

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Annual

SDG&E PSRP Natural Gas Transmission Project
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
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

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Project Characteristics - Construction schedule from Chapter 3 - Project Description.

Land Use - User defined industrial land use type with no population and zero area.

Construction Phase - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

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

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

Grading - Grading - Total Area Disturbed in 2020 = 14.2 acres

Area Coating -

Energy Use -

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

Mobile Land Use Mitigation -

Operational Off-Road Equipment - From Chapter 3 - Project Description.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	NumDays	100.00	76.00
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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	4/9/2021	7/12/2020
tblConstructionPhase	PhaseEndDate	7/7/2021	7/2/2020
tblConstructionPhase	PhaseEndDate	8/27/2021	7/12/2020
tblConstructionPhase	PhaseEndDate	2/28/2022	7/2/2020
tblConstructionPhase	PhaseEndDate	7/11/2020	7/12/2020
tblConstructionPhase	PhaseEndDate	7/20/2020	1/8/2020

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tblConstructionPhase	PhaseEndDate	9/28/2020	3/10/2020
tblConstructionPhase	PhaseStartDate	9/29/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	4/10/2021	4/5/2020
tblConstructionPhase	PhaseStartDate	7/8/2021	5/22/2020
tblConstructionPhase	PhaseStartDate	8/28/2021	1/1/2020
tblConstructionPhase	PhaseStartDate	7/12/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	7/21/2020	1/1/2020
tblGrading	AcresOfGrading	249.00	14.20
tblGrading	MaterialExported	0.00	196,557.00
tblGrading	MaterialImported	0.00	167,611.00
tblLandUse	LotAcreage	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	PhaseName		Augur Bore 2
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tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
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tblTripsAndVMT	HaulingTripNumber	0.00	1,542.00
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tblTripsAndVMT	WorkerTripNumber	40.00	4.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	25.1818	21.8456
2	4-1-2020	6-30-2020	25.0719	21.7357
3	7-1-2020	9-30-2020	3.3062	2.8662
		Highest	25.1818	21.8456

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.1221	1.1639	0.7023	2.4300e-003		0.0425	0.0425		0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1221	1.1639	0.7023	2.4300e-003	0.0000	0.0425	0.0425	0.0000	0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.1221	1.1639	0.7023	2.4300e-003		0.0425	0.0425		0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1221	1.1639	0.7023	2.4300e-003	0.0000	0.0425	0.0425	0.0000	0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350

	ROG	NOx	CO	SO2	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	7/12/2020	6	166	Pipe Installation
2	Augur Bore 2	Trenching	1/1/2020	1/8/2020	6	7	
3	HDD	Trenching	1/1/2020	3/10/2020	6	60	
4	Worker Trips	Building Construction	1/1/2020	7/12/2020	6	166	
5	Hydrotest	Building Construction	4/5/2020	7/2/2020	6	76	
6	Demobilize 2	Building Construction	5/22/2020	7/12/2020	6	44	
7	Grind and Cap	Paving	1/1/2020	7/2/2020	6	158	

Acres of Grading (Site Preparation Phase): 14.2

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	28	6.00	78	0.48
Site Preparation	Air Compressors	10	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	5	7.00	221	0.50
Site Preparation	Concrete/Industrial Saws	8	5.00	81	0.73
Site Preparation	Cranes	5	7.00	231	0.29
Site Preparation	Crawler Tractors	3	8.00	212	0.43
Site Preparation	Excavators	18	7.00	158	0.38
Site Preparation	Excavators	10	7.00	158	0.38
Site Preparation	Excavators	5	6.00	158	0.38

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Site Preparation	Excavators	10	6.00	158	0.38
Site Preparation	Generator Sets	10	8.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	5	8.00	402	0.38
Site Preparation	Off-Highway Trucks	5	6.00	402	0.38
Site Preparation	Other General Industrial Equipment	5	6.00	88	0.34
Site Preparation	Other Material Handling Equipment	5	6.00	168	0.40
Site Preparation	Rollers	4	6.00	80	0.38
Site Preparation	Rough Terrain Forklifts	5	6.00	100	0.40
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	3	8.00	203	0.36
Site Preparation	Sweepers/Scrubbers	4	5.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Site Preparation	Welders	40	7.00	46	0.45
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Augur Bore 2	Bore/Drill Rigs	1	6.00	221	0.50
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	402	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
HDD	Bore/Drill Rigs	3	7.00	221	0.50
HDD	Cranes	3	6.00	231	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	172	0.42
HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40

