-003	0.0000	15.8339	15.8339	7.7000e-004	0.0000	15.8500
<b>Total</b>	<b>0.0154</b>	<b>0.2177</b>	<b>0.1730</b>	<b>8.8000e-004</b>	<b>0.0376</b>	<b>3.7200e-003</b>	<b>0.0413</b>	<b>0.0104</b>	<b>3.4300e-003</b>	<b>0.0138</b>	<b>0.0000</b>	<b>75.4715</b>	<b>75.4715</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>75.4958</b>

### 3.9 Structure Erection - 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	0.0876	1.7123	1.9486	3.6200e-003		0.0691	0.0691		0.0691	0.0691	0.0000	334.2673	334.2673	0.0976	0.0000	336.3178
<b>Total</b>	<b>0.0876</b>	<b>1.7123</b>	<b>1.9486</b>	<b>3.6200e-003</b>		<b>0.0691</b>	<b>0.0691</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>334.2673</b>	<b>334.2673</b>	<b>0.0976</b>	<b>0.0000</b>	<b>336.3178</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.2094	0.0988	6.6000e-004	0.0195	3.6000e-003	0.0231	5.5700e-003	3.3200e-003	8.8800e-003	0.0000	59.6376	59.6376	3.9000e-004	0.0000	59.6458
Worker	2.8300e-003	8.3600e-003	0.0742	2.2000e-004	0.0181	1.2000e-004	0.0182	4.8000e-003	1.1000e-004	4.9100e-003	0.0000	15.8339	15.8339	7.7000e-004	0.0000	15.8500
<b>Total</b>	<b>0.0154</b>	<b>0.2177</b>	<b>0.1730</b>	<b>8.8000e-004</b>	<b>0.0376</b>	<b>3.7200e-003</b>	<b>0.0413</b>	<b>0.0104</b>	<b>3.4300e-003</b>	<b>0.0138</b>	<b>0.0000</b>	<b>75.4715</b>	<b>75.4715</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>75.4958</b>

**3.10 Install Vaults - 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	0.0635	0.6772	0.3650	9.0000e-004		0.0293	0.0293		0.0274	0.0274	0.0000	82.4883	82.4883	0.0234	0.0000	82.9789
<b>Total</b>	<b>0.0635</b>	<b>0.6772</b>	<b>0.3650</b>	<b>9.0000e-004</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0274</b>	<b>0.0274</b>	<b>0.0000</b>	<b>82.4883</b>	<b>82.4883</b>	<b>0.0234</b>	<b>0.0000</b>	<b>82.9789</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	5.7000e-004	1.6700e-003	0.0148	4.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	3.1668	3.1668	1.5000e-004	0.0000	3.1700
<b>Total</b>	<b>5.7000e-004</b>	<b>1.6700e-003</b>	<b>0.0148</b>	<b>4.0000e-005</b>	<b>3.6200e-003</b>	<b>2.0000e-005</b>	<b>3.6400e-003</b>	<b>9.6000e-004</b>	<b>2.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>3.1668</b>	<b>3.1668</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.1700</b>

**3.10 Install Vaults - 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	0.0215	0.4274	0.4968	9.0000e-004		0.0187	0.0187		0.0187	0.0187	0.0000	82.4882	82.4882	0.0234	0.0000	82.9788
<b>Total</b>	<b>0.0215</b>	<b>0.4274</b>	<b>0.4968</b>	<b>9.0000e-004</b>		<b>0.0187</b>	<b>0.0187</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>82.4882</b>	<b>82.4882</b>	<b>0.0234</b>	<b>0.0000</b>	<b>82.9788</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	5.7000e-004	1.6700e-003	0.0148	4.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	3.1668	3.1668	1.5000e-004	0.0000	3.1700
<b>Total</b>	<b>5.7000e-004</b>	<b>1.6700e-003</b>	<b>0.0148</b>	<b>4.0000e-005</b>	<b>3.6200e-003</b>	<b>2.0000e-005</b>	<b>3.6400e-003</b>	<b>9.6000e-004</b>	<b>2.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>3.1668</b>	<b>3.1668</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.1700</b>

### 3.11 Install Transmission line foundations - 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	0.0659	0.7231	0.3856	9.8000e-004		0.0296	0.0296		0.0276	0.0276	0.0000	90.0535	90.0535	0.0256	0.0000	90.5902
<b>Total</b>	<b>0.0659</b>	<b>0.7231</b>	<b>0.3856</b>	<b>9.8000e-004</b>		<b>0.0296</b>	<b>0.0296</b>		<b>0.0276</b>	<b>0.0276</b>	<b>0.0000</b>	<b>90.0535</b>	<b>90.0535</b>	<b>0.0256</b>	<b>0.0000</b>	<b>90.5902</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8600e-003	0.1073	0.0411	3.4000e-004	0.0102	1.8700e-003	0.0120	2.9000e-003	1.7200e-003	4.6300e-003	0.0000	30.9523	30.9523	2.0000e-004	0.0000	30.9565
Worker	1.2100e-003	3.5700e-003	0.0317	9.0000e-005	7.7100e-003	5.0000e-005	7.7700e-003	2.0500e-003	5.0000e-005	2.1000e-003	0.0000	6.7558	6.7558	3.3000e-004	0.0000	6.7627
<b>Total</b>	<b>7.0700e-003</b>	<b>0.1108</b>	<b>0.0728</b>	<b>4.3000e-004</b>	<b>0.0179</b>	<b>1.9200e-003</b>	<b>0.0198</b>	<b>4.9500e-003</b>	<b>1.7700e-003</b>	<b>6.7300e-003</b>	<b>0.0000</b>	<b>37.7081</b>	<b>37.7081</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>37.7192</b>

**3.11 Install Transmission line foundations - 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	0.0235	0.4621	0.5456	9.8000e-004		0.0194	0.0194		0.0194	0.0194	0.0000	90.0534	90.0534	0.0256	0.0000	90.5901
<b>Total</b>	<b>0.0235</b>	<b>0.4621</b>	<b>0.5456</b>	<b>9.8000e-004</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>90.0534</b>	<b>90.0534</b>	<b>0.0256</b>	<b>0.0000</b>	<b>90.5901</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8600e-003	0.1073	0.0411	3.4000e-004	0.0102	1.8700e-003	0.0120	2.9000e-003	1.7200e-003	4.6300e-003	0.0000	30.9523	30.9523	2.0000e-004	0.0000	30.9565
Worker	1.2100e-003	3.5700e-003	0.0317	9.0000e-005	7.7100e-003	5.0000e-005	7.7700e-003	2.0500e-003	5.0000e-005	2.1000e-003	0.0000	6.7558	6.7558	3.3000e-004	0.0000	6.7627
<b>Total</b>	<b>7.0700e-003</b>	<b>0.1108</b>	<b>0.0728</b>	<b>4.3000e-004</b>	<b>0.0179</b>	<b>1.9200e-003</b>	<b>0.0198</b>	<b>4.9500e-003</b>	<b>1.7700e-003</b>	<b>6.7300e-003</b>	<b>0.0000</b>	<b>37.7081</b>	<b>37.7081</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>37.7192</b>



**3.12 Install duct package - 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	0.0551	0.5726	0.3140	7.8000e-004		0.0246	0.0246		0.0233	0.0233	0.0000	71.2940	71.2940	0.0187	0.0000	71.6858
<b>Total</b>	<b>0.0551</b>	<b>0.5726</b>	<b>0.3140</b>	<b>7.8000e-004</b>		<b>0.0246</b>	<b>0.0246</b>		<b>0.0233</b>	<b>0.0233</b>	<b>0.0000</b>	<b>71.2940</b>	<b>71.2940</b>	<b>0.0187</b>	<b>0.0000</b>	<b>71.6858</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.4000e-004	2.7900e-003	0.0247	7.0000e-005	6.0300e-003	4.0000e-005	6.0700e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.2780	5.2780	2.6000e-004	0.0000	5.2833
<b>Total</b>	<b>9.4000e-004</b>	<b>2.7900e-003</b>	<b>0.0247</b>	<b>7.0000e-005</b>	<b>6.0300e-003</b>	<b>4.0000e-005</b>	<b>6.0700e-003</b>	<b>1.6000e-003</b>	<b>4.0000e-005</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>5.2780</b>	<b>5.2780</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>5.2833</b>

**3.12 Install duct package - 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	0.0184	0.3666	0.4281	7.8000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	71.2939	71.2939	0.0187	0.0000	71.6857
<b>Total</b>	<b>0.0184</b>	<b>0.3666</b>	<b>0.4281</b>	<b>7.8000e-004</b>		<b>0.0163</b>	<b>0.0163</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>71.2939</b>	<b>71.2939</b>	<b>0.0187</b>	<b>0.0000</b>	<b>71.6857</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	9.4000e-004	2.7900e-003	0.0247	7.0000e-005	6.0300e-003	4.0000e-005	6.0700e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.2780	5.2780	2.6000e-004	0.0000	5.2833
<b>Total</b>	<b>9.4000e-004</b>	<b>2.7900e-003</b>	<b>0.0247</b>	<b>7.0000e-005</b>	<b>6.0300e-003</b>	<b>4.0000e-005</b>	<b>6.0700e-003</b>	<b>1.6000e-003</b>	<b>4.0000e-005</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>5.2780</b>	<b>5.2780</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>5.2833</b>

### 3.13 Wire Stringing - 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	0.0281	0.3123	0.1568	4.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	37.4960	37.4960	0.0115	0.0000	37.7373
<b>Total</b>	<b>0.0281</b>	<b>0.3123</b>	<b>0.1568</b>	<b>4.0000e-004</b>		<b>0.0127</b>	<b>0.0127</b>		<b>0.0117</b>	<b>0.0117</b>	<b>0.0000</b>	<b>37.4960</b>	<b>37.4960</b>	<b>0.0115</b>	<b>0.0000</b>	<b>37.7373</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6700e-003	0.0279	0.0132	9.0000e-005	2.6000e-003	4.8000e-004	3.0800e-003	7.4000e-004	4.4000e-004	1.1800e-003	0.0000	7.9517	7.9517	5.0000e-005	0.0000	7.9528
Worker	1.3000e-003	3.8500e-003	0.0341	1.0000e-004	8.3200e-003	6.0000e-005	8.3700e-003	2.2100e-003	5.0000e-005	2.2600e-003	0.0000	7.2836	7.2836	3.5000e-004	0.0000	7.2910
<b>Total</b>	<b>2.9700e-003</b>	<b>0.0318</b>	<b>0.0473</b>	<b>1.9000e-004</b>	<b>0.0109</b>	<b>5.4000e-004</b>	<b>0.0115</b>	<b>2.9500e-003</b>	<b>4.9000e-004</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>15.2353</b>	<b>15.2353</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>15.2438</b>

### 3.13 Wire Stringing - 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	9.8900e-003	0.1937	0.2208	4.0000e-004		7.8700e-003	7.8700e-003		7.8700e-003	7.8700e-003	0.0000	37.4960	37.4960	0.0115	0.0000	37.7372
<b>Total</b>	<b>9.8900e-003</b>	<b>0.1937</b>	<b>0.2208</b>	<b>4.0000e-004</b>		<b>7.8700e-003</b>	<b>7.8700e-003</b>		<b>7.8700e-003</b>	<b>7.8700e-003</b>	<b>0.0000</b>	<b>37.4960</b>	<b>37.4960</b>	<b>0.0115</b>	<b>0.0000</b>	<b>37.7372</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6700e-003	0.0279	0.0132	9.0000e-005	2.6000e-003	4.8000e-004	3.0800e-003	7.4000e-004	4.4000e-004	1.1800e-003	0.0000	7.9517	7.9517	5.0000e-005	0.0000	7.9528
Worker	1.3000e-003	3.8500e-003	0.0341	1.0000e-004	8.3200e-003	6.0000e-005	8.3700e-003	2.2100e-003	5.0000e-005	2.2600e-003	0.0000	7.2836	7.2836	3.5000e-004	0.0000	7.2910
<b>Total</b>	<b>2.9700e-003</b>	<b>0.0318</b>	<b>0.0473</b>	<b>1.9000e-004</b>	<b>0.0109</b>	<b>5.4000e-004</b>	<b>0.0115</b>	<b>2.9500e-003</b>	<b>4.9000e-004</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>15.2353</b>	<b>15.2353</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>15.2438</b>

**3.14 Transformer & SVC Delivery - 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	2.2600e-003	0.0252	0.0121	2.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	1.9040	1.9040	5.8000e-004	0.0000	1.9163
<b>Total</b>	<b>2.2600e-003</b>	<b>0.0252</b>	<b>0.0121</b>	<b>2.0000e-005</b>		<b>1.3400e-003</b>	<b>1.3400e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>1.9040</b>	<b>1.9040</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.9163</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	4.6500e-003	2.2000e-003	1.0000e-005	4.3000e-004	8.0000e-005	5.1000e-004	1.2000e-004	7.0000e-005	2.0000e-004	0.0000	1.3253	1.3253	1.0000e-005	0.0000	1.3255
Worker	2.8000e-004	8.4000e-004	7.4200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5834	1.5834	8.0000e-005	0.0000	1.5850
<b>Total</b>	<b>5.6000e-004</b>	<b>5.4900e-003</b>	<b>9.6200e-003</b>	<b>3.0000e-005</b>	<b>2.2400e-003</b>	<b>9.0000e-005</b>	<b>2.3300e-003</b>	<b>6.0000e-004</b>	<b>8.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.9087</b>	<b>2.9087</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.9105</b>

### 3.14 Transformer & SVC Delivery - 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	5.0000e-004	0.0104	0.0125	2.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	1.9040	1.9040	5.8000e-004	0.0000	1.9163
<b>Total</b>	<b>5.0000e-004</b>	<b>0.0104</b>	<b>0.0125</b>	<b>2.0000e-005</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.9040</b>	<b>1.9040</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.9163</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	4.6500e-003	2.2000e-003	1.0000e-005	4.3000e-004	8.0000e-005	5.1000e-004	1.2000e-004	7.0000e-005	2.0000e-004	0.0000	1.3253	1.3253	1.0000e-005	0.0000	1.3255
Worker	2.8000e-004	8.4000e-004	7.4200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5834	1.5834	8.0000e-005	0.0000	1.5850
<b>Total</b>	<b>5.6000e-004</b>	<b>5.4900e-003</b>	<b>9.6200e-003</b>	<b>3.0000e-005</b>	<b>2.2400e-003</b>	<b>9.0000e-005</b>	<b>2.3300e-003</b>	<b>6.0000e-004</b>	<b>8.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.9087</b>	<b>2.9087</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.9105</b>

**3.15 Pull cable - 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	0.0250	0.2466	0.1436	2.7000e-004		0.0145	0.0145		0.0133	0.0133	0.0000	25.2511	25.2511	7.7400e-003	0.0000	25.4136
<b>Total</b>	<b>0.0250</b>	<b>0.2466</b>	<b>0.1436</b>	<b>2.7000e-004</b>		<b>0.0145</b>	<b>0.0145</b>		<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>25.2511</b>	<b>25.2511</b>	<b>7.7400e-003</b>	<b>0.0000</b>	<b>25.4136</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	2.3400e-003	0.0208	6.0000e-005	5.0600e-003	3.0000e-005	5.1000e-003	1.3400e-003	3.0000e-005	1.3800e-003	0.0000	4.4335	4.4335	2.1000e-004	0.0000	4.4380
<b>Total</b>	<b>7.9000e-004</b>	<b>2.3400e-003</b>	<b>0.0208</b>	<b>6.0000e-005</b>	<b>5.0600e-003</b>	<b>3.0000e-005</b>	<b>5.1000e-003</b>	<b>1.3400e-003</b>	<b>3.0000e-005</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>4.4335</b>	<b>4.4335</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>4.4380</b>

**3.15 Pull cable - 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	6.6900e-003	0.1379	0.1675	2.7000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003	0.0000	25.2511	25.2511	7.7400e-003	0.0000	25.4135
<b>Total</b>	<b>6.6900e-003</b>	<b>0.1379</b>	<b>0.1675</b>	<b>2.7000e-004</b>		<b>7.0400e-003</b>	<b>7.0400e-003</b>		<b>7.0400e-003</b>	<b>7.0400e-003</b>	<b>0.0000</b>	<b>25.2511</b>	<b>25.2511</b>	<b>7.7400e-003</b>	<b>0.0000</b>	<b>25.4135</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	2.3400e-003	0.0208	6.0000e-005	5.0600e-003	3.0000e-005	5.1000e-003	1.3400e-003	3.0000e-005	1.3800e-003	0.0000	4.4335	4.4335	2.1000e-004	0.0000	4.4380
<b>Total</b>	<b>7.9000e-004</b>	<b>2.3400e-003</b>	<b>0.0208</b>	<b>6.0000e-005</b>	<b>5.0600e-003</b>	<b>3.0000e-005</b>	<b>5.1000e-003</b>	<b>1.3400e-003</b>	<b>3.0000e-005</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>4.4335</b>	<b>4.4335</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>4.4380</b>



