

TL649 Wood-to-Steel
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Because the existing line is being rebuilt, no land use types have been entered.

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

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Default values set to a quantity of zero. Equipment taken from Chapter 3 - Project Description.

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Trips and VMT - Values calculated based upon data in Chapter 3 - Project Description

On-road Fugitive Dust - Assume that all worker trips are paved. Assume that 65 percent of vendor and hauling miles are paved.

Grading - A maximum of 9.7 acres per day will be disturbed during the staging yard development/access road improvement process and restoration.

Construction Off-road Equipment Mitigation -

Off-road Equipment - Defaults set to zero.

Off-road Equipment - Defaults set to zero.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	90.00
tblConstructionPhase	NumDays	0.00	60.00
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	40.00
tblConstructionPhase	NumDays	0.00	63.00
tblConstructionPhase	NumDays	0.00	26.00
tblConstructionPhase	NumDays	0.00	184.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	3/31/2017	1/17/2017
tblConstructionPhase	PhaseEndDate	3/31/2017	3/29/2017
tblConstructionPhase	PhaseEndDate	6/15/2017	11/19/2016
tblConstructionPhase	PhaseEndDate	2/1/2017	12/16/2016
tblConstructionPhase	PhaseEndDate	4/28/2017	4/29/2017
tblConstructionPhase	PhaseEndDate	5/6/2017	4/29/2017
tblConstructionPhase	PhaseStartDate	12/17/2016	10/5/2016
tblConstructionPhase	PhaseStartDate	1/21/2017	1/19/2017
tblConstructionPhase	PhaseStartDate	4/30/2017	10/5/2016
tblConstructionPhase	PhaseStartDate	11/20/2016	10/5/2016
tblConstructionPhase	PhaseStartDate	3/30/2017	3/31/2017
tblConstructionPhase	PhaseStartDate	10/5/2016	9/28/2016
tblGrading	AcresOfGrading	3.75	9.70
tblGrading	AcresOfGrading	9.75	9.70
tblGrading	MaterialExported	0.00	24.40
tblGrading	MaterialExported	0.00	628.30
tblGrading	MaterialExported	0.00	1,048.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.2883	3.3381	1.5883	4.0300e-003	0.9831	0.1435	1.1266	0.0983	0.1345	0.2327	0.0000	375.3012	375.3012	0.1044	0.0000	377.4939
2017	0.1517	1.7591	0.8639	1.8900e-003	0.6066	0.0761	0.6827	0.0607	0.0701	0.1308	0.0000	174.8213	174.8213	0.0532	0.0000	175.9386
Total	0.4400	5.0972	2.4523	5.9200e-003	1.5898	0.2196	1.8093	0.1589	0.2046	0.3635	0.0000	550.1225	550.1225	0.1576	0.0000	553.4326

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.2883	3.3381	1.5883	4.0300e-003	0.2724	0.1435	0.4159	0.0273	0.1345	0.1618	0.0000	375.3007	375.3007	0.1044	0.0000	377.4935
2017	0.1517	1.7591	0.8639	1.8900e-003	0.1685	0.0761	0.2445	0.0169	0.0701	0.0870	0.0000	174.8211	174.8211	0.0532	0.0000	175.9384
Total	0.4400	5.0972	2.4523	5.9200e-003	0.4409	0.2196	0.6605	0.0442	0.2046	0.2487	0.0000	550.1218	550.1218	0.1576	0.0000	553.4319

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Staging Yard Setup	Site Preparation	9/28/2016	10/4/2016	6	6	Staging Yard Setup
2	Worker Commute/Water Import	Building Construction	9/28/2016	4/29/2017	6	184	Worker Commute/Water Import
3	Micropile Foundation Construction	Site Preparation	10/5/2016	11/19/2016	6	40	Micropile Foundation Construction
4	Pier Foundation Construction	Site Preparation	10/5/2016	12/16/2016	6	63	Pier Foundation Construction
5	Direct Bury and Pole Installation	Site Preparation	10/5/2016	1/17/2017	6	90	Direct Bury and Pole Installation
6	Trenching for Underground	Trenching	1/18/2017	1/20/2017	6	3	Trenching for Underground
7	Stringing Activities	Building Construction	1/19/2017	3/29/2017	6	60	Stringing Activities
8	Demobilization/Cleanup	Site Preparation	3/31/2017	4/29/2017	6	26	Demobilization/Cleanup

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
Staging Yard Setup	Graders	2	5.00	174	0.41
Staging Yard Setup	Off-Highway Trucks	2	4.00	400	0.38
Staging Yard Setup	Other Construction Equipment	2	4.00	171	0.42

Staging Yard Setup	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
Micropile Foundation Construction	Bore/Drill Rigs	2	7.00	205	0.50
Micropile Foundation Construction	Cranes	2	3.00	226	0.29
Micropile Foundation Construction	Generator Sets	2	3.00	84	0.74
Micropile Foundation Construction	Off-Highway Trucks	1	3.00	400	0.38
Micropile Foundation Construction	Rough Terrain Forklifts	2	2.00	100	0.40
Pier Foundation Construction	Air Compressors	2	3.00	78	0.48
Pier Foundation Construction	Bore/Drill Rigs	2	7.00	205	0.50
Pier Foundation Construction	Cranes	2	3.00	226	0.29
Pier Foundation Construction	Generator Sets	2	3.00	84	0.74
Pier Foundation Construction	Off-Highway Trucks	2	3.00	400	0.38
Pier Foundation Construction	Rough Terrain Forklifts	2	3.00	100	0.40
Direct Bury and Pole Installation	Aerial Lifts	3	5.00	62	0.31
Direct Bury and Pole Installation	Air Compressors	2	3.00	78	0.48
Direct Bury and Pole Installation	Bore/Drill Rigs	3	7.00	205	0.50
Direct Bury and Pole Installation	Cranes	3	5.00	226	0.29
Direct Bury and Pole Installation	Off-Highway Trucks	2	4.00	400	0.38
WorkerCommute/WaterImport	Cranes	0	4.00	226	0.29
Trenching for Underground	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Stringing Activities	Aerial Lifts	3	8.00	62	0.31
Stringing Activities	Cranes	3	7.00	226	0.29
Stringing Activities	Off-Highway Trucks	2	5.00	400	0.38
Stringing Activities	Other Construction Equipment	1	6.00	171	0.42
Demobilization/Cleanup	Graders	1	6.00	174	0.41
Demobilization/Cleanup	Off-Highway Trucks	1	3.00	400	0.38
Demobilization/Cleanup	Off-Highway Trucks	1	6.00	400	0.38
Demobilization/Cleanup	Tractors/Loaders/Backhoes	1	7.00	97	0.37

WorkerCommute/WaterImport	Forklifts	0	6.00	89	0.20
Stringing Activities	Forklifts	0	6.00	89	0.20
Micropile Foundation Construction	Graders	0	8.00	174	0.41
Pier Foundation Construction	Graders	0	8.00	174	0.41
Direct Bury and Pole Installation	Graders	0	8.00	174	0.41
WorkerCommute/WaterImport	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Stringing Activities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Micropile Foundation Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pier Foundation Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Direct Bury and Pole Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
WorkerCommute/WaterImport				0.00	16.80	6.60	20.00			
Stringing Activities				0.00	16.80	6.60	20.00			
Staging Yard Setup				0.00	16.80	6.60	20.00			
Micropile Foundation Construction				3.00	16.80	6.60	20.00			
Pier Foundation Construction				79.00	16.80	6.60	20.00			
Direct Bury and Pole Installation				131.00	16.80	6.60	20.00			
Demobilization/Cleanups				0.00	16.80	6.60	20.00			
Trenching for Underground				0.00	16.80	6.60	20.00			