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Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Cranes	1	7.00	231	0.29
Hydrotest	Cranes	1	7.00	231	0.29
Hydrotest	Excavators	2	6.00	158	0.38
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Generator Sets	0	8.00	84	0.74
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Hydrotest	Welders	4	7.00	46	0.45
Demobilize 2	Cranes	0	6.00	231	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Generator Sets	0	8.00	84	0.74
Demobilize 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demobilize 2	Welders	0	8.00	46	0.45
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	6.00	130	0.42
Grind and Cap	Paving Equipment	4	5.00	132	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Worker Trips	Cranes	0	6.00	231	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Generator Sets	0	8.00	84	0.74
Worker Trips	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Worker Trips	Welders	0	8.00	46	0.45

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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
Site Preparation	215	68.00	121.00	32,007.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	0.00	0.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	0.00	0.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Hydrotest	12	2.00	6.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	1,542.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Annual

3.2 Site Preparation - 2020

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					0.0331	0.0000	0.0331	4.6900e-003	0.0000	4.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6413	38.6895	37.7513	0.0689		1.9956	1.9956		1.9038	1.9038	0.0000	5,909.8365	5,909.8365	1.4339	0.0000	5,945.6841
Total	4.6413	38.6895	37.7513	0.0689	0.0331	1.9956	2.0287	4.6900e-003	1.9038	1.9085	0.0000	5,909.8365	5,909.8365	1.4339	0.0000	5,945.6841

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	0.2268	7.5795	1.8545	0.0233	8.9316	0.0278	8.9594	0.9864	0.0266	1.0129	0.0000	2,310.4611	2,310.4611	0.1921	0.0000	2,315.2623
Vendor	0.1424	2.2756	0.7494	0.0104	0.3847	0.0402	0.4249	0.1157	0.0385	0.1541	0.0000	980.2200	980.2200	9.7700e-003	0.0000	980.4642
Worker	0.0478	0.0394	0.3679	1.2300e-003	0.1256	8.4000e-004	0.1265	0.0334	7.7000e-004	0.0341	0.0000	111.5799	111.5799	3.1600e-003	0.0000	111.6588
Total	0.4170	9.8945	2.9718	0.0349	9.4419	0.0688	9.5107	1.1354	0.0658	1.2012	0.0000	3,402.2610	3,402.2610	0.2050	0.0000	3,407.3853

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3.2 Site Preparation - 2020

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					0.0149	0.0000	0.0149	2.1100e-003	0.0000	2.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7379	34.4927	44.2539	0.0689		1.9079	1.9079		1.9079	1.9079	0.0000	5,909.8295	5,909.8295	1.4339	0.0000	5,945.6770
Total	1.7379	34.4927	44.2539	0.0689	0.0149	1.9079	1.9228	2.1100e-003	1.9079	1.9100	0.0000	5,909.8295	5,909.8295	1.4339	0.0000	5,945.6770

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	0.2268	7.5795	1.8545	0.0233	4.3180	0.0278	4.3458	0.5260	0.0266	0.5525	0.0000	2,310.4611	2,310.4611	0.1921	0.0000	2,315.2623
Vendor	0.1424	2.2756	0.7494	0.0104	0.3847	0.0402	0.4249	0.1157	0.0385	0.1541	0.0000	980.2200	980.2200	9.7700e-003	0.0000	980.4642
Worker	0.0478	0.0394	0.3679	1.2300e-003	0.1256	8.4000e-004	0.1265	0.0334	7.7000e-004	0.0341	0.0000	111.5799	111.5799	3.1600e-003	0.0000	111.6588
Total	0.4170	9.8945	2.9718	0.0349	4.8283	0.0688	4.8971	0.6750	0.0658	0.7408	0.0000	3,402.2610	3,402.2610	0.2050	0.0000	3,407.3853

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3.5 Worker Trips - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0282	0.4514	0.1487	2.0600e-003	0.0763	7.9700e-003	0.0843	0.0229	7.6300e-003	0.0306	0.0000	194.4238	194.4238	1.9400e-003	0.0000	194.4722
Worker	0.4220	0.3474	3.2464	0.0109	1.1084	7.4200e-003	1.1159	0.2944	6.8400e-003	0.3013	0.0000	984.5287	984.5287	0.0278	0.0000	985.2247
Total	0.4502	0.7987	3.3951	0.0129	1.1847	0.0154	1.2001	0.3174	0.0145	0.3318	0.0000	1,178.9525	1,178.9525	0.0298	0.0000	1,179.6969