**3.16 Install cable splices - 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	0.0161	0.1692	0.1263	1.8000e-004		8.9700e-003	8.9700e-003		8.2500e-003	8.2500e-003	0.0000	17.0479	17.0479	5.2200e-003	0.0000	17.1576
<b>Total</b>	<b>0.0161</b>	<b>0.1692</b>	<b>0.1263</b>	<b>1.8000e-004</b>		<b>8.9700e-003</b>	<b>8.9700e-003</b>		<b>8.2500e-003</b>	<b>8.2500e-003</b>	<b>0.0000</b>	<b>17.0479</b>	<b>17.0479</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>17.1576</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	6.0000e-004	1.7800e-003	0.0158	5.0000e-005	3.8600e-003	3.0000e-005	3.8800e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.3779	3.3779	1.6000e-004	0.0000	3.3813
<b>Total</b>	<b>6.0000e-004</b>	<b>1.7800e-003</b>	<b>0.0158</b>	<b>5.0000e-005</b>	<b>3.8600e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>1.0200e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.3779</b>	<b>3.3779</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>3.3813</b>

**3.16 Install cable splices - 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	4.5200e-003	0.0875	0.1395	1.8000e-004		4.2200e-003	4.2200e-003		4.2200e-003	4.2200e-003	0.0000	17.0479	17.0479	5.2200e-003	0.0000	17.1576
<b>Total</b>	<b>4.5200e-003</b>	<b>0.0875</b>	<b>0.1395</b>	<b>1.8000e-004</b>		<b>4.2200e-003</b>	<b>4.2200e-003</b>		<b>4.2200e-003</b>	<b>4.2200e-003</b>	<b>0.0000</b>	<b>17.0479</b>	<b>17.0479</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>17.1576</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	6.0000e-004	1.7800e-003	0.0158	5.0000e-005	3.8600e-003	3.0000e-005	3.8800e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.3779	3.3779	1.6000e-004	0.0000	3.3813
<b>Total</b>	<b>6.0000e-004</b>	<b>1.7800e-003</b>	<b>0.0158</b>	<b>5.0000e-005</b>	<b>3.8600e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>1.0200e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.3779</b>	<b>3.3779</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>3.3813</b>

**3.17 Right of way restoration and cleanup - 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					0.0103	0.0000	0.0103	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0735	0.8115	0.4135	9.8000e-004		0.0337	0.0337		0.0310	0.0310	0.0000	91.0699	91.0699	0.0279	0.0000	91.6559
<b>Total</b>	<b>0.0735</b>	<b>0.8115</b>	<b>0.4135</b>	<b>9.8000e-004</b>	<b>0.0103</b>	<b>0.0337</b>	<b>0.0440</b>	<b>1.1100e-003</b>	<b>0.0310</b>	<b>0.0321</b>	<b>0.0000</b>	<b>91.0699</b>	<b>91.0699</b>	<b>0.0279</b>	<b>0.0000</b>	<b>91.6559</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7300e-003	0.0456	0.0215	1.4000e-004	4.2400e-003	7.8000e-004	5.0300e-003	1.2100e-003	7.2000e-004	1.9300e-003	0.0000	12.9877	12.9877	9.0000e-005	0.0000	12.9895
Worker	1.1100e-003	3.2800e-003	0.0291	9.0000e-005	7.0900e-003	5.0000e-005	7.1300e-003	1.8800e-003	4.0000e-005	1.9300e-003	0.0000	6.2069	6.2069	3.0000e-004	0.0000	6.2132
<b>Total</b>	<b>3.8400e-003</b>	<b>0.0489</b>	<b>0.0506</b>	<b>2.3000e-004</b>	<b>0.0113</b>	<b>8.3000e-004</b>	<b>0.0122</b>	<b>3.0900e-003</b>	<b>7.6000e-004</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>19.1946</b>	<b>19.1946</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>19.2027</b>

**3.17 Right of way restoration and cleanup - 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					4.0100e-003	0.0000	4.0100e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0240	0.4642	0.5597	9.8000e-004		0.0185	0.0185		0.0185	0.0185	0.0000	91.0698	91.0698	0.0279	0.0000	91.6558
<b>Total</b>	<b>0.0240</b>	<b>0.4642</b>	<b>0.5597</b>	<b>9.8000e-004</b>	<b>4.0100e-003</b>	<b>0.0185</b>	<b>0.0225</b>	<b>4.3000e-004</b>	<b>0.0185</b>	<b>0.0189</b>	<b>0.0000</b>	<b>91.0698</b>	<b>91.0698</b>	<b>0.0279</b>	<b>0.0000</b>	<b>91.6558</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7300e-003	0.0456	0.0215	1.4000e-004	4.2400e-003	7.8000e-004	5.0300e-003	1.2100e-003	7.2000e-004	1.9300e-003	0.0000	12.9877	12.9877	9.0000e-005	0.0000	12.9895
Worker	1.1100e-003	3.2800e-003	0.0291	9.0000e-005	7.0900e-003	5.0000e-005	7.1300e-003	1.8800e-003	4.0000e-005	1.9300e-003	0.0000	6.2069	6.2069	3.0000e-004	0.0000	6.2132
<b>Total</b>	<b>3.8400e-003</b>	<b>0.0489</b>	<b>0.0506</b>	<b>2.3000e-004</b>	<b>0.0113</b>	<b>8.3000e-004</b>	<b>0.0122</b>	<b>3.0900e-003</b>	<b>7.6000e-004</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>19.1946</b>	<b>19.1946</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>19.2027</b>

**3.17 Right of way 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					0.0103	0.0000	0.0103	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1813	0.1005	2.6000e-004		7.4400e-003	7.4400e-003		6.8400e-003	6.8400e-003	0.0000	23.7731	23.7731	7.4000e-003	0.0000	23.9285
<b>Total</b>	<b>0.0171</b>	<b>0.1813</b>	<b>0.1005</b>	<b>2.6000e-004</b>	<b>0.0103</b>	<b>7.4400e-003</b>	<b>0.0177</b>	<b>1.1100e-003</b>	<b>6.8400e-003</b>	<b>7.9500e-003</b>	<b>0.0000</b>	<b>23.7731</b>	<b>23.7731</b>	<b>7.4000e-003</b>	<b>0.0000</b>	<b>23.9285</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0108	5.4100e-003	4.0000e-005	1.1300e-003	1.9000e-004	1.3200e-003	3.2000e-004	1.8000e-004	5.0000e-004	0.0000	3.3864	3.3864	2.0000e-005	0.0000	3.3869
Worker	2.6000e-004	7.9000e-004	6.9600e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5849	1.5849	7.0000e-005	0.0000	1.5864
<b>Total</b>	<b>9.5000e-004</b>	<b>0.0116</b>	<b>0.0124</b>	<b>6.0000e-005</b>	<b>3.0100e-003</b>	<b>2.0000e-004</b>	<b>3.2100e-003</b>	<b>8.2000e-004</b>	<b>1.9000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>4.9713</b>	<b>4.9713</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>4.9733</b>

**3.17 Right of way 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					4.0100e-003	0.0000	4.0100e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3700e-003	0.1232	0.1485	2.6000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	23.7731	23.7731	7.4000e-003	0.0000	23.9285
<b>Total</b>	<b>6.3700e-003</b>	<b>0.1232</b>	<b>0.1485</b>	<b>2.6000e-004</b>	<b>4.0100e-003</b>	<b>4.9000e-003</b>	<b>8.9100e-003</b>	<b>4.3000e-004</b>	<b>4.9000e-003</b>	<b>5.3300e-003</b>	<b>0.0000</b>	<b>23.7731</b>	<b>23.7731</b>	<b>7.4000e-003</b>	<b>0.0000</b>	<b>23.9285</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0108	5.4100e-003	4.0000e-005	1.1300e-003	1.9000e-004	1.3200e-003	3.2000e-004	1.8000e-004	5.0000e-004	0.0000	3.3864	3.3864	2.0000e-005	0.0000	3.3869
Worker	2.6000e-004	7.9000e-004	6.9600e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5849	1.5849	7.0000e-005	0.0000	1.5864
<b>Total</b>	<b>9.5000e-004</b>	<b>0.0116</b>	<b>0.0124</b>	<b>6.0000e-005</b>	<b>3.0100e-003</b>	<b>2.0000e-004</b>	<b>3.2100e-003</b>	<b>8.2000e-004</b>	<b>1.9000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>4.9713</b>	<b>4.9713</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>4.9733</b>

**3.18 Test cable splices - 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	4.3000e-004	3.7300e-003	2.6100e-003	0.0000		3.1000e-004	3.1000e-004		2.8000e-004	2.8000e-004	0.0000	0.2935	0.2935	9.0000e-005	0.0000	0.2954
<b>Total</b>	<b>4.3000e-004</b>	<b>3.7300e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.2935</b>	<b>0.2935</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2954</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	7.0000e-005	5.9000e-004	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1267	0.1267	1.0000e-005	0.0000	0.1268
<b>Total</b>	<b>2.0000e-005</b>	<b>7.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1267</b>	<b>0.1267</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1268</b>

**3.18 Test cable splices - 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	8.0000e-005	1.7900e-003	2.4100e-003	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.2935	0.2935	9.0000e-005	0.0000	0.2954
<b>Total</b>	<b>8.0000e-005</b>	<b>1.7900e-003</b>	<b>2.4100e-003</b>	<b>0.0000</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.2935</b>	<b>0.2935</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2954</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	7.0000e-005	5.9000e-004	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1267	0.1267	1.0000e-005	0.0000	0.1268
<b>Total</b>	<b>2.0000e-005</b>	<b>7.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1267</b>	<b>0.1267</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1268</b>

**4.0 Operational Detail - Mobile**

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## Suncrest Reactive Power Support Project San Diego County, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	90.00	1000sqft	12.21	90,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2018
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Lot acreage set to 12.59

Construction Phase - Construction Schedule updated to reflect current best case start date

Off-road Equipment - Equipment Roster

Off-road Equipment - Splice truck

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Test truck

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Trips and VMT - 3,600 cubic yards of spoils will need to be hauled offsite = 450 trips \* 8 cubic yards/trip

Grading -

Vehicle Trips - Assumes one (1) trip per day

Water And Wastewater - Unmanned facility, No planned indoor water use

Solid Waste - Unmanned facility, No solid waste generation

Land Use Change -

Construction Off-road Equipment Mitigation - All Engines are assumed to comply with Tier 3 diesel engine standards

Area Mitigation - Low VOC paint



### **3.0 Construction Detail**

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#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Field Survey	Site Preparation	3/1/2017	3/15/2017	7	15	Surveying includes setting up survey equipment, taking measurements, and installing stakes
2	SDG&E Site preparation	Site Preparation	4/1/2017	5/31/2017	7	61	SDG&E Site preparation phase
3	SVC Site Grading	Grading	4/1/2017	4/30/2017	7	30	Site earthwork and grading.
4	Trenching	Trenching	4/1/2017	7/10/2017	7	101	Trench will be approximately 30" wide by 60" deep.
5	Set SVC Substation Foundations	Building Construction	5/1/2017	6/20/2017	7	51	Auguring holes, removing soil, and foundation forming.
6	Material delivery	Building Construction	5/7/2017	8/15/2017	7	101	Material haul, transporting material to the site.
7	Substation construction	Building Construction	5/31/2017	10/8/2017	7	131	Install equipment, structural steel and bus work.
8	Structure Erection	Building Construction	6/1/2017	8/14/2017	7	75	SDG&E Suncrest Substation Structure and Equipment erection
9	Install Vaults	Building Construction	7/11/2017	8/9/2017	7	30	Excavate hole for vault, install vault sections, backfill with concrete
10	Install Transmission line foundations	Building Construction	7/31/2017	8/31/2017	7	32	Foundation installation includes auguring holes, remove soil and foundation formation.
11	Install duct package	Building Construction	8/10/2017	9/28/2017	7	50	Install approximately 100 feet of duct/day
12	Wire Stringing	Building Construction	8/15/2017	9/4/2017	5	15	Wire Stringing into SDG&E Suncrest Substation
13	Transformer & SVC Delivery	Building Construction	8/16/2017	8/30/2017	7	15	Install transformer and SVC
14	Pull cable	Building Construction	9/29/2017	10/19/2017	7	21	6 pulls at 850feet each
15	Install cable splices	Building Construction	10/20/2017	11/20/2017	7	32	Install cable splice. Assume 16 hours/day
16	Right of way restoration and cleanup	Site Preparation	11/13/2017	1/13/2018	7	62	Restore back to natural state, removing culverts, restoring original grade, seeding area with native plants
17	Test cable splices	Building Construction	11/21/2017	11/22/2017	7	2	Test cable splices per accepted standards and techniques.

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Field Survey	Off-Highway Trucks	0	10.00	400	0.38
Field Survey	Rubber Tired Dozers	0	8.00	255	0.40
Field Survey	Tractors/Loaders/Backhoes	0	8.00	97	0.37
SDG&E Site preparation	Bore/Drill Rigs	1	5.00	205	0.50
SDG&E Site preparation	Cranes	1	2.50	226	0.29
SDG&E Site preparation	Excavators	1	7.00	162	0.38
SDG&E Site preparation	Off-Highway Trucks	2	10.00	400	0.38
SDG&E Site preparation	Off-Highway Trucks	2	3.00	400	0.38
SDG&E Site preparation	Rubber Tired Dozers	0	8.00	255	0.40
SDG&E Site preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
SVC Site Grading	Dumpers/Tenders	1	9.00	16	0.38
SVC Site Grading	Dumpers/Tenders	10	5.00	16	0.38
SVC Site Grading	Excavators	0	8.00	162	0.38
SVC Site Grading	Graders	1	9.00	174	0.41
SVC Site Grading	Off-Highway Trucks	1	10.00	400	0.38
SVC Site Grading	Rollers	2	5.00	80	0.38
SVC Site Grading	Rubber Tired Dozers	1	9.00	255	0.40
SVC Site Grading	Rubber Tired Loaders	1	9.00	199	0.36
SVC Site Grading	Scrapers	0	8.00	361	0.48
SVC Site Grading	Tractors/Loaders/Backhoes	1	9.00	97	0.37
Trenching	Dumpers/Tenders	1	10.00	16	0.38
Trenching	Off-Highway Trucks	1	10.00	400	0.38
Trenching	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Trenching	Trenchers	1	10.00	80	0.50

Set SVC Substation Foundations	Bore/Drill Rigs	1	5.00	205	0.50
Set SVC Substation Foundations	Cranes	1	3.00	226	0.29
Set SVC Substation Foundations	Excavators	1	9.00	162	0.38
Set SVC Substation Foundations	Forklifts	0	8.00	89	0.20
Set SVC Substation Foundations	Generator Sets	1	8.00	84	0.74
Set SVC Substation Foundations	Off-Highway Trucks	1	10.00	400	0.38
Set SVC Substation Foundations	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Set SVC Substation Foundations	Welders	0	8.00	46	0.45
Material delivery	Cranes	2	5.00	226	0.29
Material delivery	Forklifts	1	5.00	89	0.20
Material delivery	Generator Sets	0	8.00	84	0.74
Material delivery	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Material delivery	Welders	0	8.00	46	0.45
Substation construction	Cranes	1	7.50	226	0.29
Substation construction	Forklifts	0	8.00	89	0.20
Substation construction	Generator Sets	1	8.00	84	0.74
Substation construction	Off-Highway Trucks	2	10.00	400	0.38
Substation construction	Off-Highway Trucks	2	5.00	400	0.38
Substation construction	Tractors/Loaders/Backhoes	1	2.50	97	0.37
Substation construction	Welders	0	8.00	46	0.45
Structure Erection	Cranes	2	5.00	226	0.29
Structure Erection	Forklifts	0	8.00	89	0.20
Structure Erection	Generator Sets	1	8.00	84	0.74
Structure Erection	Off-Highway Trucks	5	10.00	400	0.38
Structure Erection	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Structure Erection	Welders	0	8.00	46	0.45
Install Vaults	Cranes	0	7.00	226	0.29
Install Vaults	Forklifts	0	8.00	89	0.20

Install Vaults	Generator Sets	1	8.00	84	0.74
Install Vaults	Off-Highway Trucks	3	10.00	400	0.38
Install Vaults	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Install Vaults	Welders	0	8.00	46	0.45
Install Transmission line foundations	Bore/Drill Rigs	1	5.00	205	0.50
Install Transmission line foundations	Cranes	1	2.50	226	0.29
Install Transmission line foundations	Excavators	1	7.00	162	0.38
Install Transmission line foundations	Forklifts	0	8.00	89	0.20
Install Transmission line foundations	Generator Sets	1	8.00	84	0.74
Install Transmission line foundations	Off-Highway Trucks	2	10.00	400	0.38
Install Transmission line foundations	Off-Highway Trucks	2	3.00	400	0.38
Install Transmission line foundations	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install Transmission line foundations	Welders	0	8.00	46	0.45
Install duct package	Cranes	0	7.00	226	0.29
Install duct package	Forklifts	0	8.00	89	0.20
Install duct package	Generator Sets	1	8.00	84	0.74
Install duct package	Off-Highway Trucks	2	7.50	400	0.38
Install duct package	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install duct package	Welders	0	8.00	46	0.45
Wire Stringing	Cranes	1	1.00	226	0.29
Wire Stringing	Forklifts	0	8.00	89	0.20
Wire Stringing	Generator Sets	0	8.00	84	0.74
Wire Stringing	Off-Highway Trucks	3	10.00	400	0.38
Wire Stringing	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Wire Stringing	Welders	0	8.00	46	0.45
Transformer & SVC Delivery	Cranes	1	2.50	226	0.29
Transformer & SVC Delivery	Forklifts	0	8.00	89	0.20
Transformer & SVC Delivery	Generator Sets	0	8.00	84	0.74