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Staging Yard Setup - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.1400e-003	0.0000	5.1400e-003	5.6000e-004	0.0000	5.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1500e-003	0.0985	0.0500	9.0000e-005		4.9500e-003	4.9500e-003		4.5600e-003	4.5600e-003	0.0000	8.1070	8.1070	2.4500e-003	0.0000	8.1583
Total	9.1500e-003	0.0985	0.0500	9.0000e-005	5.1400e-003	4.9500e-003	0.0101	5.6000e-004	4.5600e-003	5.1200e-003	0.0000	8.1070	8.1070	2.4500e-003	0.0000	8.1583

3.2 Staging Yard Setup - 2016

Unmitigated Construction Off-Site

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

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					2.3100e-003	0.0000	2.3100e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1500e-003	0.0985	0.0500	9.0000e-005		4.9500e-003	4.9500e-003		4.5600e-003	4.5600e-003	0.0000	8.1070	8.1070	2.4500e-003	0.0000	8.1583
Total	9.1500e-003	0.0985	0.0500	9.0000e-005	2.3100e-003	4.9500e-003	7.2600e-003	2.5000e-004	4.5600e-003	4.8100e-003	0.0000	8.1070	8.1070	2.4500e-003	0.0000	8.1583

3.3 WorkerCommute/WaterImport - 2017

Mitigated Construction Off-Site

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

3.4 Micropile Foundation Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0491	0.5400	0.2727	6.8000e-004		0.0248	0.0248		0.0235	0.0235	0.0000	62.9292	62.9292	0.0163	0.0000	63.2707
Total	0.0491	0.5400	0.2727	6.8000e-004	0.0000	0.0248	0.0248	0.0000	0.0235	0.0235	0.0000	62.9292	62.9292	0.0163	0.0000	63.2707

3.4 Micropile Foundation Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0138	0.0000	0.0138	1.3800e-003	0.0000	1.3800e-003	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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0138	0.0000	0.0138	1.3800e-003	0.0000	1.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0491	0.5400	0.2727	6.8000e-004		0.0248	0.0248		0.0235	0.0235	0.0000	62.9291	62.9291	0.0163	0.0000	63.2706
Total	0.0491	0.5400	0.2727	6.8000e-004	0.0000	0.0248	0.0248	0.0000	0.0235	0.0235	0.0000	62.9291	62.9291	0.0163	0.0000	63.2706

3.4 Micropile Foundation Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					3.8000e-003	0.0000	3.8000e-003	3.8000e-004	0.0000	3.8000e-004	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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					3.8000e-003	0.0000	3.8000e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Pier Foundation Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0902	1.0001	0.5077	1.2600e-003		0.0451	0.0451		0.0426	0.0426	0.0000	116.3164	116.3164	0.0308	0.0000	116.9632
Total	0.0902	1.0001	0.5077	1.2600e-003	4.0000e-005	0.0451	0.0451	1.0000e-005	0.0426	0.0426	0.0000	116.3164	116.3164	0.0308	0.0000	116.9632

3.5 Pier Foundation Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.3627	0.0000	0.3627	0.0362	0.0000	0.0362	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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.3627	0.0000	0.3627	0.0362	0.0000	0.0362	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0902	1.0001	0.5077	1.2600e-003		0.0451	0.0451		0.0426	0.0426	0.0000	116.3162	116.3162	0.0308	0.0000	116.9630
Total	0.0902	1.0001	0.5077	1.2600e-003	2.0000e-005	0.0451	0.0451	0.0000	0.0426	0.0426	0.0000	116.3162	116.3162	0.0308	0.0000	116.9630

3.5 Pier Foundation Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.1002	0.0000	0.1002	0.0100	0.0000	0.0100	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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.1002	0.0000	0.1002	0.0100	0.0000	0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Direct Bury and Pole Installation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1398	1.6995	0.7579	2.0000e-003		0.0687	0.0687		0.0638	0.0638	0.0000	187.9486	187.9486	0.0549	0.0000	189.1017
Total	0.1398	1.6995	0.7579	2.0000e-003	7.0000e-005	0.0687	0.0688	1.0000e-005	0.0638	0.0638	0.0000	187.9486	187.9486	0.0549	0.0000	189.1017

3.6 Direct Bury and Pole Installation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.6014	0.0000	0.6014	0.0601	0.0000	0.0601	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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.6014	0.0000	0.6014	0.0601	0.0000	0.0601	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1398	1.6995	0.7579	2.0000e-003		0.0687	0.0687		0.0638	0.0638	0.0000	187.9484	187.9484	0.0549	0.0000	189.1015
Total	0.1398	1.6995	0.7579	2.0000e-003	3.0000e-005	0.0687	0.0687	1.0000e-005	0.0638	0.0638	0.0000	187.9484	187.9484	0.0549	0.0000	189.1015

3.6 Direct Bury and Pole Installation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.1661	0.0000	0.1661	0.0166	0.0000	0.0166	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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.1661	0.0000	0.1661	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Direct Bury and Pole Installation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0233	0.2794	0.1328	3.7000e-004		0.0111	0.0111		0.0103	0.0103	0.0000	34.0991	34.0991	0.0101	0.0000	34.3109
Total	0.0233	0.2794	0.1328	3.7000e-004	7.0000e-005	0.0111	0.0111	1.0000e-005	0.0103	0.0103	0.0000	34.0991	34.0991	0.0101	0.0000	34.3109

3.6 Direct Bury and Pole Installation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.6014	0.0000	0.6014	0.0601	0.0000	0.0601	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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.6014	0.0000	0.6014	0.0601	0.0000	0.0601	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0233	0.2794	0.1328	3.7000e-004		0.0111	0.0111		0.0103	0.0103	0.0000	34.0990	34.0990	0.0101	0.0000	34.3109
Total	0.0233	0.2794	0.1328	3.7000e-004	3.0000e-005	0.0111	0.0111	1.0000e-005	0.0103	0.0103	0.0000	34.0990	34.0990	0.0101	0.0000	34.3109

3.6 Direct Bury and Pole Installation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.1661	0.0000	0.1661	0.0166	0.0000	0.0166	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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.1661	0.0000	0.1661	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.7 Trenching for Underground - 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	4.2000e-004	4.0000e-003	3.1400e-003	0.0000		3.0000e-004	3.0000e-004		2.8000e-004	2.8000e-004	0.0000	0.3790	0.3790	1.2000e-004	0.0000	0.3814
Total	4.2000e-004	4.0000e-003	3.1400e-003	0.0000		3.0000e-004	3.0000e-004		2.8000e-004	2.8000e-004	0.0000	0.3790	0.3790	1.2000e-004	0.0000	0.3814

3.7 Trenching for Underground - 2017

Unmitigated Construction Off-Site

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

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	4.2000e-004	4.0000e-003	3.1400e-003	0.0000		3.0000e-004	3.0000e-004		2.8000e-004	2.8000e-004	0.0000	0.3790	0.3790	1.2000e-004	0.0000	0.3814
Total	4.2000e-004	4.0000e-003	3.1400e-003	0.0000		3.0000e-004	3.0000e-004		2.8000e-004	2.8000e-004	0.0000	0.3790	0.3790	1.2000e-004	0.0000	0.3814

3.7 Trenching for Underground - 2017

Mitigated Construction Off-Site

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

3.8 Stringing Activities - 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	0.1023	1.2033	0.5850	1.2200e-003		0.0515	0.0515		0.0474	0.0474	0.0000	113.5843	113.5843	0.0348	0.0000	114.3152
Total	0.1023	1.2033	0.5850	1.2200e-003		0.0515	0.0515		0.0474	0.0474	0.0000	113.5843	113.5843	0.0348	0.0000	114.3152

3.8 Stringing Activities - 2017

Unmitigated Construction Off-Site

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

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	0.1023	1.2033	0.5850	1.2200e-003		0.0515	0.0515		0.0474	0.0474	0.0000	113.5842	113.5842	0.0348	0.0000	114.3150
Total	0.1023	1.2033	0.5850	1.2200e-003		0.0515	0.0515		0.0474	0.0474	0.0000	113.5842	113.5842	0.0348	0.0000	114.3150