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3.5 Worker Trips - 2020

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0282	0.4514	0.1487	2.0600e-003	0.0763	7.9700e-003	0.0843	0.0229	7.6300e-003	0.0306	0.0000	194.4238	194.4238	1.9400e-003	0.0000	194.4722
Worker	0.4220	0.3474	3.2464	0.0109	1.1084	7.4200e-003	1.1159	0.2944	6.8400e-003	0.3013	0.0000	984.5287	984.5287	0.0278	0.0000	985.2247
Total	0.4502	0.7987	3.3951	0.0129	1.1847	0.0154	1.2001	0.3174	0.0145	0.3318	0.0000	1,178.9525	1,178.9525	0.0298	0.0000	1,179.6969

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3.6 Hydrotect - 2020

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	0.1403	1.0936	0.9799	1.7300e-003		0.0570	0.0570		0.0553	0.0553	0.0000	145.3793	145.3793	0.0271	0.0000	146.0558
Total	0.1403	1.0936	0.9799	1.7300e-003		0.0570	0.0570		0.0553	0.0553	0.0000	145.3793	145.3793	0.0271	0.0000	146.0558

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2300e-003	0.0517	0.0170	2.4000e-004	8.7300e-003	9.1000e-004	9.6500e-003	2.6300e-003	8.7000e-004	3.5000e-003	0.0000	22.2533	22.2533	2.2000e-004	0.0000	22.2589
Worker	6.4000e-004	5.3000e-004	4.9500e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5025	1.5025	4.0000e-005	0.0000	1.5036
Total	3.8700e-003	0.0522	0.0220	2.6000e-004	0.0104	9.2000e-004	0.0114	3.0800e-003	8.8000e-004	3.9600e-003	0.0000	23.7558	23.7558	2.6000e-004	0.0000	23.7624

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3.6 Hydrotect - 2020

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	0.0449	0.8701	1.0629	1.7300e-003		0.0499	0.0499		0.0499	0.0499	0.0000	145.3791	145.3791	0.0271	0.0000	146.0556
Total	0.0449	0.8701	1.0629	1.7300e-003		0.0499	0.0499		0.0499	0.0499	0.0000	145.3791	145.3791	0.0271	0.0000	146.0556

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2300e-003	0.0517	0.0170	2.4000e-004	8.7300e-003	9.1000e-004	9.6500e-003	2.6300e-003	8.7000e-004	3.5000e-003	0.0000	22.2533	22.2533	2.2000e-004	0.0000	22.2589
Worker	6.4000e-004	5.3000e-004	4.9500e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5025	1.5025	4.0000e-005	0.0000	1.5036
Total	3.8700e-003	0.0522	0.0220	2.6000e-004	0.0104	9.2000e-004	0.0114	3.0800e-003	8.8000e-004	3.9600e-003	0.0000	23.7558	23.7558	2.6000e-004	0.0000	23.7624

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3.7 Demobilize 2 - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7400e-003	0.0598	0.0197	2.7000e-004	0.0101	1.0600e-003	0.0112	3.0400e-003	1.0100e-003	4.0500e-003	0.0000	25.7670	25.7670	2.6000e-004	0.0000	25.7734
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7400e-003	0.0598	0.0197	2.7000e-004	0.0101	1.0600e-003	0.0112	3.0400e-003	1.0100e-003	4.0500e-003	0.0000	25.7670	25.7670	2.6000e-004	0.0000	25.7734

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3.7 Demobilize 2 - 2020

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7400e-003	0.0598	0.0197	2.7000e-004	0.0101	1.0600e-003	0.0112	3.0400e-003	1.0100e-003	4.0500e-003	0.0000	25.7670	25.7670	2.6000e-004	0.0000	25.7734
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7400e-003	0.0598	0.0197	2.7000e-004	0.0101	1.0600e-003	0.0112	3.0400e-003	1.0100e-003	4.0500e-003	0.0000	25.7670	25.7670	2.6000e-004	0.0000	25.7734

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3.8 Grind and Cap - 2020

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	0.2529	2.1261	2.2014	3.3100e-003		0.1371	0.1371		0.1299	0.1299	0.0000	288.4826	288.4826	0.0636	0.0000	290.0724
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2529	2.1261	2.2014	3.3100e-003		0.1371	0.1371		0.1299	0.1299	0.0000	288.4826	288.4826	0.0636	0.0000	290.0724

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	0.0109	0.3652	0.0893	1.1200e-003	0.4303	1.3400e-003	0.4316	0.0475	1.2800e-003	0.0488	0.0000	111.3110	111.3110	9.2500e-003	0.0000	111.5423
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6800e-003	2.2000e-003	0.0206	7.0000e-005	7.0300e-003	5.0000e-005	7.0800e-003	1.8700e-003	4.0000e-005	1.9100e-003	0.0000	6.2472	6.2472	1.8000e-004	0.0000	6.2516
Total	0.0136	0.3674	0.1099	1.1900e-003	0.4373	1.3900e-003	0.4387	0.0494	1.3200e-003	0.0507	0.0000	117.5582	117.5582	9.4300e-003	0.0000	117.7939