Transformer & SVC Delivery	Tractors/Loaders/Backhoes	1	2.50	97	0.37
Transformer & SVC Delivery	Welders	0	8.00	46	0.45
Pull cable	Cranes	0	7.00	226	0.29
Pull cable	Forklifts	0	8.00	89	0.20
Pull cable	Generator Sets	0	8.00	84	0.74
Pull cable	Off-Highway Trucks	1	10.00	400	0.38
Pull cable	Other General Industrial Equipment	3	10.00	87	0.34
Pull cable	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pull cable	Welders	0	8.00	46	0.45
Install cable splices	Cranes	0	7.00	226	0.29
Install cable splices	Forklifts	0	8.00	89	0.20
Install cable splices	Generator Sets	0	8.00	84	0.74
Install cable splices	Other Material Handling Equipment	1	16.00	167	0.40
Install cable splices	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install cable splices	Welders	0	8.00	46	0.45
Right of way restoration and cleanup	Excavators	1	5.00	162	0.38
Right of way restoration and cleanup	Graders	1	5.00	174	0.41
Right of way restoration and cleanup	Off-Highway Trucks	1	10.00	400	0.38
Right of way restoration and cleanup	Off-Highway Trucks	1	10.00	400	0.38
Right of way restoration and cleanup	Rubber Tired Dozers	0	8.00	255	0.40
Right of way restoration and cleanup	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Test cable splices	Cranes	0	7.00	226	0.29
Test cable splices	Forklifts	0	8.00	89	0.20
Test cable splices	Generator Sets	0	8.00	84	0.74
Test cable splices	Other General Industrial Equipment	1	10.00	87	0.34
Test cable splices	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Test cable splices	Welders	0	8.00	46	0.45

**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
Field Survey	0	3.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
SDG&E Site preparation	7	9.00	5.00	0.00	65.00	91.00	65.00	LD_Mix	HDT_Mix	HHDT
SVC Site Grading	18	18.00	12.00	450.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Set SVC Substation Foundations	5	6.00	2.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Material delivery	4	3.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Substation construction	7	8.00	6.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Structure Erection	9	10.00	9.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install Vaults	5	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install Transmission line foundations	8	10.00	5.00	0.00	65.00	143.00	65.00	LD_Mix	HDT_Mix	HHDT
Install duct package	3	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Wire Stringing	5	23.00	6.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Transformer & SVC Delivery	2	5.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Pull cable	4	10.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install cable splices	1	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Right of way restoration and cleanup	4	6.00	3.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Test cable splices	1	3.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

### 3.2 Field 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0363	0.5976	0.2692	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8200e-003	0.0266		194.8586	194.8586	1.2800e-003		194.8855
Worker	0.0235	0.0605	0.6467	1.8400e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		147.3490	147.3490	6.7700e-003		147.4911
<b>Total</b>	<b>0.0599</b>	<b>0.6581</b>	<b>0.9159</b>	<b>3.8000e-003</b>	<b>0.2071</b>	<b>0.0116</b>	<b>0.2187</b>	<b>0.0561</b>	<b>0.0107</b>	<b>0.0668</b>		<b>342.2076</b>	<b>342.2076</b>	<b>8.0500e-003</b>		<b>342.3766</b>

### 3.2 Field 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0363	0.5976	0.2692	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8200e-003	0.0266		194.8586	194.8586	1.2800e-003		194.8855
Worker	0.0235	0.0605	0.6467	1.8400e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		147.3490	147.3490	6.7700e-003		147.4911
<b>Total</b>	<b>0.0599</b>	<b>0.6581</b>	<b>0.9159</b>	<b>3.8000e-003</b>	<b>0.2071</b>	<b>0.0116</b>	<b>0.2187</b>	<b>0.0561</b>	<b>0.0107</b>	<b>0.0668</b>		<b>342.2076</b>	<b>342.2076</b>	<b>8.0500e-003</b>		<b>342.3766</b>

**3.3 SDG&E 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.5494	40.7294	20.3274	0.0546		1.5485	1.5485		1.4246	1.4246		5,581.1553	5,581.1553	1.7101		5,617.0665
<b>Total</b>	<b>3.5494</b>	<b>40.7294</b>	<b>20.3274</b>	<b>0.0546</b>	<b>0.0000</b>	<b>1.5485</b>	<b>1.5485</b>	<b>0.0000</b>	<b>1.4246</b>	<b>1.4246</b>		<b>5,581.1553</b>	<b>5,581.1553</b>	<b>1.7101</b>		<b>5,617.0665</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2421	4.1431	1.7173	0.0137	0.4123	0.0746	0.4869	0.1175	0.0686	0.1861		1,360.4689	1,360.4689	8.8900e-003		1,360.6557
Worker	0.0706	0.1816	1.9402	5.5100e-003	0.4445	2.8800e-003	0.4474	0.1179	2.6600e-003	0.1205		442.0470	442.0470	0.0203		442.4734
<b>Total</b>	<b>0.3126</b>	<b>4.3247</b>	<b>3.6574</b>	<b>0.0192</b>	<b>0.8568</b>	<b>0.0775</b>	<b>0.9343</b>	<b>0.2353</b>	<b>0.0713</b>	<b>0.3066</b>		<b>1,802.5159</b>	<b>1,802.5159</b>	<b>0.0292</b>		<b>1,803.1291</b>

### 3.3 SDG&E 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3385	25.8768	30.0449	0.0546		1.0043	1.0043		1.0043	1.0043	0.0000	5,581.1553	5,581.1553	1.7101		5,617.0665
<b>Total</b>	<b>1.3385</b>	<b>25.8768</b>	<b>30.0449</b>	<b>0.0546</b>	<b>0.0000</b>	<b>1.0043</b>	<b>1.0043</b>	<b>0.0000</b>	<b>1.0043</b>	<b>1.0043</b>	<b>0.0000</b>	<b>5,581.1553</b>	<b>5,581.1553</b>	<b>1.7101</b>		<b>5,617.0665</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2421	4.1431	1.7173	0.0137	0.4123	0.0746	0.4869	0.1175	0.0686	0.1861		1,360.4689	1,360.4689	8.8900e-003		1,360.6557
Worker	0.0706	0.1816	1.9402	5.5100e-003	0.4445	2.8800e-003	0.4474	0.1179	2.6600e-003	0.1205		442.0470	442.0470	0.0203		442.4734
<b>Total</b>	<b>0.3126</b>	<b>4.3247</b>	<b>3.6574</b>	<b>0.0192</b>	<b>0.8568</b>	<b>0.0775</b>	<b>0.9343</b>	<b>0.2353</b>	<b>0.0713</b>	<b>0.3066</b>		<b>1,802.5159</b>	<b>1,802.5159</b>	<b>0.0292</b>		<b>1,803.1291</b>

**3.4 SVC Site Grading - 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	lb/day										lb/day					
Fugitive Dust					7.3884	0.0000	7.3884	3.7910	0.0000	3.7910			0.0000			0.0000
Off-Road	5.3189	55.2405	31.5294	0.0526		2.6408	2.6408		2.4404	2.4404		5,269.0463	5,269.0463	1.5258		5,301.0871
<b>Total</b>	<b>5.3189</b>	<b>55.2405</b>	<b>31.5294</b>	<b>0.0526</b>	<b>7.3884</b>	<b>2.6408</b>	<b>10.0293</b>	<b>3.7910</b>	<b>2.4404</b>	<b>6.2314</b>		<b>5,269.0463</b>	<b>5,269.0463</b>	<b>1.5258</b>		<b>5,301.0871</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6263	11.4586	5.0000	0.0357	0.8488	0.1626	1.0114	0.2324	0.1496	0.3819		3,551.2691	3,551.2691	0.0233		3,551.7575
Vendor	0.4361	7.1706	3.2304	0.0236	0.7069	0.1281	0.8350	0.2014	0.1178	0.3193		2,338.3028	2,338.3028	0.0154		2,338.6254
Worker	0.1411	0.3632	3.8804	0.0110	0.8890	5.7600e-003	0.8948	0.2357	5.3100e-003	0.2410		884.0940	884.0940	0.0406		884.9468
<b>Total</b>	<b>1.2036</b>	<b>18.9923</b>	<b>12.1107</b>	<b>0.0703</b>	<b>2.4447</b>	<b>0.2964</b>	<b>2.7411</b>	<b>0.6695</b>	<b>0.2727</b>	<b>0.9422</b>		<b>6,773.6658</b>	<b>6,773.6658</b>	<b>0.0792</b>		<b>6,775.3298</b>

**3.4 SVC Site Grading - 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	lb/day										lb/day					
Fugitive Dust					2.8815	0.0000	2.8815	1.4785	0.0000	1.4785			0.0000			0.0000
Off-Road	1.1513	22.8390	28.0224	0.0526		1.0220	1.0220		1.0220	1.0220	0.0000	5,269.0463	5,269.0463	1.5258		5,301.0871
<b>Total</b>	<b>1.1513</b>	<b>22.8390</b>	<b>28.0224</b>	<b>0.0526</b>	<b>2.8815</b>	<b>1.0220</b>	<b>3.9035</b>	<b>1.4785</b>	<b>1.0220</b>	<b>2.5005</b>	<b>0.0000</b>	<b>5,269.0463</b>	<b>5,269.0463</b>	<b>1.5258</b>		<b>5,301.0871</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6263	11.4586	5.0000	0.0357	0.8488	0.1626	1.0114	0.2324	0.1496	0.3819		3,551.2691	3,551.2691	0.0233		3,551.7575
Vendor	0.4361	7.1706	3.2304	0.0236	0.7069	0.1281	0.8350	0.2014	0.1178	0.3193		2,338.3028	2,338.3028	0.0154		2,338.6254
Worker	0.1411	0.3632	3.8804	0.0110	0.8890	5.7600e-003	0.8948	0.2357	5.3100e-003	0.2410		884.0940	884.0940	0.0406		884.9468
<b>Total</b>	<b>1.2036</b>	<b>18.9923</b>	<b>12.1107</b>	<b>0.0703</b>	<b>2.4447</b>	<b>0.2964</b>	<b>2.7411</b>	<b>0.6695</b>	<b>0.2727</b>	<b>0.9422</b>		<b>6,773.6658</b>	<b>6,773.6658</b>	<b>0.0792</b>		<b>6,775.3298</b>



### 3.5 Trenching - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2496	22.5721	12.6621	0.0256		1.2268	1.2268		1.1305	1.1305		2,597.0155	2,597.0155	0.7807		2,613.4100
<b>Total</b>	<b>2.2496</b>	<b>22.5721</b>	<b>12.6621</b>	<b>0.0256</b>		<b>1.2268</b>	<b>1.2268</b>		<b>1.1305</b>	<b>1.1305</b>		<b>2,597.0155</b>	<b>2,597.0155</b>	<b>0.7807</b>		<b>2,613.4100</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0392</b>	<b>0.1009</b>	<b>1.0779</b>	<b>3.0600e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>245.5817</b>	<b>245.5817</b>	<b>0.0113</b>		<b>245.8186</b>

### 3.5 Trenching - 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	lb/day										lb/day					
Off-Road	0.6029	12.3586	14.9031	0.0256		0.6161	0.6161		0.6161	0.6161	0.0000	2,597.0155	2,597.0155	0.7807		2,613.4100
<b>Total</b>	<b>0.6029</b>	<b>12.3586</b>	<b>14.9031</b>	<b>0.0256</b>		<b>0.6161</b>	<b>0.6161</b>		<b>0.6161</b>	<b>0.6161</b>	<b>0.0000</b>	<b>2,597.0155</b>	<b>2,597.0155</b>	<b>0.7807</b>		<b>2,613.4100</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0392</b>	<b>0.1009</b>	<b>1.0779</b>	<b>3.0600e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>245.5817</b>	<b>245.5817</b>	<b>0.0113</b>		<b>245.8186</b>

### 3.6 Set SVC Substation Foundations - 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	lb/day										lb/day					
Off-Road	2.5066	27.0099	15.7578	0.0366		1.1896	1.1896		1.1184	1.1184		3,687.0578	3,687.0578	0.9892		3,707.8318
<b>Total</b>	<b>2.5066</b>	<b>27.0099</b>	<b>15.7578</b>	<b>0.0366</b>		<b>1.1896</b>	<b>1.1896</b>		<b>1.1184</b>	<b>1.1184</b>		<b>3,687.0578</b>	<b>3,687.0578</b>	<b>0.9892</b>		<b>3,707.8318</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0727	1.1951	0.5384	3.9300e-003	0.1178	0.0213	0.1392	0.0336	0.0196	0.0532		389.7171	389.7171	2.5600e-003		389.7709
Worker	0.0470	0.1211	1.2935	3.6700e-003	0.2964	1.9200e-003	0.2983	0.0786	1.7700e-003	0.0803		294.6980	294.6980	0.0135		294.9823
<b>Total</b>	<b>0.1197</b>	<b>1.3162</b>	<b>1.8319</b>	<b>7.6000e-003</b>	<b>0.4142</b>	<b>0.0233</b>	<b>0.4374</b>	<b>0.1121</b>	<b>0.0214</b>	<b>0.1336</b>		<b>684.4151</b>	<b>684.4151</b>	<b>0.0161</b>		<b>684.7532</b>

### 3.6 Set SVC Substation Foundations - 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	lb/day										lb/day					
Off-Road	0.8679	17.2390	21.3531	0.0366		0.7798	0.7798		0.7798	0.7798	0.0000	3,687.0578	3,687.0578	0.9892		3,707.8318
<b>Total</b>	<b>0.8679</b>	<b>17.2390</b>	<b>21.3531</b>	<b>0.0366</b>		<b>0.7798</b>	<b>0.7798</b>		<b>0.7798</b>	<b>0.7798</b>	<b>0.0000</b>	<b>3,687.0578</b>	<b>3,687.0578</b>	<b>0.9892</b>		<b>3,707.8318</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0727	1.1951	0.5384	3.9300e-003	0.1178	0.0213	0.1392	0.0336	0.0196	0.0532		389.7171	389.7171	2.5600e-003		389.7709
Worker	0.0470	0.1211	1.2935	3.6700e-003	0.2964	1.9200e-003	0.2983	0.0786	1.7700e-003	0.0803		294.6980	294.6980	0.0135		294.9823
<b>Total</b>	<b>0.1197</b>	<b>1.3162</b>	<b>1.8319</b>	<b>7.6000e-003</b>	<b>0.4142</b>	<b>0.0233</b>	<b>0.4374</b>	<b>0.1121</b>	<b>0.0214</b>	<b>0.1336</b>		<b>684.4151</b>	<b>684.4151</b>	<b>0.0161</b>		<b>684.7532</b>

### 3.7 Material delivery - 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	lb/day										lb/day					
Off-Road	1.1398	12.6602	5.7223	9.9500e-003		0.6660	0.6660		0.6127	0.6127		1,018.1223	1,018.1223	0.3120		1,024.6733
<b>Total</b>	<b>1.1398</b>	<b>12.6602</b>	<b>5.7223</b>	<b>9.9500e-003</b>		<b>0.6660</b>	<b>0.6660</b>		<b>0.6127</b>	<b>0.6127</b>		<b>1,018.1223</b>	<b>1,018.1223</b>	<b>0.3120</b>		<b>1,024.6733</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0363	0.5976	0.2692	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8200e-003	0.0266		194.8586	194.8586	1.2800e-003		194.8855
Worker	0.0235	0.0605	0.6467	1.8400e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		147.3490	147.3490	6.7700e-003		147.4911
<b>Total</b>	<b>0.0599</b>	<b>0.6581</b>	<b>0.9159</b>	<b>3.8000e-003</b>	<b>0.2071</b>	<b>0.0116</b>	<b>0.2187</b>	<b>0.0561</b>	<b>0.0107</b>	<b>0.0668</b>		<b>342.2076</b>	<b>342.2076</b>	<b>8.0500e-003</b>		<b>342.3766</b>