3.8 Stringing Activities - 2017

Mitigated Construction Off-Site

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

3.9 Demobilization/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					5.1400e-003	0.0000	5.1400e-003	5.6000e-004	0.0000	5.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0256	0.2725	0.1429	2.9000e-004		0.0132	0.0132		0.0122	0.0122	0.0000	26.7590	26.7590	8.2000e-003	0.0000	26.9312
Total	0.0256	0.2725	0.1429	2.9000e-004	5.1400e-003	0.0132	0.0184	5.6000e-004	0.0122	0.0127	0.0000	26.7590	26.7590	8.2000e-003	0.0000	26.9312

3.9 Demobilization/Cleanup - 2017

Unmitigated Construction Off-Site

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

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					2.3100e-003	0.0000	2.3100e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0256	0.2725	0.1429	2.9000e-004		0.0132	0.0132		0.0122	0.0122	0.0000	26.7589	26.7589	8.2000e-003	0.0000	26.9311
Total	0.0256	0.2725	0.1429	2.9000e-004	2.3100e-003	0.0132	0.0155	2.5000e-004	0.0122	0.0124	0.0000	26.7589	26.7589	8.2000e-003	0.0000	26.9311

6.2 Area by SubCategory

Unmitigated

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

Mitigated

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

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

TL649 Wood-to-Steel
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Because the existing line is being rebuilt, no land use types have been entered.

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

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Default values set to a quantity of zero. Equipment taken from Chapter 3 - Project Description.

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Trips and VMT - Values calculated based upon data in Chapter 3 - Project Description

On-road Fugitive Dust - Assume that all worker trips are paved. Assume that 65 percent of vendor and hauling miles are paved.

Grading - A maximum of 9.7 acres per day will be disturbed during the staging yard development/access road improvement process and restoration.

Construction Off-road Equipment Mitigation -

Off-road Equipment - Defaults set to zero.

Off-road Equipment - Defaults set to zero.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	90.00
tblConstructionPhase	NumDays	0.00	60.00
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	40.00
tblConstructionPhase	NumDays	0.00	63.00
tblConstructionPhase	NumDays	0.00	26.00
tblConstructionPhase	NumDays	0.00	184.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	3/31/2017	1/17/2017
tblConstructionPhase	PhaseEndDate	3/31/2017	3/29/2017
tblConstructionPhase	PhaseEndDate	6/15/2017	11/19/2016
tblConstructionPhase	PhaseEndDate	2/1/2017	12/16/2016
tblConstructionPhase	PhaseEndDate	4/28/2017	4/29/2017
tblConstructionPhase	PhaseEndDate	5/6/2017	4/29/2017
tblConstructionPhase	PhaseStartDate	12/17/2016	10/5/2016
tblConstructionPhase	PhaseStartDate	1/21/2017	1/19/2017
tblConstructionPhase	PhaseStartDate	4/30/2017	10/5/2016
tblConstructionPhase	PhaseStartDate	11/20/2016	10/5/2016
tblConstructionPhase	PhaseStartDate	3/30/2017	3/31/2017
tblConstructionPhase	PhaseStartDate	10/5/2016	9/28/2016
tblGrading	AcresOfGrading	3.75	9.70
tblGrading	AcresOfGrading	9.75	9.70
tblGrading	MaterialExported	0.00	24.40
tblGrading	MaterialExported	0.00	628.30
tblGrading	MaterialExported	0.00	1,048.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	8.9990	103.4738	49.6966	0.1268	31.4794	4.4769	35.9563	3.1450	4.2066	7.3516	0.0000	12,990.80 35	12,990.80 35	3.5670	0.0000	13,065.70 98
2017	3.6887	42.7738	21.5958	0.0528	96.4842	1.9176	98.0627	9.6390	1.7641	11.1050	0.0000	5,369.682 6	5,369.682 6	1.5887	0.0000	5,403.046 2
Total	12.6876	146.2476	71.2924	0.1795	127.9636	6.3944	134.0189	12.7840	5.9707	18.4566	0.0000	18,360.48 61	18,360.48 61	5.1557	0.0000	18,468.75 59

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	8.9990	103.4738	49.6966	0.1268	8.6929	4.4769	13.1698	0.8701	4.2066	5.0766	0.0000	12,990.80 35	12,990.80 35	3.5670	0.0000	13,065.70 98
2017	3.6887	42.7738	21.5958	0.0528	26.6423	1.9176	28.2208	2.6664	1.7641	4.1325	0.0000	5,369.682 6	5,369.682 6	1.5887	0.0000	5,403.046 2
Total	12.6876	146.2476	71.2924	0.1795	35.3352	6.3944	41.3906	3.5365	5.9707	9.2091	0.0000	18,360.48 61	18,360.48 61	5.1557	0.0000	18,468.75 59

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	72.39	0.00	69.12	72.34	0.00	50.10	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

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

Mitigated Operational

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Staging Yard Setup	Site Preparation	9/28/2016	10/4/2016	6	6	Staging Yard Setup
2	Worker Commute/Water Import	Building Construction	9/28/2016	4/29/2017	6	184	Worker Commute/Water Import
3	Micropile Foundation Construction	Site Preparation	10/5/2016	11/19/2016	6	40	Micropile Foundation Construction
4	Pier Foundation Construction	Site Preparation	10/5/2016	12/16/2016	6	63	Pier Foundation Construction
5	Direct Bury and Pole Installation	Site Preparation	10/5/2016	1/17/2017	6	90	Direct Bury and Pole Installation
6	Trenching for Underground	Trenching	1/18/2017	1/20/2017	6	3	Trenching for Underground
7	Stringing Activities	Building Construction	1/19/2017	3/29/2017	6	60	Stringing Activities
8	Demobilization/Cleanup	Site Preparation	3/31/2017	4/29/2017	6	26	Demobilization/Cleanup

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
Staging Yard Setup	Graders	2	5.00	174	0.41
Staging Yard Setup	Off-Highway Trucks	2	4.00	400	0.38
Staging Yard Setup	Other Construction Equipment	2	4.00	171	0.42

Staging Yard Setup	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
Micropile Foundation Construction	Bore/Drill Rigs	2	7.00	205	0.50
Micropile Foundation Construction	Cranes	2	3.00	226	0.29
Micropile Foundation Construction	Generator Sets	2	3.00	84	0.74
Micropile Foundation Construction	Off-Highway Trucks	1	3.00	400	0.38
Micropile Foundation Construction	Rough Terrain Forklifts	2	2.00	100	0.40
Pier Foundation Construction	Air Compressors	2	3.00	78	0.48
Pier Foundation Construction	Bore/Drill Rigs	2	7.00	205	0.50
Pier Foundation Construction	Cranes	2	3.00	226	0.29
Pier Foundation Construction	Generator Sets	2	3.00	84	0.74
Pier Foundation Construction	Off-Highway Trucks	2	3.00	400	0.38
Pier Foundation Construction	Rough Terrain Forklifts	2	3.00	100	0.40
Direct Bury and Pole Installation	Aerial Lifts	3	5.00	62	0.31
Direct Bury and Pole Installation	Air Compressors	2	3.00	78	0.48
Direct Bury and Pole Installation	Bore/Drill Rigs	3	7.00	205	0.50
Direct Bury and Pole Installation	Cranes	3	5.00	226	0.29
Direct Bury and Pole Installation	Off-Highway Trucks	2	4.00	400	0.38
WorkerCommute/WaterImport	Cranes	0	4.00	226	0.29
Trenching for Underground	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Stringing Activities	Aerial Lifts	3	8.00	62	0.31
Stringing Activities	Cranes	3	7.00	226	0.29
Stringing Activities	Off-Highway Trucks	2	5.00	400	0.38
Stringing Activities	Other Construction Equipment	1	6.00	171	0.42
Demobilization/Cleanup	Graders	1	6.00	174	0.41
Demobilization/Cleanup	Off-Highway Trucks	1	3.00	400	0.38
Demobilization/Cleanup	Off-Highway Trucks	1	6.00	400	0.38
Demobilization/Cleanup	Tractors/Loaders/Backhoes	1	7.00	97	0.37