### 3.7 Material delivery - 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	lb/day										lb/day					
Off-Road	0.2444	4.9738	5.9465	9.9500e-003		0.2408	0.2408		0.2408	0.2408	0.0000	1,018.1223	1,018.1223	0.3120		1,024.6733
<b>Total</b>	<b>0.2444</b>	<b>4.9738</b>	<b>5.9465</b>	<b>9.9500e-003</b>		<b>0.2408</b>	<b>0.2408</b>		<b>0.2408</b>	<b>0.2408</b>	<b>0.0000</b>	<b>1,018.1223</b>	<b>1,018.1223</b>	<b>0.3120</b>		<b>1,024.6733</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0363	0.5976	0.2692	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8200e-003	0.0266		194.8586	194.8586	1.2800e-003		194.8855
Worker	0.0235	0.0605	0.6467	1.8400e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		147.3490	147.3490	6.7700e-003		147.4911
<b>Total</b>	<b>0.0599</b>	<b>0.6581</b>	<b>0.9159</b>	<b>3.8000e-003</b>	<b>0.2071</b>	<b>0.0116</b>	<b>0.2187</b>	<b>0.0561</b>	<b>0.0107</b>	<b>0.0668</b>		<b>342.2076</b>	<b>342.2076</b>	<b>8.0500e-003</b>		<b>342.3766</b>

### 3.8 Substation 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	lb/day										lb/day					
Off-Road	4.5465	49.5064	24.6757	0.0621		2.0625	2.0625		1.9215	1.9215		6,304.6372	6,304.6372	1.7913		6,342.2537
<b>Total</b>	<b>4.5465</b>	<b>49.5064</b>	<b>24.6757</b>	<b>0.0621</b>		<b>2.0625</b>	<b>2.0625</b>		<b>1.9215</b>	<b>1.9215</b>		<b>6,304.6372</b>	<b>6,304.6372</b>	<b>1.7913</b>		<b>6,342.2537</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2181	3.5853	1.6152	0.0118	0.3535	0.0640	0.4175	0.1007	0.0589	0.1596		1,169.1514	1,169.1514	7.6800e-003		1,169.3127
Worker	0.0627	0.1614	1.7246	4.9000e-003	0.3951	2.5600e-003	0.3977	0.1048	2.3600e-003	0.1071		392.9307	392.9307	0.0181		393.3097
<b>Total</b>	<b>0.2808</b>	<b>3.7467</b>	<b>3.3398</b>	<b>0.0167</b>	<b>0.7486</b>	<b>0.0666</b>	<b>0.8152</b>	<b>0.2055</b>	<b>0.0613</b>	<b>0.2668</b>		<b>1,562.0820</b>	<b>1,562.0820</b>	<b>0.0257</b>		<b>1,562.6224</b>

### 3.8 Substation construction - 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	lb/day										lb/day					
Off-Road	1.4917	29.3832	33.7438	0.0621		1.2285	1.2285		1.2285	1.2285	0.0000	6,304.637 2	6,304.637 2	1.7913		6,342.253 7
<b>Total</b>	<b>1.4917</b>	<b>29.3832</b>	<b>33.7438</b>	<b>0.0621</b>		<b>1.2285</b>	<b>1.2285</b>		<b>1.2285</b>	<b>1.2285</b>	<b>0.0000</b>	<b>6,304.637 2</b>	<b>6,304.637 2</b>	<b>1.7913</b>		<b>6,342.253 7</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2181	3.5853	1.6152	0.0118	0.3535	0.0640	0.4175	0.1007	0.0589	0.1596		1,169.151 4	1,169.151 4	7.6800e- 003		1,169.312 7
Worker	0.0627	0.1614	1.7246	4.9000e- 003	0.3951	2.5600e- 003	0.3977	0.1048	2.3600e- 003	0.1071		392.9307	392.9307	0.0181		393.3097
<b>Total</b>	<b>0.2808</b>	<b>3.7467</b>	<b>3.3398</b>	<b>0.0167</b>	<b>0.7486</b>	<b>0.0666</b>	<b>0.8152</b>	<b>0.2055</b>	<b>0.0613</b>	<b>0.2668</b>		<b>1,562.082 0</b>	<b>1,562.082 0</b>	<b>0.0257</b>		<b>1,562.622 4</b>



### 3.9 Structure Erection - 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	lb/day										lb/day					
Off-Road	6.9092	76.3061	37.1009	0.0966		3.0680	3.0680		2.8466	2.8466		9,825.7886	9,825.7886	2.8701		9,886.0615
<b>Total</b>	<b>6.9092</b>	<b>76.3061</b>	<b>37.1009</b>	<b>0.0966</b>		<b>3.0680</b>	<b>3.0680</b>		<b>2.8466</b>	<b>2.8466</b>		<b>9,825.7886</b>	<b>9,825.7886</b>	<b>2.8701</b>		<b>9,886.0615</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3271	5.3779	2.4228	0.0177	0.5302	0.0961	0.6262	0.1511	0.0884	0.2394		1,753.7271	1,753.7271	0.0115		1,753.9691
Worker	0.0784	0.2018	2.1558	6.1200e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		491.1633	491.1633	0.0226		491.6371
<b>Total</b>	<b>0.4055</b>	<b>5.5797</b>	<b>4.5786</b>	<b>0.0238</b>	<b>1.0241</b>	<b>0.0993</b>	<b>1.1234</b>	<b>0.2820</b>	<b>0.0913</b>	<b>0.3733</b>		<b>2,244.8904</b>	<b>2,244.8904</b>	<b>0.0341</b>		<b>2,245.6062</b>

### 3.9 Structure Erection - 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	lb/day										lb/day					
Off-Road	2.3346	45.6616	51.9620	0.0966		1.8425	1.8425		1.8425	1.8425	0.0000	9,825.7886	9,825.7886	2.8701		9,886.0615
<b>Total</b>	<b>2.3346</b>	<b>45.6616</b>	<b>51.9620</b>	<b>0.0966</b>		<b>1.8425</b>	<b>1.8425</b>		<b>1.8425</b>	<b>1.8425</b>	<b>0.0000</b>	<b>9,825.7886</b>	<b>9,825.7886</b>	<b>2.8701</b>		<b>9,886.0615</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3271	5.3779	2.4228	0.0177	0.5302	0.0961	0.6262	0.1511	0.0884	0.2394		1,753.7271	1,753.7271	0.0115		1,753.9691
Worker	0.0784	0.2018	2.1558	6.1200e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		491.1633	491.1633	0.0226		491.6371
<b>Total</b>	<b>0.4055</b>	<b>5.5797</b>	<b>4.5786</b>	<b>0.0238</b>	<b>1.0241</b>	<b>0.0993</b>	<b>1.1234</b>	<b>0.2820</b>	<b>0.0913</b>	<b>0.3733</b>		<b>2,244.8904</b>	<b>2,244.8904</b>	<b>0.0341</b>		<b>2,245.6062</b>

**3.10 Install Vaults - 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	lb/day										lb/day					
Off-Road	4.2360	45.1478	24.3359	0.0598		1.9556	1.9556		1.8231	1.8231		6,061.8499	6,061.8499	1.7169		6,097.9043
<b>Total</b>	<b>4.2360</b>	<b>45.1478</b>	<b>24.3359</b>	<b>0.0598</b>		<b>1.9556</b>	<b>1.9556</b>		<b>1.8231</b>	<b>1.8231</b>		<b>6,061.8499</b>	<b>6,061.8499</b>	<b>1.7169</b>		<b>6,097.9043</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0392</b>	<b>0.1009</b>	<b>1.0779</b>	<b>3.0600e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>245.5817</b>	<b>245.5817</b>	<b>0.0113</b>		<b>245.8186</b>

**3.10 Install Vaults - 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	lb/day										lb/day					
Off-Road	1.4329	28.4950	33.1220	0.0598		1.2471	1.2471		1.2471	1.2471	0.0000	6,061.8499	6,061.8499	1.7169		6,097.9043
<b>Total</b>	<b>1.4329</b>	<b>28.4950</b>	<b>33.1220</b>	<b>0.0598</b>		<b>1.2471</b>	<b>1.2471</b>		<b>1.2471</b>	<b>1.2471</b>	<b>0.0000</b>	<b>6,061.8499</b>	<b>6,061.8499</b>	<b>1.7169</b>		<b>6,097.9043</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0392</b>	<b>0.1009</b>	<b>1.0779</b>	<b>3.0600e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>245.5817</b>	<b>245.5817</b>	<b>0.0113</b>		<b>245.8186</b>

**3.11 Install Transmission line foundations - 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	lb/day										lb/day					
Off-Road	4.1195	45.1936	24.1009	0.0612		1.8489	1.8489		1.7250	1.7250		6,204.1899	6,204.1899	1.7605		6,241.1601
<b>Total</b>	<b>4.1195</b>	<b>45.1936</b>	<b>24.1009</b>	<b>0.0612</b>		<b>1.8489</b>	<b>1.8489</b>		<b>1.7250</b>	<b>1.7250</b>		<b>6,204.1899</b>	<b>6,204.1899</b>	<b>1.7605</b>		<b>6,241.1601</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3627	6.4538	2.4598	0.0215	0.6479	0.1171	0.7650	0.1846	0.1077	0.2923		2,132.8211	2,132.8211	0.0139		2,133.1126
Worker	0.0784	0.2018	2.1558	6.1200e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		491.1633	491.1633	0.0226		491.6371
<b>Total</b>	<b>0.4411</b>	<b>6.6556</b>	<b>4.6156</b>	<b>0.0276</b>	<b>1.1418</b>	<b>0.1203</b>	<b>1.2621</b>	<b>0.3155</b>	<b>0.1107</b>	<b>0.4262</b>		<b>2,623.9844</b>	<b>2,623.9844</b>	<b>0.0364</b>		<b>2,624.7497</b>

**3.11 Install Transmission line foundations - 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	lb/day										lb/day					
Off-Road	1.4700	28.8807	34.1012	0.0612		1.2148	1.2148		1.2148	1.2148	0.0000	6,204.1899	6,204.1899	1.7605		6,241.1601
<b>Total</b>	<b>1.4700</b>	<b>28.8807</b>	<b>34.1012</b>	<b>0.0612</b>		<b>1.2148</b>	<b>1.2148</b>		<b>1.2148</b>	<b>1.2148</b>	<b>0.0000</b>	<b>6,204.1899</b>	<b>6,204.1899</b>	<b>1.7605</b>		<b>6,241.1601</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3627	6.4538	2.4598	0.0215	0.6479	0.1171	0.7650	0.1846	0.1077	0.2923		2,132.8211	2,132.8211	0.0139		2,133.1126
Worker	0.0784	0.2018	2.1558	6.1200e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		491.1633	491.1633	0.0226		491.6371
<b>Total</b>	<b>0.4411</b>	<b>6.6556</b>	<b>4.6156</b>	<b>0.0276</b>	<b>1.1418</b>	<b>0.1203</b>	<b>1.2621</b>	<b>0.3155</b>	<b>0.1107</b>	<b>0.4262</b>		<b>2,623.9844</b>	<b>2,623.9844</b>	<b>0.0364</b>		<b>2,624.7497</b>

**3.12 Install duct package - 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	lb/day										lb/day					
Off-Road	2.2051	22.9036	12.5586	0.0312		0.9849	0.9849		0.9301	0.9301		3,143.5267	3,143.5267	0.8227		3,160.8035
<b>Total</b>	<b>2.2051</b>	<b>22.9036</b>	<b>12.5586</b>	<b>0.0312</b>		<b>0.9849</b>	<b>0.9849</b>		<b>0.9301</b>	<b>0.9301</b>		<b>3,143.5267</b>	<b>3,143.5267</b>	<b>0.8227</b>		<b>3,160.8035</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0392</b>	<b>0.1009</b>	<b>1.0779</b>	<b>3.0600e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>245.5817</b>	<b>245.5817</b>	<b>0.0113</b>		<b>245.8186</b>

**3.12 Install duct package - 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	lb/day										lb/day					
Off-Road	0.7347	14.6655	17.1254	0.0312		0.6528	0.6528		0.6528	0.6528	0.0000	3,143.5267	3,143.5267	0.8227		3,160.8035
<b>Total</b>	<b>0.7347</b>	<b>14.6655</b>	<b>17.1254</b>	<b>0.0312</b>		<b>0.6528</b>	<b>0.6528</b>		<b>0.6528</b>	<b>0.6528</b>	<b>0.0000</b>	<b>3,143.5267</b>	<b>3,143.5267</b>	<b>0.8227</b>		<b>3,160.8035</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0392</b>	<b>0.1009</b>	<b>1.0779</b>	<b>3.0600e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>245.5817</b>	<b>245.5817</b>	<b>0.0113</b>		<b>245.8186</b>



### 3.13 Wire Stringing - 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	lb/day										lb/day					
Off-Road	3.7469	41.6453	20.9069	0.0539		1.6980	1.6980		1.5622	1.5622		5,510.970 1	5,510.970 1	1.6886		5,546.429 7
<b>Total</b>	<b>3.7469</b>	<b>41.6453</b>	<b>20.9069</b>	<b>0.0539</b>		<b>1.6980</b>	<b>1.6980</b>		<b>1.5622</b>	<b>1.5622</b>		<b>5,510.970 1</b>	<b>5,510.970 1</b>	<b>1.6886</b>		<b>5,546.429 7</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2181	3.5853	1.6152	0.0118	0.3535	0.0640	0.4175	0.1007	0.0589	0.1596		1,169.151 4	1,169.151 4	7.6800e-003		1,169.312 7
Worker	0.1803	0.4640	4.9583	0.0141	1.1360	7.3600e-003	1.1434	0.3012	6.7900e-003	0.3080		1,129.675 6	1,129.675 6	0.0519		1,130.765 4
<b>Total</b>	<b>0.3984</b>	<b>4.0493</b>	<b>6.5735</b>	<b>0.0259</b>	<b>1.4895</b>	<b>0.0714</b>	<b>1.5608</b>	<b>0.4019</b>	<b>0.0657</b>	<b>0.4676</b>		<b>2,298.827 0</b>	<b>2,298.827 0</b>	<b>0.0596</b>		<b>2,300.078 1</b>

**3.13 Wire Stringing - 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	lb/day										lb/day					
Off-Road	1.3187	25.8264	29.4413	0.0539		1.0493	1.0493		1.0493	1.0493	0.0000	5,510.970 1	5,510.970 1	1.6886		5,546.429 7
<b>Total</b>	<b>1.3187</b>	<b>25.8264</b>	<b>29.4413</b>	<b>0.0539</b>		<b>1.0493</b>	<b>1.0493</b>		<b>1.0493</b>	<b>1.0493</b>	<b>0.0000</b>	<b>5,510.970 1</b>	<b>5,510.970 1</b>	<b>1.6886</b>		<b>5,546.429 7</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2181	3.5853	1.6152	0.0118	0.3535	0.0640	0.4175	0.1007	0.0589	0.1596		1,169.151 4	1,169.151 4	7.6800e- 003		1,169.312 7
Worker	0.1803	0.4640	4.9583	0.0141	1.1360	7.3600e- 003	1.1434	0.3012	6.7900e- 003	0.3080		1,129.675 6	1,129.675 6	0.0519		1,130.765 4
<b>Total</b>	<b>0.3984</b>	<b>4.0493</b>	<b>6.5735</b>	<b>0.0259</b>	<b>1.4895</b>	<b>0.0714</b>	<b>1.5608</b>	<b>0.4019</b>	<b>0.0657</b>	<b>0.4676</b>		<b>2,298.827 0</b>	<b>2,298.827 0</b>	<b>0.0596</b>		<b>2,300.078 1</b>

**3.14 Transformer & SVC Delivery - 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	lb/day										lb/day					
Off-Road	0.3015	3.3553	1.6094	2.7300e-003		0.1787	0.1787		0.1644	0.1644		279.8447	279.8447	0.0857		281.6453
<b>Total</b>	<b>0.3015</b>	<b>3.3553</b>	<b>1.6094</b>	<b>2.7300e-003</b>		<b>0.1787</b>	<b>0.1787</b>		<b>0.1644</b>	<b>0.1644</b>		<b>279.8447</b>	<b>279.8447</b>	<b>0.0857</b>		<b>281.6453</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0363	0.5976	0.2692	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8200e-003	0.0266		194.8586	194.8586	1.2800e-003		194.8855
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0755</b>	<b>0.6984</b>	<b>1.3471</b>	<b>5.0200e-003</b>	<b>0.3059</b>	<b>0.0123</b>	<b>0.3181</b>	<b>0.0823</b>	<b>0.0113</b>	<b>0.0936</b>		<b>440.4402</b>	<b>440.4402</b>	<b>0.0126</b>		<b>440.7040</b>

### 3.14 Transformer & SVC Delivery - 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	lb/day										lb/day					
Off-Road	0.0671	1.3801	1.6711	2.7300e-003		0.0698	0.0698		0.0698	0.0698	0.0000	279.8447	279.8447	0.0857		281.6453
<b>Total</b>	<b>0.0671</b>	<b>1.3801</b>	<b>1.6711</b>	<b>2.7300e-003</b>		<b>0.0698</b>	<b>0.0698</b>		<b>0.0698</b>	<b>0.0698</b>	<b>0.0000</b>	<b>279.8447</b>	<b>279.8447</b>	<b>0.0857</b>		<b>281.6453</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0363	0.5976	0.2692	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8200e-003	0.0266		194.8586	194.8586	1.2800e-003		194.8855
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0755</b>	<b>0.6984</b>	<b>1.3471</b>	<b>5.0200e-003</b>	<b>0.3059</b>	<b>0.0123</b>	<b>0.3181</b>	<b>0.0823</b>	<b>0.0113</b>	<b>0.0936</b>		<b>440.4402</b>	<b>440.4402</b>	<b>0.0126</b>		<b>440.7040</b>