WorkerCommute/WaterImport	Forklifts	0	6.00	89	0.20
Stringing Activities	Forklifts	0	6.00	89	0.20
Micropile Foundation Construction	Graders	0	8.00	174	0.41
Pier Foundation Construction	Graders	0	8.00	174	0.41
Direct Bury and Pole Installation	Graders	0	8.00	174	0.41
WorkerCommute/WaterImport	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Stringing Activities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Micropile Foundation Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pier Foundation Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Direct Bury and Pole Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
WorkerCommute/WaterImport				0.00	16.80	6.60	20.00			
Stringing Activities				0.00	16.80	6.60	20.00			
Staging Yard Setup				0.00	16.80	6.60	20.00			
Micropile Foundation Construction				3.00	16.80	6.60	20.00			
Pier Foundation Construction				79.00	16.80	6.60	20.00			
Direct Bury and Pole Installation				131.00	16.80	6.60	20.00			
Demobilization/Cleanups				0.00	16.80	6.60	20.00			
Trenching for Underground				0.00	16.80	6.60	20.00			

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Staging Yard Setup - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7145	0.0000	1.7145	0.1851	0.0000	0.1851			0.0000			0.0000
Off-Road	3.0500	32.8235	16.6716	0.0287		1.6512	1.6512		1.5191	1.5191		2,978.807 1	2,978.807 1	0.8985		2,997.675 8
Total	3.0500	32.8235	16.6716	0.0287	1.7145	1.6512	3.3656	0.1851	1.5191	1.7042		2,978.807 1	2,978.807 1	0.8985		2,997.675 8

3.2 Staging Yard Setup - 2016

Unmitigated Construction Off-Site

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

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					0.7715	0.0000	0.7715	0.0833	0.0000	0.0833			0.0000			0.0000
Off-Road	3.0500	32.8235	16.6716	0.0287		1.6512	1.6512		1.5191	1.5191	0.0000	2,978.8070	2,978.8070	0.8985		2,997.6758
Total	3.0500	32.8235	16.6716	0.0287	0.7715	1.6512	2.4227	0.0833	1.5191	1.6024	0.0000	2,978.8070	2,978.8070	0.8985		2,997.6758

3.2 Staging Yard Setup - 2016

Mitigated Construction Off-Site

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

3.3 WorkerCommute/WaterImport - 2016

Unmitigated Construction On-Site

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

3.3 WorkerCommute/WaterImport - 2016

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

3.3 WorkerCommute/WaterImport - 2016

Mitigated Construction Off-Site

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

3.3 WorkerCommute/WaterImport - 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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.3 WorkerCommute/WaterImport - 2017

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

3.3 WorkerCommute/WaterImport - 2017

Mitigated Construction Off-Site

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

3.4 Micropile Foundation Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0000			0.0000
Off-Road	2.4566	27.0021	13.6332	0.0341		1.2392	1.2392		1.1762	1.1762		3,468.3778	3,468.3778	0.8963		3,487.1997
Total	2.4566	27.0021	13.6332	0.0341	9.0000e-005	1.2392	1.2393	1.0000e-005	1.1762	1.1762		3,468.3778	3,468.3778	0.8963		3,487.1997

3.4 Micropile Foundation Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.7733	0.0000	0.7733	0.0773	0.0000	0.0773			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.7733	0.0000	0.7733	0.0773	0.0000	0.0773			0.0000			0.0000

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0000			0.0000
Off-Road	2.4566	27.0021	13.6332	0.0341		1.2392	1.2392		1.1762	1.1762	0.0000	3,468.3778	3,468.3778	0.8963		3,487.1997
Total	2.4566	27.0021	13.6332	0.0341	4.0000e-005	1.2392	1.2393	1.0000e-005	1.1762	1.1762	0.0000	3,468.3778	3,468.3778	0.8963		3,487.1997

3.4 Micropile Foundation Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.2135	0.0000	0.2135	0.0214	0.0000	0.0214			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.2135	0.0000	0.2135	0.0214	0.0000	0.0214			0.0000			0.0000

3.5 Pier Foundation Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4000e-003	0.0000	1.4000e-003	2.1000e-004	0.0000	2.1000e-004			0.0000			0.0000
Off-Road	2.8630	31.7489	16.1178	0.0399		1.4304	1.4304		1.3520	1.3520		4,070.3756	4,070.3756	1.0779		4,093.0108
Total	2.8630	31.7489	16.1178	0.0399	1.4000e-003	1.4304	1.4318	2.1000e-004	1.3520	1.3522		4,070.3756	4,070.3756	1.0779		4,093.0108

3.5 Pier Foundation Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					12.9298	0.0000	12.9298	1.2917	0.0000	1.2917			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					12.9298	0.0000	12.9298	1.2917	0.0000	1.2917			0.0000			0.0000

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					6.3000e-004	0.0000	6.3000e-004	1.0000e-004	0.0000	1.0000e-004			0.0000			0.0000
Off-Road	2.8630	31.7489	16.1178	0.0399		1.4304	1.4304		1.3520	1.3520	0.0000	4,070.3756	4,070.3756	1.0779		4,093.0107
Total	2.8630	31.7489	16.1178	0.0399	6.3000e-004	1.4304	1.4310	1.0000e-004	1.3520	1.3521	0.0000	4,070.3756	4,070.3756	1.0779		4,093.0107

3.5 Pier Foundation Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					3.5703	0.0000	3.5703	0.3573	0.0000	0.3573			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					3.5703	0.0000	3.5703	0.3573	0.0000	0.3573			0.0000			0.0000

3.6 Direct Bury and Pole Installation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6400e-003	0.0000	1.6400e-003	2.5000e-004	0.0000	2.5000e-004			0.0000			0.0000
Off-Road	3.6794	44.7228	19.9455	0.0528		1.8073	1.8073		1.6784	1.6784		5,452.0502	5,452.0502	1.5928		5,485.4994
Total	3.6794	44.7228	19.9455	0.0528	1.6400e-003	1.8073	1.8089	2.5000e-004	1.6784	1.6787		5,452.0502	5,452.0502	1.5928		5,485.4994

3.6 Direct Bury and Pole Installation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					17.7731	0.0000	17.7731	1.7756	0.0000	1.7756			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					17.7731	0.0000	17.7731	1.7756	0.0000	1.7756			0.0000			0.0000

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					7.4000e-004	0.0000	7.4000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	3.6794	44.7228	19.9455	0.0528		1.8073	1.8073		1.6784	1.6784	0.0000	5,452.0502	5,452.0502	1.5928		5,485.4993
Total	3.6794	44.7228	19.9455	0.0528	7.4000e-004	1.8073	1.8080	1.1000e-004	1.6784	1.6785	0.0000	5,452.0502	5,452.0502	1.5928		5,485.4993

3.6 Direct Bury and Pole Installation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					4.9077	0.0000	4.9077	0.4912	0.0000	0.4912			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					4.9077	0.0000	4.9077	0.4912	0.0000	0.4912			0.0000			0.0000

3.6 Direct Bury and Pole Installation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6400e-003	0.0000	1.6400e-003	2.5000e-004	0.0000	2.5000e-004			0.0000			0.0000
Off-Road	3.3333	39.9117	18.9754	0.0528		1.5785	1.5785		1.4661	1.4661		5,369.6826	5,369.6826	1.5887		5,403.0462
Total	3.3333	39.9117	18.9754	0.0528	1.6400e-003	1.5785	1.5801	2.5000e-004	1.4661	1.4663		5,369.6826	5,369.6826	1.5887		5,403.0462