**3.15 Pull cable - 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	lb/day										lb/day					
Off-Road	2.3812	23.4861	13.6785	0.0259		1.3768	1.3768		1.2666	1.2666		2,650.9105	2,650.9105	0.8122		2,667.9674
<b>Total</b>	<b>2.3812</b>	<b>23.4861</b>	<b>13.6785</b>	<b>0.0259</b>		<b>1.3768</b>	<b>1.3768</b>		<b>1.2666</b>	<b>1.2666</b>		<b>2,650.9105</b>	<b>2,650.9105</b>	<b>0.8122</b>		<b>2,667.9674</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0784	0.2018	2.1558	6.1200e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		491.1633	491.1633	0.0226		491.6371
<b>Total</b>	<b>0.0784</b>	<b>0.2018</b>	<b>2.1558</b>	<b>6.1200e-003</b>	<b>0.4939</b>	<b>3.2000e-003</b>	<b>0.4971</b>	<b>0.1309</b>	<b>2.9500e-003</b>	<b>0.1339</b>		<b>491.1633</b>	<b>491.1633</b>	<b>0.0226</b>		<b>491.6371</b>

**3.15 Pull cable - 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	lb/day										lb/day					
Off-Road	0.6369	13.1349	15.9513	0.0259		0.6705	0.6705		0.6705	0.6705	0.0000	2,650.9105	2,650.9105	0.8122		2,667.9674
<b>Total</b>	<b>0.6369</b>	<b>13.1349</b>	<b>15.9513</b>	<b>0.0259</b>		<b>0.6705</b>	<b>0.6705</b>		<b>0.6705</b>	<b>0.6705</b>	<b>0.0000</b>	<b>2,650.9105</b>	<b>2,650.9105</b>	<b>0.8122</b>		<b>2,667.9674</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0784	0.2018	2.1558	6.1200e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		491.1633	491.1633	0.0226		491.6371
<b>Total</b>	<b>0.0784</b>	<b>0.2018</b>	<b>2.1558</b>	<b>6.1200e-003</b>	<b>0.4939</b>	<b>3.2000e-003</b>	<b>0.4971</b>	<b>0.1309</b>	<b>2.9500e-003</b>	<b>0.1339</b>		<b>491.1633</b>	<b>491.1633</b>	<b>0.0226</b>		<b>491.6371</b>

**3.16 Install cable splices - 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	lb/day										lb/day					
Off-Road	1.0058	10.5753	7.8964	0.0115		0.5605	0.5605		0.5157	0.5157		1,174.5068	1,174.5068	0.3599		1,182.0640
<b>Total</b>	<b>1.0058</b>	<b>10.5753</b>	<b>7.8964</b>	<b>0.0115</b>		<b>0.5605</b>	<b>0.5605</b>		<b>0.5157</b>	<b>0.5157</b>		<b>1,174.5068</b>	<b>1,174.5068</b>	<b>0.3599</b>		<b>1,182.0640</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0392</b>	<b>0.1009</b>	<b>1.0779</b>	<b>3.0600e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>245.5817</b>	<b>245.5817</b>	<b>0.0113</b>		<b>245.8186</b>

**3.16 Install cable splices - 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	lb/day										lb/day					
Off-Road	0.2828	5.4666	8.7183	0.0115		0.2639	0.2639		0.2639	0.2639	0.0000	1,174.5068	1,174.5068	0.3599		1,182.0640
<b>Total</b>	<b>0.2828</b>	<b>5.4666</b>	<b>8.7183</b>	<b>0.0115</b>		<b>0.2639</b>	<b>0.2639</b>		<b>0.2639</b>	<b>0.2639</b>	<b>0.0000</b>	<b>1,174.5068</b>	<b>1,174.5068</b>	<b>0.3599</b>		<b>1,182.0640</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.1009	1.0779	3.0600e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		245.5817	245.5817	0.0113		245.8186
<b>Total</b>	<b>0.0392</b>	<b>0.1009</b>	<b>1.0779</b>	<b>3.0600e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>245.5817</b>	<b>245.5817</b>	<b>0.0113</b>		<b>245.8186</b>



**3.17 Right of way restoration and cleanup - 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	lb/day										lb/day					
Fugitive Dust					0.3315	0.0000	0.3315	0.0358	0.0000	0.0358			0.0000			0.0000
Off-Road	3.0017	33.1222	16.8754	0.0401		1.3747	1.3747		1.2647	1.2647		4,097.4456	4,097.4456	1.2555		4,123.8100
<b>Total</b>	<b>3.0017</b>	<b>33.1222</b>	<b>16.8754</b>	<b>0.0401</b>	<b>0.3315</b>	<b>1.3747</b>	<b>1.7062</b>	<b>0.0358</b>	<b>1.2647</b>	<b>1.3005</b>		<b>4,097.4456</b>	<b>4,097.4456</b>	<b>1.2555</b>		<b>4,123.8100</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1090	1.7927	0.8076	5.8900e-003	0.1767	0.0320	0.2088	0.0504	0.0295	0.0798		584.5757	584.5757	3.8400e-003		584.6564
Worker	0.0470	0.1211	1.2935	3.6700e-003	0.2964	1.9200e-003	0.2983	0.0786	1.7700e-003	0.0803		294.6980	294.6980	0.0135		294.9823
<b>Total</b>	<b>0.1561</b>	<b>1.9137</b>	<b>2.1011</b>	<b>9.5600e-003</b>	<b>0.4731</b>	<b>0.0339</b>	<b>0.5070</b>	<b>0.1289</b>	<b>0.0312</b>	<b>0.1602</b>		<b>879.2737</b>	<b>879.2737</b>	<b>0.0174</b>		<b>879.6386</b>

**3.17 Right of way restoration and cleanup - 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	lb/day										lb/day					
Fugitive Dust					0.1293	0.0000	0.1293	0.0140	0.0000	0.0140			0.0000			0.0000
Off-Road	0.9800	18.9475	22.8457	0.0401		0.7539	0.7539		0.7539	0.7539	0.0000	4,097.4456	4,097.4456	1.2555		4,123.8100
<b>Total</b>	<b>0.9800</b>	<b>18.9475</b>	<b>22.8457</b>	<b>0.0401</b>	<b>0.1293</b>	<b>0.7539</b>	<b>0.8831</b>	<b>0.0140</b>	<b>0.7539</b>	<b>0.7678</b>	<b>0.0000</b>	<b>4,097.4456</b>	<b>4,097.4456</b>	<b>1.2555</b>		<b>4,123.8100</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1090	1.7927	0.8076	5.8900e-003	0.1767	0.0320	0.2088	0.0504	0.0295	0.0798		584.5757	584.5757	3.8400e-003		584.6564
Worker	0.0470	0.1211	1.2935	3.6700e-003	0.2964	1.9200e-003	0.2983	0.0786	1.7700e-003	0.0803		294.6980	294.6980	0.0135		294.9823
<b>Total</b>	<b>0.1561</b>	<b>1.9137</b>	<b>2.1011</b>	<b>9.5600e-003</b>	<b>0.4731</b>	<b>0.0339</b>	<b>0.5070</b>	<b>0.1289</b>	<b>0.0312</b>	<b>0.1602</b>		<b>879.2737</b>	<b>879.2737</b>	<b>0.0174</b>		<b>879.6386</b>

**3.17 Right of way 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	lb/day										lb/day					
Fugitive Dust					0.3315	0.0000	0.3315	0.0358	0.0000	0.0358			0.0000			0.0000
Off-Road	2.6291	27.8867	15.4682	0.0401		1.1441	1.1441		1.0525	1.0525		4,031.596 2	4,031.596 2	1.2551		4,057.953 1
<b>Total</b>	<b>2.6291</b>	<b>27.8867</b>	<b>15.4682</b>	<b>0.0401</b>	<b>0.3315</b>	<b>1.1441</b>	<b>1.4756</b>	<b>0.0358</b>	<b>1.0525</b>	<b>1.0883</b>		<b>4,031.596 2</b>	<b>4,031.596 2</b>	<b>1.2551</b>		<b>4,057.953 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1040	1.5983	0.7644	5.8800e-003	0.1767	0.0298	0.2065	0.0504	0.0274	0.0777		574.5110	574.5110	3.7300e-003		574.5893
Worker	0.0415	0.1106	1.1734	3.6700e-003	0.2964	1.8700e-003	0.2982	0.0786	1.7300e-003	0.0803		283.6396	283.6396	0.0126		283.9047
<b>Total</b>	<b>0.1455</b>	<b>1.7090</b>	<b>1.9378</b>	<b>9.5500e-003</b>	<b>0.4731</b>	<b>0.0316</b>	<b>0.5047</b>	<b>0.1289</b>	<b>0.0291</b>	<b>0.1580</b>		<b>858.1506</b>	<b>858.1506</b>	<b>0.0164</b>		<b>858.4940</b>

**3.17 Right of way 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	lb/day										lb/day					
Fugitive Dust					0.1293	0.0000	0.1293	0.0140	0.0000	0.0140			0.0000			0.0000
Off-Road	0.9800	18.9475	22.8457	0.0401		0.7539	0.7539		0.7539	0.7539	0.0000	4,031.596 2	4,031.596 2	1.2551		4,057.953 1
<b>Total</b>	<b>0.9800</b>	<b>18.9475</b>	<b>22.8457</b>	<b>0.0401</b>	<b>0.1293</b>	<b>0.7539</b>	<b>0.8831</b>	<b>0.0140</b>	<b>0.7539</b>	<b>0.7678</b>	<b>0.0000</b>	<b>4,031.596 2</b>	<b>4,031.596 2</b>	<b>1.2551</b>		<b>4,057.953 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1040	1.5983	0.7644	5.8800e-003	0.1767	0.0298	0.2065	0.0504	0.0274	0.0777		574.5110	574.5110	3.7300e-003		574.5893
Worker	0.0415	0.1106	1.1734	3.6700e-003	0.2964	1.8700e-003	0.2982	0.0786	1.7300e-003	0.0803		283.6396	283.6396	0.0126		283.9047
<b>Total</b>	<b>0.1455</b>	<b>1.7090</b>	<b>1.9378</b>	<b>9.5500e-003</b>	<b>0.4731</b>	<b>0.0316</b>	<b>0.5047</b>	<b>0.1289</b>	<b>0.0291</b>	<b>0.1580</b>		<b>858.1506</b>	<b>858.1506</b>	<b>0.0164</b>		<b>858.4940</b>

**3.18 Test cable splices - 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	lb/day										lb/day					
Off-Road	0.4304	3.7311	2.6073	3.1600e-003		0.3068	0.3068		0.2823	0.2823		323.5275	323.5275	0.0991		325.6092
<b>Total</b>	<b>0.4304</b>	<b>3.7311</b>	<b>2.6073</b>	<b>3.1600e-003</b>		<b>0.3068</b>	<b>0.3068</b>		<b>0.2823</b>	<b>0.2823</b>		<b>323.5275</b>	<b>323.5275</b>	<b>0.0991</b>		<b>325.6092</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0235	0.0605	0.6467	1.8400e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		147.3490	147.3490	6.7700e-003		147.4911
<b>Total</b>	<b>0.0235</b>	<b>0.0605</b>	<b>0.6467</b>	<b>1.8400e-003</b>	<b>0.1482</b>	<b>9.6000e-004</b>	<b>0.1491</b>	<b>0.0393</b>	<b>8.9000e-004</b>	<b>0.0402</b>		<b>147.3490</b>	<b>147.3490</b>	<b>6.7700e-003</b>		<b>147.4911</b>

**3.18 Test cable splices - 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	lb/day										lb/day					
Off-Road	0.0783	1.7868	2.4129	3.1600e-003		0.1252	0.1252		0.1252	0.1252	0.0000	323.5275	323.5275	0.0991		325.6092
<b>Total</b>	<b>0.0783</b>	<b>1.7868</b>	<b>2.4129</b>	<b>3.1600e-003</b>		<b>0.1252</b>	<b>0.1252</b>		<b>0.1252</b>	<b>0.1252</b>	<b>0.0000</b>	<b>323.5275</b>	<b>323.5275</b>	<b>0.0991</b>		<b>325.6092</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0235	0.0605	0.6467	1.8400e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		147.3490	147.3490	6.7700e-003		147.4911
<b>Total</b>	<b>0.0235</b>	<b>0.0605</b>	<b>0.6467</b>	<b>1.8400e-003</b>	<b>0.1482</b>	<b>9.6000e-004</b>	<b>0.1491</b>	<b>0.0393</b>	<b>8.9000e-004</b>	<b>0.0402</b>		<b>147.3490</b>	<b>147.3490</b>	<b>6.7700e-003</b>		<b>147.4911</b>

## Suncrest Reactive Power Support Project San Diego County, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	90.00	1000sqft	12.21	90,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2018
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Lot acreage set to 12.59

Construction Phase - Construction Schedule updated to reflect current best case start date

Off-road Equipment - Equipment Roster

Off-road Equipment - Splice truck

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Test truck

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Off-road Equipment - Equipment Roster

Trips and VMT - 3,600 cubic yards of spoils will need to be hauled offsite = 450 trips \* 8 cubic yards/trip

Grading -

Vehicle Trips - Assumes one (1) trip per day

Water And Wastewater - Unmanned facility, No planned indoor water use

Solid Waste - Unmanned facility, No solid waste generation

Land Use Change -

Construction Off-road Equipment Mitigation - All Engines are assumed to comply with Tier 3 diesel engine standards

Area Mitigation - Low VOC paint



## **2.0 Emissions Summary**

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### **3.0 Construction Detail**

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#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Field Survey	Site Preparation	3/1/2017	3/15/2017	7	15	Surveying includes setting up survey equipment, taking measurements, and installing stakes
2	SDG&E Site preparation	Site Preparation	4/1/2017	5/31/2017	7	61	SDG&E Site preparation phase
3	SVC Site Grading	Grading	4/1/2017	4/30/2017	7	30	Site earthwork and grading.
4	Trenching	Trenching	4/1/2017	7/10/2017	7	101	Trench will be approximately 30" wide by 60" deep.
5	Set SVC Substation Foundations	Building Construction	5/1/2017	6/20/2017	7	51	Auguring holes, removing soil, and foundation forming.
6	Material delivery	Building Construction	5/7/2017	8/15/2017	7	101	Material haul, transporting material to the site.
7	Substation construction	Building Construction	5/31/2017	10/8/2017	7	131	Install equipment, structural steel and bus work.
8	Structure Erection	Building Construction	6/1/2017	8/14/2017	7	75	SDG&E Suncrest Substation Structure and Equipment erection
9	Install Vaults	Building Construction	7/11/2017	8/9/2017	7	30	Excavate hole for vault, install vault sections, backfill with concrete
10	Install Transmission line foundations	Building Construction	7/31/2017	8/31/2017	7	32	Foundation installation includes auguring holes, remove soil and foundation formation.
11	Install duct package	Building Construction	8/10/2017	9/28/2017	7	50	Install approximately 100 feet of duct/day
12	Wire Stringing	Building Construction	8/15/2017	9/4/2017	5	15	Wire Stringing into SDG&E Suncrest Substation
13	Transformer & SVC Delivery	Building Construction	8/16/2017	8/30/2017	7	15	Install transformer and SVC
14	Pull cable	Building Construction	9/29/2017	10/19/2017	7	21	6 pulls at 850feet each
15	Install cable splices	Building Construction	10/20/2017	11/20/2017	7	32	Install cable splice. Assume 16 hours/day
16	Right of way restoration and cleanup	Site Preparation	11/13/2017	1/13/2018	7	62	Restore back to natural state, removing culverts, restoring original grade, seeding area with native plants
17	Test cable splices	Building Construction	11/21/2017	11/22/2017	7	2	Test cable splices per accepted standards and techniques.