3.6 Direct Bury and Pole Installation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					96.4826	0.0000	96.4826	9.6387	0.0000	9.6387			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					96.4826	0.0000	96.4826	9.6387	0.0000	9.6387			0.0000			0.0000

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					7.4000e-004	0.0000	7.4000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	3.3333	39.9117	18.9754	0.0528		1.5785	1.5785		1.4661	1.4661	0.0000	5,369.6826	5,369.6826	1.5887		5,403.0462
Total	3.3333	39.9117	18.9754	0.0528	7.4000e-004	1.5785	1.5792	1.1000e-004	1.4661	1.4662	0.0000	5,369.6826	5,369.6826	1.5887		5,403.0462

3.6 Direct Bury and Pole Installation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					26.6416	0.0000	26.6416	2.6663	0.0000	2.6663			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					26.6416	0.0000	26.6416	2.6663	0.0000	2.6663			0.0000			0.0000

3.7 Trenching for Underground - 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	0.2772	2.6634	2.0946	2.7200e-003		0.2003	0.2003		0.1843	0.1843		278.4818	278.4818	0.0853		280.2737
Total	0.2772	2.6634	2.0946	2.7200e-003		0.2003	0.2003		0.1843	0.1843		278.4818	278.4818	0.0853		280.2737

3.7 Trenching for Underground - 2017

Unmitigated Construction Off-Site

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

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	0.2772	2.6634	2.0946	2.7200e-003		0.2003	0.2003		0.1843	0.1843	0.0000	278.4818	278.4818	0.0853		280.2737
Total	0.2772	2.6634	2.0946	2.7200e-003		0.2003	0.2003		0.1843	0.1843	0.0000	278.4818	278.4818	0.0853		280.2737

3.7 Trenching for Underground - 2017

Mitigated Construction Off-Site

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

3.8 Stringing Activities - 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	3.4115	40.1104	19.5012	0.0408		1.7173	1.7173		1.5799	1.5799		4,173.5091	4,173.5091	1.2788		4,200.3630
Total	3.4115	40.1104	19.5012	0.0408		1.7173	1.7173		1.5799	1.5799		4,173.5091	4,173.5091	1.2788		4,200.3630

3.8 Stringing Activities - 2017

Unmitigated Construction Off-Site

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

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	3.4115	40.1104	19.5012	0.0408		1.7173	1.7173		1.5799	1.5799	0.0000	4,173.5091	4,173.5091	1.2788		4,200.3630
Total	3.4115	40.1104	19.5012	0.0408		1.7173	1.7173		1.5799	1.5799	0.0000	4,173.5091	4,173.5091	1.2788		4,200.3630

3.8 Stringing Activities - 2017

Mitigated Construction Off-Site

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

3.9 Demobilization/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					0.3957	0.0000	0.3957	0.0427	0.0000	0.0427			0.0000			0.0000
Off-Road	1.9726	20.9580	10.9942	0.0222		1.0172	1.0172		0.9358	0.9358		2,268.978 1	2,268.978 1	0.6952		2,283.577 5
Total	1.9726	20.9580	10.9942	0.0222	0.3957	1.0172	1.4128	0.0427	0.9358	0.9785		2,268.978 1	2,268.978 1	0.6952		2,283.577 5

3.9 Demobilization/Cleanup - 2017

Unmitigated Construction Off-Site

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

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					0.1780	0.0000	0.1780	0.0192	0.0000	0.0192			0.0000			0.0000
Off-Road	1.9726	20.9580	10.9942	0.0222		1.0172	1.0172		0.9358	0.9358	0.0000	2,268.978 1	2,268.978 1	0.6952		2,283.577 5
Total	1.9726	20.9580	10.9942	0.0222	0.1780	1.0172	1.1952	0.0192	0.9358	0.9550	0.0000	2,268.978 1	2,268.978 1	0.6952		2,283.577 5

3.9 Demobilization/Cleanup - 2017

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

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

4.3 Trip Type Information

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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510423	0.073380	0.192408	0.132453	0.036550	0.005219	0.012745	0.022253	0.001862	0.002079	0.006550	0.000609	0.003468

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

6.0 Area Detail

6.1 Mitigation Measures Area

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

6.2 Area by SubCategory

Unmitigated

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

Mitigated

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

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

TL649 Wood-to-Steel
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Because the existing line is being rebuilt, no land use types have been entered.

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

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Default values set to a quantity of zero. Equipment taken from Chapter 3 - Project Description.

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Off-road Equipment - Construction equipment taken from Attachment 3-D

Trips and VMT - Values calculated based upon data in Chapter 3 - Project Description

On-road Fugitive Dust - Assume that all worker trips are paved. Assume that 65 percent of vendor and hauling miles are paved.

Grading - A maximum of 9.7 acres per day will be disturbed during the staging yard development/access road improvement process and restoration.

Construction Off-road Equipment Mitigation -

Off-road Equipment - Defaults set to zero.

Off-road Equipment - Defaults set to zero.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	90.00
tblConstructionPhase	NumDays	0.00	60.00
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	40.00
tblConstructionPhase	NumDays	0.00	63.00
tblConstructionPhase	NumDays	0.00	26.00
tblConstructionPhase	NumDays	0.00	184.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	3/31/2017	1/17/2017
tblConstructionPhase	PhaseEndDate	3/31/2017	3/29/2017
tblConstructionPhase	PhaseEndDate	6/15/2017	11/19/2016
tblConstructionPhase	PhaseEndDate	2/1/2017	12/16/2016
tblConstructionPhase	PhaseEndDate	4/28/2017	4/29/2017
tblConstructionPhase	PhaseEndDate	5/6/2017	4/29/2017
tblConstructionPhase	PhaseStartDate	12/17/2016	10/5/2016
tblConstructionPhase	PhaseStartDate	1/21/2017	1/19/2017
tblConstructionPhase	PhaseStartDate	4/30/2017	10/5/2016
tblConstructionPhase	PhaseStartDate	11/20/2016	10/5/2016
tblConstructionPhase	PhaseStartDate	3/30/2017	3/31/2017
tblConstructionPhase	PhaseStartDate	10/5/2016	9/28/2016
tblGrading	AcresOfGrading	3.75	9.70
tblGrading	AcresOfGrading	9.75	9.70
tblGrading	MaterialExported	0.00	24.40
tblGrading	MaterialExported	0.00	628.30
tblGrading	MaterialExported	0.00	1,048.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	HaulingPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblOnRoadDust	VendorPercentPave	100.00	65.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	8.9990	103.4738	49.6966	0.1268	31.4794	4.4769	35.9563	3.1450	4.2066	7.3516	0.0000	12,990.80 35	12,990.80 35	3.5670	0.0000	13,065.70 98
2017	3.6887	42.7738	21.5958	0.0528	96.4842	1.9176	98.0627	9.6390	1.7641	11.1050	0.0000	5,369.682 6	5,369.682 6	1.5887	0.0000	5,403.046 2
Total	12.6876	146.2476	71.2924	0.1795	127.9636	6.3944	134.0189	12.7840	5.9707	18.4566	0.0000	18,360.48 61	18,360.48 61	5.1557	0.0000	18,468.75 59

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	8.9990	103.4738	49.6966	0.1268	8.6929	4.4769	13.1698	0.8701	4.2066	5.0766	0.0000	12,990.80 35	12,990.80 35	3.5670	0.0000	13,065.70 98
2017	3.6887	42.7738	21.5958	0.0528	26.6423	1.9176	28.2208	2.6664	1.7641	4.1325	0.0000	5,369.682 6	5,369.682 6	1.5887	0.0000	5,403.046 2
Total	12.6876	146.2476	71.2924	0.1795	35.3352	6.3944	41.3906	3.5365	5.9707	9.2091	0.0000	18,360.48 61	18,360.48 61	5.1557	0.0000	18,468.75 59