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Field Survey	Off-Highway Trucks	0	10.00	400	0.38
Field Survey	Rubber Tired Dozers	0	8.00	255	0.40
Field Survey	Tractors/Loaders/Backhoes	0	8.00	97	0.37
SDG&E Site preparation	Bore/Drill Rigs	1	5.00	205	0.50
SDG&E Site preparation	Cranes	1	2.50	226	0.29
SDG&E Site preparation	Excavators	1	7.00	162	0.38
SDG&E Site preparation	Off-Highway Trucks	2	10.00	400	0.38
SDG&E Site preparation	Off-Highway Trucks	2	3.00	400	0.38
SDG&E Site preparation	Rubber Tired Dozers	0	8.00	255	0.40
SDG&E Site preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
SVC Site Grading	Dumpers/Tenders	1	9.00	16	0.38
SVC Site Grading	Dumpers/Tenders	10	5.00	16	0.38
SVC Site Grading	Excavators	0	8.00	162	0.38
SVC Site Grading	Graders	1	9.00	174	0.41
SVC Site Grading	Off-Highway Trucks	1	10.00	400	0.38
SVC Site Grading	Rollers	2	5.00	80	0.38
SVC Site Grading	Rubber Tired Dozers	1	9.00	255	0.40
SVC Site Grading	Rubber Tired Loaders	1	9.00	199	0.36
SVC Site Grading	Scrapers	0	8.00	361	0.48
SVC Site Grading	Tractors/Loaders/Backhoes	1	9.00	97	0.37
Trenching	Dumpers/Tenders	1	10.00	16	0.38
Trenching	Off-Highway Trucks	1	10.00	400	0.38
Trenching	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Trenching	Trenchers	1	10.00	80	0.50

Set SVC Substation Foundations	Bore/Drill Rigs	1	5.00	205	0.50
Set SVC Substation Foundations	Cranes	1	3.00	226	0.29
Set SVC Substation Foundations	Excavators	1	9.00	162	0.38
Set SVC Substation Foundations	Forklifts	0	8.00	89	0.20
Set SVC Substation Foundations	Generator Sets	1	8.00	84	0.74
Set SVC Substation Foundations	Off-Highway Trucks	1	10.00	400	0.38
Set SVC Substation Foundations	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Set SVC Substation Foundations	Welders	0	8.00	46	0.45
Material delivery	Cranes	2	5.00	226	0.29
Material delivery	Forklifts	1	5.00	89	0.20
Material delivery	Generator Sets	0	8.00	84	0.74
Material delivery	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Material delivery	Welders	0	8.00	46	0.45
Substation construction	Cranes	1	7.50	226	0.29
Substation construction	Forklifts	0	8.00	89	0.20
Substation construction	Generator Sets	1	8.00	84	0.74
Substation construction	Off-Highway Trucks	2	10.00	400	0.38
Substation construction	Off-Highway Trucks	2	5.00	400	0.38
Substation construction	Tractors/Loaders/Backhoes	1	2.50	97	0.37
Substation construction	Welders	0	8.00	46	0.45
Structure Erection	Cranes	2	5.00	226	0.29
Structure Erection	Forklifts	0	8.00	89	0.20
Structure Erection	Generator Sets	1	8.00	84	0.74
Structure Erection	Off-Highway Trucks	5	10.00	400	0.38
Structure Erection	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Structure Erection	Welders	0	8.00	46	0.45
Install Vaults	Cranes	0	7.00	226	0.29
Install Vaults	Forklifts	0	8.00	89	0.20

Install Vaults	Generator Sets	1	8.00	84	0.74
Install Vaults	Off-Highway Trucks	3	10.00	400	0.38
Install Vaults	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Install Vaults	Welders	0	8.00	46	0.45
Install Transmission line foundations	Bore/Drill Rigs	1	5.00	205	0.50
Install Transmission line foundations	Cranes	1	2.50	226	0.29
Install Transmission line foundations	Excavators	1	7.00	162	0.38
Install Transmission line foundations	Forklifts	0	8.00	89	0.20
Install Transmission line foundations	Generator Sets	1	8.00	84	0.74
Install Transmission line foundations	Off-Highway Trucks	2	10.00	400	0.38
Install Transmission line foundations	Off-Highway Trucks	2	3.00	400	0.38
Install Transmission line foundations	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install Transmission line foundations	Welders	0	8.00	46	0.45
Install duct package	Cranes	0	7.00	226	0.29
Install duct package	Forklifts	0	8.00	89	0.20
Install duct package	Generator Sets	1	8.00	84	0.74
Install duct package	Off-Highway Trucks	2	7.50	400	0.38
Install duct package	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install duct package	Welders	0	8.00	46	0.45
Wire Stringing	Cranes	1	1.00	226	0.29
Wire Stringing	Forklifts	0	8.00	89	0.20
Wire Stringing	Generator Sets	0	8.00	84	0.74
Wire Stringing	Off-Highway Trucks	3	10.00	400	0.38
Wire Stringing	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Wire Stringing	Welders	0	8.00	46	0.45
Transformer & SVC Delivery	Cranes	1	2.50	226	0.29
Transformer & SVC Delivery	Forklifts	0	8.00	89	0.20
Transformer & SVC Delivery	Generator Sets	0	8.00	84	0.74

Transformer & SVC Delivery	Tractors/Loaders/Backhoes	1	2.50	97	0.37
Transformer & SVC Delivery	Welders	0	8.00	46	0.45
Pull cable	Cranes	0	7.00	226	0.29
Pull cable	Forklifts	0	8.00	89	0.20
Pull cable	Generator Sets	0	8.00	84	0.74
Pull cable	Off-Highway Trucks	1	10.00	400	0.38
Pull cable	Other General Industrial Equipment	3	10.00	87	0.34
Pull cable	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pull cable	Welders	0	8.00	46	0.45
Install cable splices	Cranes	0	7.00	226	0.29
Install cable splices	Forklifts	0	8.00	89	0.20
Install cable splices	Generator Sets	0	8.00	84	0.74
Install cable splices	Other Material Handling Equipment	1	16.00	167	0.40
Install cable splices	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Install cable splices	Welders	0	8.00	46	0.45
Right of way restoration and cleanup	Excavators	1	5.00	162	0.38
Right of way restoration and cleanup	Graders	1	5.00	174	0.41
Right of way restoration and cleanup	Off-Highway Trucks	1	10.00	400	0.38
Right of way restoration and cleanup	Off-Highway Trucks	1	10.00	400	0.38
Right of way restoration and cleanup	Rubber Tired Dozers	0	8.00	255	0.40
Right of way restoration and cleanup	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Test cable splices	Cranes	0	7.00	226	0.29
Test cable splices	Forklifts	0	8.00	89	0.20
Test cable splices	Generator Sets	0	8.00	84	0.74
Test cable splices	Other General Industrial Equipment	1	10.00	87	0.34
Test cable splices	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Test cable splices	Welders	0	8.00	46	0.45



**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
Field Survey	0	3.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
SDG&E Site preparation	7	9.00	5.00	0.00	65.00	91.00	65.00	LD_Mix	HDT_Mix	HHDT
SVC Site Grading	18	18.00	12.00	450.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Set SVC Substation Foundations	5	6.00	2.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Material delivery	4	3.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Substation construction	7	8.00	6.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Structure Erection	9	10.00	9.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install Vaults	5	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install Transmission line foundations	8	10.00	5.00	0.00	65.00	143.00	65.00	LD_Mix	HDT_Mix	HHDT
Install duct package	3	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Wire Stringing	5	23.00	6.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Transformer & SVC Delivery	2	5.00	1.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Pull cable	4	10.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Install cable splices	1	5.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Right of way restoration and cleanup	4	6.00	3.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT
Test cable splices	1	3.00	0.00	0.00	65.00	65.00	65.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

### 3.2 Field 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0377	0.6180	0.3049	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8300e-003	0.0266		194.6782	194.6782	1.2900e-003		194.7052
Worker	0.0233	0.0679	0.5870	1.7200e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		138.2345	138.2345	6.7700e-003		138.3767
<b>Total</b>	<b>0.0610</b>	<b>0.6859</b>	<b>0.8920</b>	<b>3.6800e-003</b>	<b>0.2071</b>	<b>0.0116</b>	<b>0.2187</b>	<b>0.0561</b>	<b>0.0107</b>	<b>0.0668</b>		<b>332.9127</b>	<b>332.9127</b>	<b>8.0600e-003</b>		<b>333.0818</b>

### 3.2 Field 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0377	0.6180	0.3049	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8300e-003	0.0266		194.6782	194.6782	1.2900e-003		194.7052
Worker	0.0233	0.0679	0.5870	1.7200e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		138.2345	138.2345	6.7700e-003		138.3767
<b>Total</b>	<b>0.0610</b>	<b>0.6859</b>	<b>0.8920</b>	<b>3.6800e-003</b>	<b>0.2071</b>	<b>0.0116</b>	<b>0.2187</b>	<b>0.0561</b>	<b>0.0107</b>	<b>0.0668</b>		<b>332.9127</b>	<b>332.9127</b>	<b>8.0600e-003</b>		<b>333.0818</b>

**3.3 SDG&E 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.5494	40.7294	20.3274	0.0546		1.5485	1.5485		1.4246	1.4246		5,581.1553	5,581.1553	1.7101		5,617.0665
<b>Total</b>	<b>3.5494</b>	<b>40.7294</b>	<b>20.3274</b>	<b>0.0546</b>	<b>0.0000</b>	<b>1.5485</b>	<b>1.5485</b>	<b>0.0000</b>	<b>1.4246</b>	<b>1.4246</b>		<b>5,581.1553</b>	<b>5,581.1553</b>	<b>1.7101</b>		<b>5,617.0665</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2487	4.2871	1.8921	0.0137	0.4123	0.0747	0.4870	0.1175	0.0687	0.1862		1,359.5669	1,359.5669	8.9200e-003		1,359.7542
Worker	0.0698	0.2036	1.7611	5.1600e-003	0.4445	2.8800e-003	0.4474	0.1179	2.6600e-003	0.1205		414.7036	414.7036	0.0203		415.1300
<b>Total</b>	<b>0.3185</b>	<b>4.4907</b>	<b>3.6532</b>	<b>0.0189</b>	<b>0.8568</b>	<b>0.0775</b>	<b>0.9344</b>	<b>0.2353</b>	<b>0.0714</b>	<b>0.3067</b>		<b>1,774.2705</b>	<b>1,774.2705</b>	<b>0.0292</b>		<b>1,774.8842</b>

### 3.3 SDG&E 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3385	25.8768	30.0449	0.0546		1.0043	1.0043		1.0043	1.0043	0.0000	5,581.155 3	5,581.155 3	1.7101		5,617.066 5
<b>Total</b>	<b>1.3385</b>	<b>25.8768</b>	<b>30.0449</b>	<b>0.0546</b>	<b>0.0000</b>	<b>1.0043</b>	<b>1.0043</b>	<b>0.0000</b>	<b>1.0043</b>	<b>1.0043</b>	<b>0.0000</b>	<b>5,581.155 3</b>	<b>5,581.155 3</b>	<b>1.7101</b>		<b>5,617.066 5</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2487	4.2871	1.8921	0.0137	0.4123	0.0747	0.4870	0.1175	0.0687	0.1862		1,359.566 9	1,359.566 9	8.9200e- 003		1,359.754 2
Worker	0.0698	0.2036	1.7611	5.1600e- 003	0.4445	2.8800e- 003	0.4474	0.1179	2.6600e- 003	0.1205		414.7036	414.7036	0.0203		415.1300
<b>Total</b>	<b>0.3185</b>	<b>4.4907</b>	<b>3.6532</b>	<b>0.0189</b>	<b>0.8568</b>	<b>0.0775</b>	<b>0.9344</b>	<b>0.2353</b>	<b>0.0714</b>	<b>0.3067</b>		<b>1,774.270 5</b>	<b>1,774.270 5</b>	<b>0.0292</b>		<b>1,774.884 2</b>

**3.4 SVC Site Grading - 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	lb/day										lb/day					
Fugitive Dust					7.3884	0.0000	7.3884	3.7910	0.0000	3.7910			0.0000			0.0000
Off-Road	5.3189	55.2405	31.5294	0.0526		2.6408	2.6408		2.4404	2.4404		5,269.0463	5,269.0463	1.5258		5,301.0871
<b>Total</b>	<b>5.3189</b>	<b>55.2405</b>	<b>31.5294</b>	<b>0.0526</b>	<b>7.3884</b>	<b>2.6408</b>	<b>10.0293</b>	<b>3.7910</b>	<b>2.4404</b>	<b>6.2314</b>		<b>5,269.0463</b>	<b>5,269.0463</b>	<b>1.5258</b>		<b>5,301.0871</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6559	11.8521	5.8379	0.0357	0.8488	0.1627	1.0115	0.2324	0.1497	0.3820		3,548.6590	3,548.6590	0.0234		3,549.1497
Vendor	0.4526	7.4163	3.6590	0.0235	0.7069	0.1282	0.8351	0.2014	0.1180	0.3194		2,336.1379	2,336.1379	0.0154		2,336.4618
Worker	0.1396	0.4072	3.5222	0.0103	0.8890	5.7600e-003	0.8948	0.2357	5.3100e-003	0.2410		829.4071	829.4071	0.0406		830.2600
<b>Total</b>	<b>1.2481</b>	<b>19.6756</b>	<b>13.0191</b>	<b>0.0696</b>	<b>2.4447</b>	<b>0.2967</b>	<b>2.7414</b>	<b>0.6695</b>	<b>0.2730</b>	<b>0.9424</b>		<b>6,714.2041</b>	<b>6,714.2041</b>	<b>0.0794</b>		<b>6,715.8715</b>

### 3.4 SVC Site Grading - 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	lb/day										lb/day					
Fugitive Dust					2.8815	0.0000	2.8815	1.4785	0.0000	1.4785			0.0000			0.0000
Off-Road	1.1513	22.8390	28.0224	0.0526		1.0220	1.0220		1.0220	1.0220	0.0000	5,269.0463	5,269.0463	1.5258		5,301.0871
<b>Total</b>	<b>1.1513</b>	<b>22.8390</b>	<b>28.0224</b>	<b>0.0526</b>	<b>2.8815</b>	<b>1.0220</b>	<b>3.9035</b>	<b>1.4785</b>	<b>1.0220</b>	<b>2.5005</b>	<b>0.0000</b>	<b>5,269.0463</b>	<b>5,269.0463</b>	<b>1.5258</b>		<b>5,301.0871</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6559	11.8521	5.8379	0.0357	0.8488	0.1627	1.0115	0.2324	0.1497	0.3820		3,548.6590	3,548.6590	0.0234		3,549.1497
Vendor	0.4526	7.4163	3.6590	0.0235	0.7069	0.1282	0.8351	0.2014	0.1180	0.3194		2,336.1379	2,336.1379	0.0154		2,336.4618
Worker	0.1396	0.4072	3.5222	0.0103	0.8890	5.7600e-003	0.8948	0.2357	5.3100e-003	0.2410		829.4071	829.4071	0.0406		830.2600
<b>Total</b>	<b>1.2481</b>	<b>19.6756</b>	<b>13.0191</b>	<b>0.0696</b>	<b>2.4447</b>	<b>0.2967</b>	<b>2.7414</b>	<b>0.6695</b>	<b>0.2730</b>	<b>0.9424</b>		<b>6,714.2041</b>	<b>6,714.2041</b>	<b>0.0794</b>		<b>6,715.8715</b>

### 3.5 Trenching - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2496	22.5721	12.6621	0.0256		1.2268	1.2268		1.1305	1.1305		2,597.0155	2,597.0155	0.7807		2,613.4100
<b>Total</b>	<b>2.2496</b>	<b>22.5721</b>	<b>12.6621</b>	<b>0.0256</b>		<b>1.2268</b>	<b>1.2268</b>		<b>1.1305</b>	<b>1.1305</b>		<b>2,597.0155</b>	<b>2,597.0155</b>	<b>0.7807</b>		<b>2,613.4100</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0388</b>	<b>0.1131</b>	<b>0.9784</b>	<b>2.8700e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>230.3909</b>	<b>230.3909</b>	<b>0.0113</b>		<b>230.6278</b>



### 3.5 Trenching - 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	lb/day										lb/day					
Off-Road	0.6029	12.3586	14.9031	0.0256		0.6161	0.6161		0.6161	0.6161	0.0000	2,597.0155	2,597.0155	0.7807		2,613.4100
<b>Total</b>	<b>0.6029</b>	<b>12.3586</b>	<b>14.9031</b>	<b>0.0256</b>		<b>0.6161</b>	<b>0.6161</b>		<b>0.6161</b>	<b>0.6161</b>	<b>0.0000</b>	<b>2,597.0155</b>	<b>2,597.0155</b>	<b>0.7807</b>		<b>2,613.4100</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0388</b>	<b>0.1131</b>	<b>0.9784</b>	<b>2.8700e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>230.3909</b>	<b>230.3909</b>	<b>0.0113</b>		<b>230.6278</b>

### 3.6 Set SVC Substation Foundations - 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	lb/day										lb/day					
Off-Road	2.5066	27.0099	15.7578	0.0366		1.1896	1.1896		1.1184	1.1184		3,687.0578	3,687.0578	0.9892		3,707.8318
<b>Total</b>	<b>2.5066</b>	<b>27.0099</b>	<b>15.7578</b>	<b>0.0366</b>		<b>1.1896</b>	<b>1.1896</b>		<b>1.1184</b>	<b>1.1184</b>		<b>3,687.0578</b>	<b>3,687.0578</b>	<b>0.9892</b>		<b>3,707.8318</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0754	1.2361	0.6098	3.9200e-003	0.1178	0.0214	0.1392	0.0336	0.0197	0.0532		389.3563	389.3563	2.5700e-003		389.4103
Worker	0.0465	0.1358	1.1741	3.4400e-003	0.2964	1.9200e-003	0.2983	0.0786	1.7700e-003	0.0803		276.4690	276.4690	0.0135		276.7533
<b>Total</b>	<b>0.1220</b>	<b>1.3718</b>	<b>1.7839</b>	<b>7.3600e-003</b>	<b>0.4142</b>	<b>0.0233</b>	<b>0.4375</b>	<b>0.1121</b>	<b>0.0214</b>	<b>0.1336</b>		<b>665.8254</b>	<b>665.8254</b>	<b>0.0161</b>		<b>666.1636</b>

### 3.6 Set SVC Substation Foundations - 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	lb/day										lb/day					
Off-Road	0.8679	17.2390	21.3531	0.0366		0.7798	0.7798		0.7798	0.7798	0.0000	3,687.0578	3,687.0578	0.9892		3,707.8318
<b>Total</b>	<b>0.8679</b>	<b>17.2390</b>	<b>21.3531</b>	<b>0.0366</b>		<b>0.7798</b>	<b>0.7798</b>		<b>0.7798</b>	<b>0.7798</b>	<b>0.0000</b>	<b>3,687.0578</b>	<b>3,687.0578</b>	<b>0.9892</b>		<b>3,707.8318</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0754	1.2361	0.6098	3.9200e-003	0.1178	0.0214	0.1392	0.0336	0.0197	0.0532		389.3563	389.3563	2.5700e-003		389.4103
Worker	0.0465	0.1358	1.1741	3.4400e-003	0.2964	1.9200e-003	0.2983	0.0786	1.7700e-003	0.0803		276.4690	276.4690	0.0135		276.7533
<b>Total</b>	<b>0.1220</b>	<b>1.3718</b>	<b>1.7839</b>	<b>7.3600e-003</b>	<b>0.4142</b>	<b>0.0233</b>	<b>0.4375</b>	<b>0.1121</b>	<b>0.0214</b>	<b>0.1336</b>		<b>665.8254</b>	<b>665.8254</b>	<b>0.0161</b>		<b>666.1636</b>

### 3.7 Material delivery - 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	lb/day										lb/day					
Off-Road	1.1398	12.6602	5.7223	9.9500e-003		0.6660	0.6660		0.6127	0.6127		1,018.1223	1,018.1223	0.3120		1,024.6733
<b>Total</b>	<b>1.1398</b>	<b>12.6602</b>	<b>5.7223</b>	<b>9.9500e-003</b>		<b>0.6660</b>	<b>0.6660</b>		<b>0.6127</b>	<b>0.6127</b>		<b>1,018.1223</b>	<b>1,018.1223</b>	<b>0.3120</b>		<b>1,024.6733</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0377	0.6180	0.3049	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8300e-003	0.0266		194.6782	194.6782	1.2900e-003		194.7052
Worker	0.0233	0.0679	0.5870	1.7200e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		138.2345	138.2345	6.7700e-003		138.3767
<b>Total</b>	<b>0.0610</b>	<b>0.6859</b>	<b>0.8920</b>	<b>3.6800e-003</b>	<b>0.2071</b>	<b>0.0116</b>	<b>0.2187</b>	<b>0.0561</b>	<b>0.0107</b>	<b>0.0668</b>		<b>332.9127</b>	<b>332.9127</b>	<b>8.0600e-003</b>		<b>333.0818</b>

**3.7 Material delivery - 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	lb/day										lb/day					
Off-Road	0.2444	4.9738	5.9465	9.9500e-003		0.2408	0.2408		0.2408	0.2408	0.0000	1,018.1223	1,018.1223	0.3120		1,024.6733
<b>Total</b>	<b>0.2444</b>	<b>4.9738</b>	<b>5.9465</b>	<b>9.9500e-003</b>		<b>0.2408</b>	<b>0.2408</b>		<b>0.2408</b>	<b>0.2408</b>	<b>0.0000</b>	<b>1,018.1223</b>	<b>1,018.1223</b>	<b>0.3120</b>		<b>1,024.6733</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0377	0.6180	0.3049	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8300e-003	0.0266		194.6782	194.6782	1.2900e-003		194.7052
Worker	0.0233	0.0679	0.5870	1.7200e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		138.2345	138.2345	6.7700e-003		138.3767
<b>Total</b>	<b>0.0610</b>	<b>0.6859</b>	<b>0.8920</b>	<b>3.6800e-003</b>	<b>0.2071</b>	<b>0.0116</b>	<b>0.2187</b>	<b>0.0561</b>	<b>0.0107</b>	<b>0.0668</b>		<b>332.9127</b>	<b>332.9127</b>	<b>8.0600e-003</b>		<b>333.0818</b>

### 3.8 Substation 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	lb/day										lb/day					
Off-Road	4.5465	49.5064	24.6757	0.0621		2.0625	2.0625		1.9215	1.9215		6,304.6372	6,304.6372	1.7913		6,342.2537
<b>Total</b>	<b>4.5465</b>	<b>49.5064</b>	<b>24.6757</b>	<b>0.0621</b>		<b>2.0625</b>	<b>2.0625</b>		<b>1.9215</b>	<b>1.9215</b>		<b>6,304.6372</b>	<b>6,304.6372</b>	<b>1.7913</b>		<b>6,342.2537</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2263	3.7082	1.8295	0.0118	0.3535	0.0641	0.4176	0.1007	0.0590	0.1597		1,168.0690	1,168.0690	7.7100e-003		1,168.2309
Worker	0.0621	0.1810	1.5654	4.5900e-003	0.3951	2.5600e-003	0.3977	0.1048	2.3600e-003	0.1071		368.6254	368.6254	0.0181		369.0044
<b>Total</b>	<b>0.2883</b>	<b>3.8891</b>	<b>3.3949</b>	<b>0.0164</b>	<b>0.7486</b>	<b>0.0667</b>	<b>0.8153</b>	<b>0.2055</b>	<b>0.0613</b>	<b>0.2668</b>		<b>1,536.6944</b>	<b>1,536.6944</b>	<b>0.0258</b>		<b>1,537.2353</b>

### 3.8 Substation construction - 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	lb/day										lb/day					
Off-Road	1.4917	29.3832	33.7438	0.0621		1.2285	1.2285		1.2285	1.2285	0.0000	6,304.6372	6,304.6372	1.7913		6,342.2537
<b>Total</b>	<b>1.4917</b>	<b>29.3832</b>	<b>33.7438</b>	<b>0.0621</b>		<b>1.2285</b>	<b>1.2285</b>		<b>1.2285</b>	<b>1.2285</b>	<b>0.0000</b>	<b>6,304.6372</b>	<b>6,304.6372</b>	<b>1.7913</b>		<b>6,342.2537</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2263	3.7082	1.8295	0.0118	0.3535	0.0641	0.4176	0.1007	0.0590	0.1597		1,168.0690	1,168.0690	7.7100e-003		1,168.2309
Worker	0.0621	0.1810	1.5654	4.5900e-003	0.3951	2.5600e-003	0.3977	0.1048	2.3600e-003	0.1071		368.6254	368.6254	0.0181		369.0044
<b>Total</b>	<b>0.2883</b>	<b>3.8891</b>	<b>3.3949</b>	<b>0.0164</b>	<b>0.7486</b>	<b>0.0667</b>	<b>0.8153</b>	<b>0.2055</b>	<b>0.0613</b>	<b>0.2668</b>		<b>1,536.6944</b>	<b>1,536.6944</b>	<b>0.0258</b>		<b>1,537.2353</b>

### 3.9 Structure Erection - 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	lb/day										lb/day					
Off-Road	6.9092	76.3061	37.1009	0.0966		3.0680	3.0680		2.8466	2.8466		9,825.7886	9,825.7886	2.8701		9,886.0615
<b>Total</b>	<b>6.9092</b>	<b>76.3061</b>	<b>37.1009</b>	<b>0.0966</b>		<b>3.0680</b>	<b>3.0680</b>		<b>2.8466</b>	<b>2.8466</b>		<b>9,825.7886</b>	<b>9,825.7886</b>	<b>2.8701</b>		<b>9,886.0615</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3394	5.5622	2.7443	0.0177	0.5302	0.0962	0.6264	0.1511	0.0885	0.2395		1,752.1035	1,752.1035	0.0116		1,752.3464
Worker	0.0776	0.2262	1.9568	5.7400e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		460.7817	460.7817	0.0226		461.2556
<b>Total</b>	<b>0.4170</b>	<b>5.7885</b>	<b>4.7010</b>	<b>0.0234</b>	<b>1.0241</b>	<b>0.0994</b>	<b>1.1235</b>	<b>0.2820</b>	<b>0.0914</b>	<b>0.3734</b>		<b>2,212.8852</b>	<b>2,212.8852</b>	<b>0.0341</b>		<b>2,213.6019</b>



### 3.9 Structure Erection - 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	lb/day										lb/day					
Off-Road	2.3346	45.6616	51.9620	0.0966		1.8425	1.8425		1.8425	1.8425	0.0000	9,825.7886	9,825.7886	2.8701		9,886.0615
<b>Total</b>	<b>2.3346</b>	<b>45.6616</b>	<b>51.9620</b>	<b>0.0966</b>		<b>1.8425</b>	<b>1.8425</b>		<b>1.8425</b>	<b>1.8425</b>	<b>0.0000</b>	<b>9,825.7886</b>	<b>9,825.7886</b>	<b>2.8701</b>		<b>9,886.0615</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3394	5.5622	2.7443	0.0177	0.5302	0.0962	0.6264	0.1511	0.0885	0.2395		1,752.1035	1,752.1035	0.0116		1,752.3464
Worker	0.0776	0.2262	1.9568	5.7400e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		460.7817	460.7817	0.0226		461.2556
<b>Total</b>	<b>0.4170</b>	<b>5.7885</b>	<b>4.7010</b>	<b>0.0234</b>	<b>1.0241</b>	<b>0.0994</b>	<b>1.1235</b>	<b>0.2820</b>	<b>0.0914</b>	<b>0.3734</b>		<b>2,212.8852</b>	<b>2,212.8852</b>	<b>0.0341</b>		<b>2,213.6019</b>

**3.10 Install Vaults - 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	lb/day										lb/day					
Off-Road	4.2360	45.1478	24.3359	0.0598		1.9556	1.9556		1.8231	1.8231		6,061.8499	6,061.8499	1.7169		6,097.9043
<b>Total</b>	<b>4.2360</b>	<b>45.1478</b>	<b>24.3359</b>	<b>0.0598</b>		<b>1.9556</b>	<b>1.9556</b>		<b>1.8231</b>	<b>1.8231</b>		<b>6,061.8499</b>	<b>6,061.8499</b>	<b>1.7169</b>		<b>6,097.9043</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0388</b>	<b>0.1131</b>	<b>0.9784</b>	<b>2.8700e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>230.3909</b>	<b>230.3909</b>	<b>0.0113</b>		<b>230.6278</b>

### 3.10 Install Vaults - 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	lb/day										lb/day					
Off-Road	1.4329	28.4950	33.1220	0.0598		1.2471	1.2471		1.2471	1.2471	0.0000	6,061.8499	6,061.8499	1.7169		6,097.9043
<b>Total</b>	<b>1.4329</b>	<b>28.4950</b>	<b>33.1220</b>	<b>0.0598</b>		<b>1.2471</b>	<b>1.2471</b>		<b>1.2471</b>	<b>1.2471</b>	<b>0.0000</b>	<b>6,061.8499</b>	<b>6,061.8499</b>	<b>1.7169</b>		<b>6,097.9043</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0388</b>	<b>0.1131</b>	<b>0.9784</b>	<b>2.8700e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>230.3909</b>	<b>230.3909</b>	<b>0.0113</b>		<b>230.6278</b>

**3.11 Install Transmission line foundations - 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	lb/day										lb/day					
Off-Road	4.1195	45.1936	24.1009	0.0612		1.8489	1.8489		1.7250	1.7250		6,204.1899	6,204.1899	1.7605		6,241.1601
<b>Total</b>	<b>4.1195</b>	<b>45.1936</b>	<b>24.1009</b>	<b>0.0612</b>		<b>1.8489</b>	<b>1.8489</b>		<b>1.7250</b>	<b>1.7250</b>		<b>6,204.1899</b>	<b>6,204.1899</b>	<b>1.7605</b>		<b>6,241.1601</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3690	6.6810	2.6271	0.0215	0.6479	0.1172	0.7650	0.1846	0.1078	0.2924		2,131.9191	2,131.9191	0.0139		2,132.2111
Worker	0.0776	0.2262	1.9568	5.7400e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		460.7817	460.7817	0.0226		461.2556
<b>Total</b>	<b>0.4465</b>	<b>6.9073</b>	<b>4.5839</b>	<b>0.0272</b>	<b>1.1418</b>	<b>0.1204</b>	<b>1.2621</b>	<b>0.3155</b>	<b>0.1107</b>	<b>0.4263</b>		<b>2,592.7008</b>	<b>2,592.7008</b>	<b>0.0365</b>		<b>2,593.4666</b>

**3.11 Install Transmission line foundations - 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	lb/day										lb/day					
Off-Road	1.4700	28.8807	34.1012	0.0612		1.2148	1.2148		1.2148	1.2148	0.0000	6,204.1899	6,204.1899	1.7605		6,241.1601
<b>Total</b>	<b>1.4700</b>	<b>28.8807</b>	<b>34.1012</b>	<b>0.0612</b>		<b>1.2148</b>	<b>1.2148</b>		<b>1.2148</b>	<b>1.2148</b>	<b>0.0000</b>	<b>6,204.1899</b>	<b>6,204.1899</b>	<b>1.7605</b>		<b>6,241.1601</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3690	6.6810	2.6271	0.0215	0.6479	0.1172	0.7650	0.1846	0.1078	0.2924		2,131.9191	2,131.9191	0.0139		2,132.2111
Worker	0.0776	0.2262	1.9568	5.7400e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		460.7817	460.7817	0.0226		461.2556
<b>Total</b>	<b>0.4465</b>	<b>6.9073</b>	<b>4.5839</b>	<b>0.0272</b>	<b>1.1418</b>	<b>0.1204</b>	<b>1.2621</b>	<b>0.3155</b>	<b>0.1107</b>	<b>0.4263</b>		<b>2,592.7008</b>	<b>2,592.7008</b>	<b>0.0365</b>		<b>2,593.4666</b>

**3.12 Install duct package - 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	lb/day										lb/day					
Off-Road	2.2051	22.9036	12.5586	0.0312		0.9849	0.9849		0.9301	0.9301		3,143.5267	3,143.5267	0.8227		3,160.8035
<b>Total</b>	<b>2.2051</b>	<b>22.9036</b>	<b>12.5586</b>	<b>0.0312</b>		<b>0.9849</b>	<b>0.9849</b>		<b>0.9301</b>	<b>0.9301</b>		<b>3,143.5267</b>	<b>3,143.5267</b>	<b>0.8227</b>		<b>3,160.8035</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0388</b>	<b>0.1131</b>	<b>0.9784</b>	<b>2.8700e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>230.3909</b>	<b>230.3909</b>	<b>0.0113</b>		<b>230.6278</b>

**3.12 Install duct package - 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	lb/day										lb/day					
Off-Road	0.7347	14.6655	17.1254	0.0312		0.6528	0.6528		0.6528	0.6528	0.0000	3,143.5267	3,143.5267	0.8227		3,160.8035
<b>Total</b>	<b>0.7347</b>	<b>14.6655</b>	<b>17.1254</b>	<b>0.0312</b>		<b>0.6528</b>	<b>0.6528</b>		<b>0.6528</b>	<b>0.6528</b>	<b>0.0000</b>	<b>3,143.5267</b>	<b>3,143.5267</b>	<b>0.8227</b>		<b>3,160.8035</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0388</b>	<b>0.1131</b>	<b>0.9784</b>	<b>2.8700e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>230.3909</b>	<b>230.3909</b>	<b>0.0113</b>		<b>230.6278</b>

### 3.13 Wire Stringing - 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	lb/day										lb/day					
Off-Road	3.7469	41.6453	20.9069	0.0539		1.6980	1.6980		1.5622	1.5622		5,510.970 1	5,510.970 1	1.6886		5,546.429 7
<b>Total</b>	<b>3.7469</b>	<b>41.6453</b>	<b>20.9069</b>	<b>0.0539</b>		<b>1.6980</b>	<b>1.6980</b>		<b>1.5622</b>	<b>1.5622</b>		<b>5,510.970 1</b>	<b>5,510.970 1</b>	<b>1.6886</b>		<b>5,546.429 7</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2263	3.7082	1.8295	0.0118	0.3535	0.0641	0.4176	0.1007	0.0590	0.1597		1,168.069 0	1,168.069 0	7.7100e- 003		1,168.230 9
Worker	0.1784	0.5204	4.5006	0.0132	1.1360	7.3600e- 003	1.1434	0.3012	6.7900e- 003	0.3080		1,059.798 0	1,059.798 0	0.0519		1,060.887 8
<b>Total</b>	<b>0.4047</b>	<b>4.2285</b>	<b>6.3301</b>	<b>0.0250</b>	<b>1.4895</b>	<b>0.0715</b>	<b>1.5609</b>	<b>0.4019</b>	<b>0.0658</b>	<b>0.4677</b>		<b>2,227.867 0</b>	<b>2,227.867 0</b>	<b>0.0596</b>		<b>2,229.118 7</b>