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	72.39	0.00	69.12	72.34	0.00	50.10	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

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

Mitigated Operational

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Staging Yard Setup	Site Preparation	9/28/2016	10/4/2016	6	6	Staging Yard Setup
2	Worker Commute/Water Import	Building Construction	9/28/2016	4/29/2017	6	184	Worker Commute/Water Import
3	Micropile Foundation Construction	Site Preparation	10/5/2016	11/19/2016	6	40	Micropile Foundation Construction
4	Pier Foundation Construction	Site Preparation	10/5/2016	12/16/2016	6	63	Pier Foundation Construction
5	Direct Bury and Pole Installation	Site Preparation	10/5/2016	1/17/2017	6	90	Direct Bury and Pole Installation
6	Trenching for Underground	Trenching	1/18/2017	1/20/2017	6	3	Trenching for Underground
7	Stringing Activities	Building Construction	1/19/2017	3/29/2017	6	60	Stringing Activities
8	Demobilization/Cleanup	Site Preparation	3/31/2017	4/29/2017	6	26	Demobilization/Cleanup

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
Staging Yard Setup	Graders	2	5.00	174	0.41
Staging Yard Setup	Off-Highway Trucks	2	4.00	400	0.38
Staging Yard Setup	Other Construction Equipment	2	4.00	171	0.42

Staging Yard Setup	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
Micropile Foundation Construction	Bore/Drill Rigs	2	7.00	205	0.50
Micropile Foundation Construction	Cranes	2	3.00	226	0.29
Micropile Foundation Construction	Generator Sets	2	3.00	84	0.74
Micropile Foundation Construction	Off-Highway Trucks	1	3.00	400	0.38
Micropile Foundation Construction	Rough Terrain Forklifts	2	2.00	100	0.40
Pier Foundation Construction	Air Compressors	2	3.00	78	0.48
Pier Foundation Construction	Bore/Drill Rigs	2	7.00	205	0.50
Pier Foundation Construction	Cranes	2	3.00	226	0.29
Pier Foundation Construction	Generator Sets	2	3.00	84	0.74
Pier Foundation Construction	Off-Highway Trucks	2	3.00	400	0.38
Pier Foundation Construction	Rough Terrain Forklifts	2	3.00	100	0.40
Direct Bury and Pole Installation	Aerial Lifts	3	5.00	62	0.31
Direct Bury and Pole Installation	Air Compressors	2	3.00	78	0.48
Direct Bury and Pole Installation	Bore/Drill Rigs	3	7.00	205	0.50
Direct Bury and Pole Installation	Cranes	3	5.00	226	0.29
Direct Bury and Pole Installation	Off-Highway Trucks	2	4.00	400	0.38
WorkerCommute/WaterImport	Cranes	0	4.00	226	0.29
Trenching for Underground	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Stringing Activities	Aerial Lifts	3	8.00	62	0.31
Stringing Activities	Cranes	3	7.00	226	0.29
Stringing Activities	Off-Highway Trucks	2	5.00	400	0.38
Stringing Activities	Other Construction Equipment	1	6.00	171	0.42
Demobilization/Cleanup	Graders	1	6.00	174	0.41
Demobilization/Cleanup	Off-Highway Trucks	1	3.00	400	0.38
Demobilization/Cleanup	Off-Highway Trucks	1	6.00	400	0.38
Demobilization/Cleanup	Tractors/Loaders/Backhoes	1	7.00	97	0.37

WorkerCommute/WaterImport	Forklifts	0	6.00	89	0.20
Stringing Activities	Forklifts	0	6.00	89	0.20
Micropile Foundation Construction	Graders	0	8.00	174	0.41
Pier Foundation Construction	Graders	0	8.00	174	0.41
Direct Bury and Pole Installation	Graders	0	8.00	174	0.41
WorkerCommute/WaterImport	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Stringing Activities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Micropile Foundation Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pier Foundation Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Direct Bury and Pole Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
WorkerCommute/WaterImport				0.00	16.80	6.60	20.00			
Stringing Activities				0.00	16.80	6.60	20.00			
Staging Yard Setup				0.00	16.80	6.60	20.00			
Micropile Foundation Construction				3.00	16.80	6.60	20.00			
Pier Foundation Construction				79.00	16.80	6.60	20.00			
Direct Bury and Pole Installation				131.00	16.80	6.60	20.00			
Demobilization/Cleanups				0.00	16.80	6.60	20.00			
Trenching for Underground				0.00	16.80	6.60	20.00			

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Staging Yard Setup - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7145	0.0000	1.7145	0.1851	0.0000	0.1851			0.0000			0.0000
Off-Road	3.0500	32.8235	16.6716	0.0287		1.6512	1.6512		1.5191	1.5191		2,978.807 1	2,978.807 1	0.8985		2,997.675 8
Total	3.0500	32.8235	16.6716	0.0287	1.7145	1.6512	3.3656	0.1851	1.5191	1.7042		2,978.807 1	2,978.807 1	0.8985		2,997.675 8

3.2 Staging Yard Setup - 2016

Unmitigated Construction Off-Site

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

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					0.7715	0.0000	0.7715	0.0833	0.0000	0.0833			0.0000			0.0000
Off-Road	3.0500	32.8235	16.6716	0.0287		1.6512	1.6512		1.5191	1.5191	0.0000	2,978.8070	2,978.8070	0.8985		2,997.6758
Total	3.0500	32.8235	16.6716	0.0287	0.7715	1.6512	2.4227	0.0833	1.5191	1.6024	0.0000	2,978.8070	2,978.8070	0.8985		2,997.6758

3.2 Staging Yard Setup - 2016

Mitigated Construction Off-Site

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

3.3 WorkerCommute/WaterImport - 2016

Unmitigated Construction On-Site

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

3.3 WorkerCommute/WaterImport - 2016

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

3.3 WorkerCommute/WaterImport - 2016

Mitigated Construction Off-Site

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

3.3 WorkerCommute/WaterImport - 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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.3 WorkerCommute/WaterImport - 2017

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

3.3 WorkerCommute/WaterImport - 2017

Mitigated Construction Off-Site

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

3.4 Micropile Foundation Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0000			0.0000
Off-Road	2.4566	27.0021	13.6332	0.0341		1.2392	1.2392		1.1762	1.1762		3,468.3778	3,468.3778	0.8963		3,487.1997
Total	2.4566	27.0021	13.6332	0.0341	9.0000e-005	1.2392	1.2393	1.0000e-005	1.1762	1.1762		3,468.3778	3,468.3778	0.8963		3,487.1997

3.4 Micropile Foundation Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.7733	0.0000	0.7733	0.0773	0.0000	0.0773			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.7733	0.0000	0.7733	0.0773	0.0000	0.0773			0.0000			0.0000

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0000			0.0000
Off-Road	2.4566	27.0021	13.6332	0.0341		1.2392	1.2392		1.1762	1.1762	0.0000	3,468.3778	3,468.3778	0.8963		3,487.1997
Total	2.4566	27.0021	13.6332	0.0341	4.0000e-005	1.2392	1.2393	1.0000e-005	1.1762	1.1762	0.0000	3,468.3778	3,468.3778	0.8963		3,487.1997

3.4 Micropile Foundation Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.2135	0.0000	0.2135	0.0214	0.0000	0.0214			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.2135	0.0000	0.2135	0.0214	0.0000	0.0214			0.0000			0.0000

3.5 Pier Foundation Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4000e-003	0.0000	1.4000e-003	2.1000e-004	0.0000	2.1000e-004			0.0000			0.0000
Off-Road	2.8630	31.7489	16.1178	0.0399		1.4304	1.4304		1.3520	1.3520		4,070.3756	4,070.3756	1.0779		4,093.0108
Total	2.8630	31.7489	16.1178	0.0399	1.4000e-003	1.4304	1.4318	2.1000e-004	1.3520	1.3522		4,070.3756	4,070.3756	1.0779		4,093.0108