**3.13 Wire Stringing - 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	lb/day										lb/day					
Off-Road	1.3187	25.8264	29.4413	0.0539		1.0493	1.0493		1.0493	1.0493	0.0000	5,510.970 1	5,510.970 1	1.6886		5,546.429 7
<b>Total</b>	<b>1.3187</b>	<b>25.8264</b>	<b>29.4413</b>	<b>0.0539</b>		<b>1.0493</b>	<b>1.0493</b>		<b>1.0493</b>	<b>1.0493</b>	<b>0.0000</b>	<b>5,510.970 1</b>	<b>5,510.970 1</b>	<b>1.6886</b>		<b>5,546.429 7</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2263	3.7082	1.8295	0.0118	0.3535	0.0641	0.4176	0.1007	0.0590	0.1597		1,168.069 0	1,168.069 0	7.7100e- 003		1,168.230 9
Worker	0.1784	0.5204	4.5006	0.0132	1.1360	7.3600e- 003	1.1434	0.3012	6.7900e- 003	0.3080		1,059.798 0	1,059.798 0	0.0519		1,060.887 8
<b>Total</b>	<b>0.4047</b>	<b>4.2285</b>	<b>6.3301</b>	<b>0.0250</b>	<b>1.4895</b>	<b>0.0715</b>	<b>1.5609</b>	<b>0.4019</b>	<b>0.0658</b>	<b>0.4677</b>		<b>2,227.867 0</b>	<b>2,227.867 0</b>	<b>0.0596</b>		<b>2,229.118 7</b>

### 3.14 Transformer & SVC Delivery - 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	lb/day										lb/day					
Off-Road	0.3015	3.3553	1.6094	2.7300e-003		0.1787	0.1787		0.1644	0.1644		279.8447	279.8447	0.0857		281.6453
<b>Total</b>	<b>0.3015</b>	<b>3.3553</b>	<b>1.6094</b>	<b>2.7300e-003</b>		<b>0.1787</b>	<b>0.1787</b>		<b>0.1644</b>	<b>0.1644</b>		<b>279.8447</b>	<b>279.8447</b>	<b>0.0857</b>		<b>281.6453</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0377	0.6180	0.3049	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8300e-003	0.0266		194.6782	194.6782	1.2900e-003		194.7052
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0765</b>	<b>0.7312</b>	<b>1.2833</b>	<b>4.8300e-003</b>	<b>0.3059</b>	<b>0.0123</b>	<b>0.3182</b>	<b>0.0823</b>	<b>0.0113</b>	<b>0.0936</b>		<b>425.0690</b>	<b>425.0690</b>	<b>0.0126</b>		<b>425.3329</b>

**3.14 Transformer & SVC Delivery - 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	lb/day										lb/day					
Off-Road	0.0671	1.3801	1.6711	2.7300e-003		0.0698	0.0698		0.0698	0.0698	0.0000	279.8447	279.8447	0.0857		281.6453
<b>Total</b>	<b>0.0671</b>	<b>1.3801</b>	<b>1.6711</b>	<b>2.7300e-003</b>		<b>0.0698</b>	<b>0.0698</b>		<b>0.0698</b>	<b>0.0698</b>	<b>0.0000</b>	<b>279.8447</b>	<b>279.8447</b>	<b>0.0857</b>		<b>281.6453</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0377	0.6180	0.3049	1.9600e-003	0.0589	0.0107	0.0696	0.0168	9.8300e-003	0.0266		194.6782	194.6782	1.2900e-003		194.7052
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0765</b>	<b>0.7312</b>	<b>1.2833</b>	<b>4.8300e-003</b>	<b>0.3059</b>	<b>0.0123</b>	<b>0.3182</b>	<b>0.0823</b>	<b>0.0113</b>	<b>0.0936</b>		<b>425.0690</b>	<b>425.0690</b>	<b>0.0126</b>		<b>425.3329</b>

**3.15 Pull cable - 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	lb/day										lb/day					
Off-Road	2.3812	23.4861	13.6785	0.0259		1.3768	1.3768		1.2666	1.2666		2,650.9105	2,650.9105	0.8122		2,667.9674
<b>Total</b>	<b>2.3812</b>	<b>23.4861</b>	<b>13.6785</b>	<b>0.0259</b>		<b>1.3768</b>	<b>1.3768</b>		<b>1.2666</b>	<b>1.2666</b>		<b>2,650.9105</b>	<b>2,650.9105</b>	<b>0.8122</b>		<b>2,667.9674</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0776	0.2262	1.9568	5.7400e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		460.7817	460.7817	0.0226		461.2556
<b>Total</b>	<b>0.0776</b>	<b>0.2262</b>	<b>1.9568</b>	<b>5.7400e-003</b>	<b>0.4939</b>	<b>3.2000e-003</b>	<b>0.4971</b>	<b>0.1309</b>	<b>2.9500e-003</b>	<b>0.1339</b>		<b>460.7817</b>	<b>460.7817</b>	<b>0.0226</b>		<b>461.2556</b>

**3.15 Pull cable - 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	lb/day										lb/day					
Off-Road	0.6369	13.1349	15.9513	0.0259		0.6705	0.6705		0.6705	0.6705	0.0000	2,650.9105	2,650.9105	0.8122		2,667.9674
<b>Total</b>	<b>0.6369</b>	<b>13.1349</b>	<b>15.9513</b>	<b>0.0259</b>		<b>0.6705</b>	<b>0.6705</b>		<b>0.6705</b>	<b>0.6705</b>	<b>0.0000</b>	<b>2,650.9105</b>	<b>2,650.9105</b>	<b>0.8122</b>		<b>2,667.9674</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0776	0.2262	1.9568	5.7400e-003	0.4939	3.2000e-003	0.4971	0.1309	2.9500e-003	0.1339		460.7817	460.7817	0.0226		461.2556
<b>Total</b>	<b>0.0776</b>	<b>0.2262</b>	<b>1.9568</b>	<b>5.7400e-003</b>	<b>0.4939</b>	<b>3.2000e-003</b>	<b>0.4971</b>	<b>0.1309</b>	<b>2.9500e-003</b>	<b>0.1339</b>		<b>460.7817</b>	<b>460.7817</b>	<b>0.0226</b>		<b>461.2556</b>

**3.16 Install cable splices - 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	lb/day										lb/day					
Off-Road	1.0058	10.5753	7.8964	0.0115		0.5605	0.5605		0.5157	0.5157		1,174.5068	1,174.5068	0.3599		1,182.0640
<b>Total</b>	<b>1.0058</b>	<b>10.5753</b>	<b>7.8964</b>	<b>0.0115</b>		<b>0.5605</b>	<b>0.5605</b>		<b>0.5157</b>	<b>0.5157</b>		<b>1,174.5068</b>	<b>1,174.5068</b>	<b>0.3599</b>		<b>1,182.0640</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0388</b>	<b>0.1131</b>	<b>0.9784</b>	<b>2.8700e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>230.3909</b>	<b>230.3909</b>	<b>0.0113</b>		<b>230.6278</b>

**3.16 Install cable splices - 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	lb/day										lb/day					
Off-Road	0.2828	5.4666	8.7183	0.0115		0.2639	0.2639		0.2639	0.2639	0.0000	1,174.5068	1,174.5068	0.3599		1,182.0640
<b>Total</b>	<b>0.2828</b>	<b>5.4666</b>	<b>8.7183</b>	<b>0.0115</b>		<b>0.2639</b>	<b>0.2639</b>		<b>0.2639</b>	<b>0.2639</b>	<b>0.0000</b>	<b>1,174.5068</b>	<b>1,174.5068</b>	<b>0.3599</b>		<b>1,182.0640</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0388	0.1131	0.9784	2.8700e-003	0.2470	1.6000e-003	0.2486	0.0655	1.4800e-003	0.0670		230.3909	230.3909	0.0113		230.6278
<b>Total</b>	<b>0.0388</b>	<b>0.1131</b>	<b>0.9784</b>	<b>2.8700e-003</b>	<b>0.2470</b>	<b>1.6000e-003</b>	<b>0.2486</b>	<b>0.0655</b>	<b>1.4800e-003</b>	<b>0.0670</b>		<b>230.3909</b>	<b>230.3909</b>	<b>0.0113</b>		<b>230.6278</b>

**3.17 Right of way restoration and cleanup - 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	lb/day										lb/day					
Fugitive Dust					0.3315	0.0000	0.3315	0.0358	0.0000	0.0358			0.0000			0.0000
Off-Road	3.0017	33.1222	16.8754	0.0401		1.3747	1.3747		1.2647	1.2647		4,097.4456	4,097.4456	1.2555		4,123.8100
<b>Total</b>	<b>3.0017</b>	<b>33.1222</b>	<b>16.8754</b>	<b>0.0401</b>	<b>0.3315</b>	<b>1.3747</b>	<b>1.7062</b>	<b>0.0358</b>	<b>1.2647</b>	<b>1.3005</b>		<b>4,097.4456</b>	<b>4,097.4456</b>	<b>1.2555</b>		<b>4,123.8100</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1131	1.8541	0.9148	5.8900e-003	0.1767	0.0321	0.2088	0.0504	0.0295	0.0799		584.0345	584.0345	3.8600e-003		584.1155
Worker	0.0465	0.1358	1.1741	3.4400e-003	0.2964	1.9200e-003	0.2983	0.0786	1.7700e-003	0.0803		276.4690	276.4690	0.0135		276.7533
<b>Total</b>	<b>0.1597</b>	<b>1.9898</b>	<b>2.0888</b>	<b>9.3300e-003</b>	<b>0.4731</b>	<b>0.0340</b>	<b>0.5071</b>	<b>0.1289</b>	<b>0.0313</b>	<b>0.1602</b>		<b>860.5035</b>	<b>860.5035</b>	<b>0.0174</b>		<b>860.8688</b>



**3.17 Right of way restoration and cleanup - 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	lb/day										lb/day					
Fugitive Dust					0.1293	0.0000	0.1293	0.0140	0.0000	0.0140			0.0000			0.0000
Off-Road	0.9800	18.9475	22.8457	0.0401		0.7539	0.7539		0.7539	0.7539	0.0000	4,097.4456	4,097.4456	1.2555		4,123.8100
<b>Total</b>	<b>0.9800</b>	<b>18.9475</b>	<b>22.8457</b>	<b>0.0401</b>	<b>0.1293</b>	<b>0.7539</b>	<b>0.8831</b>	<b>0.0140</b>	<b>0.7539</b>	<b>0.7678</b>	<b>0.0000</b>	<b>4,097.4456</b>	<b>4,097.4456</b>	<b>1.2555</b>		<b>4,123.8100</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1131	1.8541	0.9148	5.8900e-003	0.1767	0.0321	0.2088	0.0504	0.0295	0.0799		584.0345	584.0345	3.8600e-003		584.1155
Worker	0.0465	0.1358	1.1741	3.4400e-003	0.2964	1.9200e-003	0.2983	0.0786	1.7700e-003	0.0803		276.4690	276.4690	0.0135		276.7533
<b>Total</b>	<b>0.1597</b>	<b>1.9898</b>	<b>2.0888</b>	<b>9.3300e-003</b>	<b>0.4731</b>	<b>0.0340</b>	<b>0.5071</b>	<b>0.1289</b>	<b>0.0313</b>	<b>0.1602</b>		<b>860.5035</b>	<b>860.5035</b>	<b>0.0174</b>		<b>860.8688</b>

**3.17 Right of way 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	lb/day										lb/day					
Fugitive Dust					0.3315	0.0000	0.3315	0.0358	0.0000	0.0358			0.0000			0.0000
Off-Road	2.6291	27.8867	15.4682	0.0401		1.1441	1.1441		1.0525	1.0525		4,031.596 2	4,031.596 2	1.2551		4,057.953 1
<b>Total</b>	<b>2.6291</b>	<b>27.8867</b>	<b>15.4682</b>	<b>0.0401</b>	<b>0.3315</b>	<b>1.1441</b>	<b>1.4756</b>	<b>0.0358</b>	<b>1.0525</b>	<b>1.0883</b>		<b>4,031.596 2</b>	<b>4,031.596 2</b>	<b>1.2551</b>		<b>4,057.953 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1077	1.6530	0.8681	5.8800e-003	0.1767	0.0298	0.2065	0.0504	0.0274	0.0778		573.9778	573.9778	3.7400e-003		574.0564
Worker	0.0407	0.1241	1.0576	3.4400e-003	0.2964	1.8700e-003	0.2982	0.0786	1.7300e-003	0.0803		266.0804	266.0804	0.0126		266.3455
<b>Total</b>	<b>0.1484</b>	<b>1.7770</b>	<b>1.9257</b>	<b>9.3200e-003</b>	<b>0.4731</b>	<b>0.0317</b>	<b>0.5047</b>	<b>0.1289</b>	<b>0.0291</b>	<b>0.1581</b>		<b>840.0582</b>	<b>840.0582</b>	<b>0.0164</b>		<b>840.4018</b>

**3.17 Right of way 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	lb/day										lb/day					
Fugitive Dust					0.1293	0.0000	0.1293	0.0140	0.0000	0.0140			0.0000			0.0000
Off-Road	0.9800	18.9475	22.8457	0.0401		0.7539	0.7539		0.7539	0.7539	0.0000	4,031.596 2	4,031.596 2	1.2551		4,057.953 1
<b>Total</b>	<b>0.9800</b>	<b>18.9475</b>	<b>22.8457</b>	<b>0.0401</b>	<b>0.1293</b>	<b>0.7539</b>	<b>0.8831</b>	<b>0.0140</b>	<b>0.7539</b>	<b>0.7678</b>	<b>0.0000</b>	<b>4,031.596 2</b>	<b>4,031.596 2</b>	<b>1.2551</b>		<b>4,057.953 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1077	1.6530	0.8681	5.8800e-003	0.1767	0.0298	0.2065	0.0504	0.0274	0.0778		573.9778	573.9778	3.7400e-003		574.0564
Worker	0.0407	0.1241	1.0576	3.4400e-003	0.2964	1.8700e-003	0.2982	0.0786	1.7300e-003	0.0803		266.0804	266.0804	0.0126		266.3455
<b>Total</b>	<b>0.1484</b>	<b>1.7770</b>	<b>1.9257</b>	<b>9.3200e-003</b>	<b>0.4731</b>	<b>0.0317</b>	<b>0.5047</b>	<b>0.1289</b>	<b>0.0291</b>	<b>0.1581</b>		<b>840.0582</b>	<b>840.0582</b>	<b>0.0164</b>		<b>840.4018</b>

**3.18 Test cable splices - 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	lb/day										lb/day					
Off-Road	0.4304	3.7311	2.6073	3.1600e-003		0.3068	0.3068		0.2823	0.2823		323.5275	323.5275	0.0991		325.6092
<b>Total</b>	<b>0.4304</b>	<b>3.7311</b>	<b>2.6073</b>	<b>3.1600e-003</b>		<b>0.3068</b>	<b>0.3068</b>		<b>0.2823</b>	<b>0.2823</b>		<b>323.5275</b>	<b>323.5275</b>	<b>0.0991</b>		<b>325.6092</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0233	0.0679	0.5870	1.7200e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		138.2345	138.2345	6.7700e-003		138.3767
<b>Total</b>	<b>0.0233</b>	<b>0.0679</b>	<b>0.5870</b>	<b>1.7200e-003</b>	<b>0.1482</b>	<b>9.6000e-004</b>	<b>0.1491</b>	<b>0.0393</b>	<b>8.9000e-004</b>	<b>0.0402</b>		<b>138.2345</b>	<b>138.2345</b>	<b>6.7700e-003</b>		<b>138.3767</b>

**3.18 Test cable splices - 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	lb/day										lb/day					
Off-Road	0.0783	1.7868	2.4129	3.1600e-003		0.1252	0.1252		0.1252	0.1252	0.0000	323.5275	323.5275	0.0991		325.6092
<b>Total</b>	<b>0.0783</b>	<b>1.7868</b>	<b>2.4129</b>	<b>3.1600e-003</b>		<b>0.1252</b>	<b>0.1252</b>		<b>0.1252</b>	<b>0.1252</b>	<b>0.0000</b>	<b>323.5275</b>	<b>323.5275</b>	<b>0.0991</b>		<b>325.6092</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0233	0.0679	0.5870	1.7200e-003	0.1482	9.6000e-004	0.1491	0.0393	8.9000e-004	0.0402		138.2345	138.2345	6.7700e-003		138.3767
<b>Total</b>	<b>0.0233</b>	<b>0.0679</b>	<b>0.5870</b>	<b>1.7200e-003</b>	<b>0.1482</b>	<b>9.6000e-004</b>	<b>0.1491</b>	<b>0.0393</b>	<b>8.9000e-004</b>	<b>0.0402</b>		<b>138.2345</b>	<b>138.2345</b>	<b>6.7700e-003</b>		<b>138.3767</b>