3.5 Pier Foundation Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					12.9298	0.0000	12.9298	1.2917	0.0000	1.2917			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					12.9298	0.0000	12.9298	1.2917	0.0000	1.2917			0.0000			0.0000

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					6.3000e-004	0.0000	6.3000e-004	1.0000e-004	0.0000	1.0000e-004			0.0000			0.0000
Off-Road	2.8630	31.7489	16.1178	0.0399		1.4304	1.4304		1.3520	1.3520	0.0000	4,070.3756	4,070.3756	1.0779		4,093.0107
Total	2.8630	31.7489	16.1178	0.0399	6.3000e-004	1.4304	1.4310	1.0000e-004	1.3520	1.3521	0.0000	4,070.3756	4,070.3756	1.0779		4,093.0107

3.5 Pier Foundation Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					3.5703	0.0000	3.5703	0.3573	0.0000	0.3573			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					3.5703	0.0000	3.5703	0.3573	0.0000	0.3573			0.0000			0.0000

3.6 Direct Bury and Pole Installation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6400e-003	0.0000	1.6400e-003	2.5000e-004	0.0000	2.5000e-004			0.0000			0.0000
Off-Road	3.6794	44.7228	19.9455	0.0528		1.8073	1.8073		1.6784	1.6784		5,452.0502	5,452.0502	1.5928		5,485.4994
Total	3.6794	44.7228	19.9455	0.0528	1.6400e-003	1.8073	1.8089	2.5000e-004	1.6784	1.6787		5,452.0502	5,452.0502	1.5928		5,485.4994

3.6 Direct Bury and Pole Installation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					17.7731	0.0000	17.7731	1.7756	0.0000	1.7756			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					17.7731	0.0000	17.7731	1.7756	0.0000	1.7756			0.0000			0.0000

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					7.4000e-004	0.0000	7.4000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	3.6794	44.7228	19.9455	0.0528		1.8073	1.8073		1.6784	1.6784	0.0000	5,452.0502	5,452.0502	1.5928		5,485.4993
Total	3.6794	44.7228	19.9455	0.0528	7.4000e-004	1.8073	1.8080	1.1000e-004	1.6784	1.6785	0.0000	5,452.0502	5,452.0502	1.5928		5,485.4993

3.6 Direct Bury and Pole Installation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					4.9077	0.0000	4.9077	0.4912	0.0000	0.4912			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					4.9077	0.0000	4.9077	0.4912	0.0000	0.4912			0.0000			0.0000

3.6 Direct Bury and Pole Installation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6400e-003	0.0000	1.6400e-003	2.5000e-004	0.0000	2.5000e-004			0.0000			0.0000
Off-Road	3.3333	39.9117	18.9754	0.0528		1.5785	1.5785		1.4661	1.4661		5,369.6826	5,369.6826	1.5887		5,403.0462
Total	3.3333	39.9117	18.9754	0.0528	1.6400e-003	1.5785	1.5801	2.5000e-004	1.4661	1.4663		5,369.6826	5,369.6826	1.5887		5,403.0462

3.6 Direct Bury and Pole Installation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					96.4826	0.0000	96.4826	9.6387	0.0000	9.6387			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					96.4826	0.0000	96.4826	9.6387	0.0000	9.6387			0.0000			0.0000

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					7.4000e-004	0.0000	7.4000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	3.3333	39.9117	18.9754	0.0528		1.5785	1.5785		1.4661	1.4661	0.0000	5,369.6826	5,369.6826	1.5887		5,403.0462
Total	3.3333	39.9117	18.9754	0.0528	7.4000e-004	1.5785	1.5792	1.1000e-004	1.4661	1.4662	0.0000	5,369.6826	5,369.6826	1.5887		5,403.0462

3.6 Direct Bury and Pole Installation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					26.6416	0.0000	26.6416	2.6663	0.0000	2.6663			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					26.6416	0.0000	26.6416	2.6663	0.0000	2.6663			0.0000			0.0000

3.7 Trenching for Underground - 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	0.2772	2.6634	2.0946	2.7200e-003		0.2003	0.2003		0.1843	0.1843		278.4818	278.4818	0.0853		280.2737
Total	0.2772	2.6634	2.0946	2.7200e-003		0.2003	0.2003		0.1843	0.1843		278.4818	278.4818	0.0853		280.2737

3.7 Trenching for Underground - 2017

Unmitigated Construction Off-Site

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

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	0.2772	2.6634	2.0946	2.7200e-003		0.2003	0.2003		0.1843	0.1843	0.0000	278.4818	278.4818	0.0853		280.2737
Total	0.2772	2.6634	2.0946	2.7200e-003		0.2003	0.2003		0.1843	0.1843	0.0000	278.4818	278.4818	0.0853		280.2737

3.7 Trenching for Underground - 2017

Mitigated Construction Off-Site

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

3.8 Stringing Activities - 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	3.4115	40.1104	19.5012	0.0408		1.7173	1.7173		1.5799	1.5799		4,173.5091	4,173.5091	1.2788		4,200.3630
Total	3.4115	40.1104	19.5012	0.0408		1.7173	1.7173		1.5799	1.5799		4,173.5091	4,173.5091	1.2788		4,200.3630

3.8 Stringing Activities - 2017

Unmitigated Construction Off-Site

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

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	3.4115	40.1104	19.5012	0.0408		1.7173	1.7173		1.5799	1.5799	0.0000	4,173.5091	4,173.5091	1.2788		4,200.3630
Total	3.4115	40.1104	19.5012	0.0408		1.7173	1.7173		1.5799	1.5799	0.0000	4,173.5091	4,173.5091	1.2788		4,200.3630

3.8 Stringing Activities - 2017

Mitigated Construction Off-Site

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

3.9 Demobilization/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					0.3957	0.0000	0.3957	0.0427	0.0000	0.0427			0.0000			0.0000
Off-Road	1.9726	20.9580	10.9942	0.0222		1.0172	1.0172		0.9358	0.9358		2,268.978 1	2,268.978 1	0.6952		2,283.577 5
Total	1.9726	20.9580	10.9942	0.0222	0.3957	1.0172	1.4128	0.0427	0.9358	0.9785		2,268.978 1	2,268.978 1	0.6952		2,283.577 5

3.9 Demobilization/Cleanup - 2017

Unmitigated Construction Off-Site

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

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					0.1780	0.0000	0.1780	0.0192	0.0000	0.0192			0.0000			0.0000
Off-Road	1.9726	20.9580	10.9942	0.0222		1.0172	1.0172		0.9358	0.9358	0.0000	2,268.978 1	2,268.978 1	0.6952		2,283.577 5
Total	1.9726	20.9580	10.9942	0.0222	0.1780	1.0172	1.1952	0.0192	0.9358	0.9550	0.0000	2,268.978 1	2,268.978 1	0.6952		2,283.577 5

3.9 Demobilization/Cleanup - 2017

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

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

4.3 Trip Type Information

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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510423	0.073380	0.192408	0.132453	0.036550	0.005219	0.012745	0.022253	0.001862	0.002079	0.006550	0.000609	0.003468

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

6.0 Area Detail

6.1 Mitigation Measures Area

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

6.2 Area by SubCategory

Unmitigated

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

Mitigated

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

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

TL649 Wood-to-Steel San Diego County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Demobilization/Cleanup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Direct Bury and Pole Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Micropile Foundation Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pier Foundation Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Staging Yard Setup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stringing Activities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trenching for Underground	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WorkerCommute/WaterImport	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Aerial Lifts	Diesel	No Change	0	6	No Change	0.00
Air Compressors	Diesel	No Change	0	6	No Change	0.00
Bore/Drill Rigs	Diesel	No Change	0	7	No Change	0.00
Cranes	Diesel	No Change	0	10	No Change	0.00
Generator Sets	Diesel	No Change	0	4	No Change	0.00
Graders	Diesel	No Change	0	3	No Change	0.00
Off-Highway Trucks	Diesel	No Change	0	11	No Change	0.00
Other Construction Equipment	Diesel	No Change	0	3	No Change	0.00
Rough Terrain Forklifts	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	3	No Change	0.00
Forklifts	Diesel	No Change	0	0	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Aerial Lifts	8.99000E-003	1.48380E-001	1.88630E-001	2.90000E-004	5.62000E-003	5.17000E-003	0.00000E+000	2.68954E+001	2.68954E+001	8.19000E-003	0.00000E+000	2.70674E+001
Air Compressors	3.53000E-002	2.27610E-001	1.81690E-001	2.90000E-004	1.88100E-002	1.88100E-002	0.00000E+000	2.46389E+001	2.46389E+001	2.88000E-003	0.00000E+000	2.46994E+001
Bore/Drill Rigs	7.18500E-002	1.07992E+000	4.25510E-001	1.82000E-003	3.16500E-002	2.91200E-002	0.00000E+000	1.71251E+002	1.71251E+002	5.17300E-002	0.00000E+000	1.72337E+002
Cranes	1.38650E-001	1.64420E+000	5.81200E-001	1.14000E-003	7.40500E-002	6.81200E-002	0.00000E+000	1.06545E+002	1.06545E+002	3.23700E-002	0.00000E+000	1.07225E+002
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	2.46900E-002	1.86740E-001	1.46900E-001	2.50000E-004	1.30800E-002	1.30800E-002	0.00000E+000	2.18311E+001	2.18311E+001	2.00000E-003	0.00000E+000	2.18731E+001
Graders	1.31100E-002	1.32930E-001	6.56500E-002	8.00000E-005	7.47000E-003	6.87000E-003	0.00000E+000	7.84886E+000	7.84886E+000	2.39000E-003	0.00000E+000	7.89914E+000
Off-Highway Trucks	1.19490E-001	1.36415E+000	6.41540E-001	1.73000E-003	5.11100E-002	4.70200E-002	0.00000E+000	1.61536E+002	1.61536E+002	4.90700E-002	0.00000E+000	1.62567E+002
Other Construction Equipment	1.62600E-002	1.78700E-001	1.07880E-001	1.60000E-004	9.44000E-003	8.68000E-003	0.00000E+000	1.45597E+001	1.45597E+001	4.45000E-003	0.00000E+000	1.46533E+001
Rough Terrain Forklifts	7.15000E-003	9.10900E-002	7.92700E-002	1.20000E-004	5.06000E-003	4.65000E-003	0.00000E+000	1.09121E+001	1.09121E+001	3.29000E-003	0.00000E+000	1.09812E+001
Tractors/Loaders/Backhoes	4.53000E-003	4.35000E-002	3.39900E-002	4.00000E-005	3.28000E-003	3.02000E-003	0.00000E+000	4.10365E+000	4.10365E+000	1.26000E-003	0.00000E+000	4.13001E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Aerial Lifts	8.99000E-003	1.48380E-001	1.88630E-001	2.90000E-004	5.62000E-003	5.17000E-003	0.00000E+000	2.68954E+001	2.68954E+001	8.19000E-003	0.00000E+000	2.70674E+001
Air Compressors	3.53000E-002	2.27610E-001	1.81690E-001	2.90000E-004	1.88100E-002	1.88100E-002	0.00000E+000	2.46389E+001	2.46389E+001	2.88000E-003	0.00000E+000	2.46994E+001
Bore/Drill Rigs	7.18500E-002	1.07992E+000	4.25510E-001	1.82000E-003	3.16500E-002	2.91200E-002	0.00000E+000	1.71251E+002	1.71251E+002	5.17300E-002	0.00000E+000	1.72337E+002
Cranes	1.38650E-001	1.64419E+000	5.81200E-001	1.14000E-003	7.40500E-002	6.81200E-002	0.00000E+000	1.06545E+002	1.06545E+002	3.23700E-002	0.00000E+000	1.07225E+002
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	2.46900E-002	1.86740E-001	1.46900E-001	2.50000E-004	1.30800E-002	1.30800E-002	0.00000E+000	2.18311E+001	2.18311E+001	2.00000E-003	0.00000E+000	2.18731E+001
Graders	1.31100E-002	1.32930E-001	6.56500E-002	8.00000E-005	7.47000E-003	6.87000E-003	0.00000E+000	7.84885E+000	7.84885E+000	2.39000E-003	0.00000E+000	7.89913E+000
Off-Highway Trucks	1.19490E-001	1.36415E+000	6.41540E-001	1.73000E-003	5.11100E-002	4.70200E-002	0.00000E+000	1.61536E+002	1.61536E+002	4.90700E-002	0.00000E+000	1.62566E+002
Other Construction Equipment	1.62600E-002	1.78700E-001	1.07880E-001	1.60000E-004	9.44000E-003	8.68000E-003	0.00000E+000	1.45597E+001	1.45597E+001	4.45000E-003	0.00000E+000	1.46532E+001
Rough Terrain Forklifts	7.15000E-003	9.10900E-002	7.92700E-002	1.20000E-004	5.06000E-003	4.65000E-003	0.00000E+000	1.09120E+001	1.09120E+001	3.29000E-003	0.00000E+000	1.09812E+001
Tractors/Loaders/Backhoes	4.53000E-003	4.35000E-002	3.39900E-002	4.00000E-005	3.28000E-003	3.02000E-003	0.00000E+000	4.10365E+000	4.10365E+000	1.26000E-003	0.00000E+000	4.13001E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Aerial Lifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11543E-006	1.11543E-006	0.00000E+000	0.00000E+000	1.47779E-006
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21759E-006	1.21759E-006	0.00000E+000	0.00000E+000	1.21460E-006
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22627E-006	1.22627E-006	0.00000E+000	0.00000E+000	1.21854E-006
Cranes	0.00000E+000	6.08199E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22014E-006	1.22014E-006	0.00000E+000	0.00000E+000	1.11914E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.37418E-006	1.37418E-006	0.00000E+000	0.00000E+000	1.37155E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.27407E-006	1.27407E-006	0.00000E+000	0.00000E+000	1.26596E-006
Off-Highway Trucks	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17621E-006	1.17621E-006	0.00000E+000	0.00000E+000	1.23026E-006
Other Construction Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	6.86825E-007	6.86825E-007	0.00000E+000	0.00000E+000	1.36488E-006
Rough Terrain Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.83283E-006	1.83283E-006	0.00000E+000	0.00000E+000	9.10649E-007
Tractors/Loaders/Balkhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

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

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Demobilization/Cleanup	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.55
Demobilization/Cleanup	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Direct Bury and Pole Installation	Fugitive Dust	0.00	0.00	0.00	0.00	0.53	0.50
Direct Bury and Pole Installation	Roads	1.20	0.12	0.33	0.03	0.72	0.72
Micropile Foundation Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Micropile Foundation Construction	Roads	0.01	0.00	0.00	0.00	0.72	0.72
Pier Foundation Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.50	1.00
Pier Foundation Construction	Roads	0.36	0.04	0.10	0.01	0.72	0.72
Staging Yard Setup	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.55
Staging Yard Setup	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Stringing Activities	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Stringing Activities	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Trenching for Underground	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching for Underground	Roads	0.00	0.00	0.00	0.00	0.00	0.00
WorkerCommute/WaterImport	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
WorkerCommute/WaterImport	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

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

Operational Mobile Mitigation

Project Setting:

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

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

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

Area Mitigation

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

Energy Mitigation Measures

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

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

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

Solid Waste Mitigation

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