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3.8 Grind and Cap - 2020

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	0.0751	1.6460	2.3165	3.3100e-003		0.1070	0.1070		0.1070	0.1070	0.0000	288.4822	288.4822	0.0636	0.0000	290.0721
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0751	1.6460	2.3165	3.3100e-003		0.1070	0.1070		0.1070	0.1070	0.0000	288.4822	288.4822	0.0636	0.0000	290.0721

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	0.0109	0.3652	0.0893	1.1200e-003	0.2080	1.3400e-003	0.2094	0.0253	1.2800e-003	0.0266	0.0000	111.3110	111.3110	9.2500e-003	0.0000	111.5423
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6800e-003	2.2000e-003	0.0206	7.0000e-005	7.0300e-003	5.0000e-005	7.0800e-003	1.8700e-003	4.0000e-005	1.9100e-003	0.0000	6.2472	6.2472	1.8000e-004	0.0000	6.2516
Total	0.0136	0.3674	0.1099	1.1900e-003	0.2151	1.3900e-003	0.2165	0.0272	1.3200e-003	0.0285	0.0000	117.5582	117.5582	9.4300e-003	0.0000	117.7939

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

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

4.3 Trip Type Information

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Annual

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

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
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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6.2 Area by SubCategory

Mitigated

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

7.0 Water Detail

7.1 Mitigation Measures Water

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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8.2 Waste by Land Use

Unmitigated

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

Mitigated

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

9.0 Operational Offroad

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	63	0.31	Diesel
Cranes	1	10.00	1	231	0.29	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	6	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	4	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	2	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	240	402	0.38	Diesel
Off-Highway Trucks	1	10.00	12	402	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

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UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Aerial Lifts	2.0000e-005	4.0000e-004	6.8000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0922	0.0922	3.0000e-005	0.0000	0.0930
Cranes	2.8000e-004	3.3700e-003	1.3200e-003	0.0000		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.3168	0.3168	1.0000e-004	0.0000	0.3194
Off-Highway Trucks	0.1214	1.1579	0.6977	2.4200e-003		0.0422	0.0422		0.0388	0.0388	0.0000	212.4152	212.4152	0.0687	0.0000	214.1327
Tractors/Loaders/Backhoes	1.3000e-004	1.3200e-003	1.4200e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.1705	0.1705	6.0000e-005	0.0000	0.1719
Welders	2.1000e-004	9.8000e-004	1.1000e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1176	0.1176	2.0000e-005	0.0000	0.1181
Total	0.1221	1.1639	0.7022	2.4200e-003		0.0425	0.0425		0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Annual

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

SDG&E PSRP Natural Gas Transmission Project
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Project Characteristics - Construction schedule from Chapter 3 - Project Description.

Land Use - User defined industrial land use type with no population and zero area.

Construction Phase - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

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

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

Grading - Grading - Total Area Disturbed in 2020 = 14.2 acres

Area Coating -

Energy Use -

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

Mobile Land Use Mitigation -

Operational Off-Road Equipment - From Chapter 3 - Project Description.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	41.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	166.00
tblConstructionPhase	NumDays	100.00	76.00
tblConstructionPhase	NumDays	100.00	44.00
tblConstructionPhase	NumDays	5.00	158.00
tblConstructionPhase	NumDays	1.00	166.00
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	4/9/2021	7/12/2020
tblConstructionPhase	PhaseEndDate	7/7/2021	7/2/2020
tblConstructionPhase	PhaseEndDate	8/27/2021	7/12/2020
tblConstructionPhase	PhaseEndDate	2/28/2022	7/2/2020
tblConstructionPhase	PhaseEndDate	7/11/2020	7/12/2020
tblConstructionPhase	PhaseEndDate	7/20/2020	1/8/2020

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

tblConstructionPhase	PhaseEndDate	9/28/2020	3/10/2020
tblConstructionPhase	PhaseStartDate	9/29/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	4/10/2021	4/5/2020
tblConstructionPhase	PhaseStartDate	7/8/2021	5/22/2020
tblConstructionPhase	PhaseStartDate	8/28/2021	1/1/2020
tblConstructionPhase	PhaseStartDate	7/12/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	7/21/2020	1/1/2020
tblGrading	AcresOfGrading	249.00	14.20
tblGrading	MaterialExported	0.00	196,557.00
tblGrading	MaterialImported	0.00	167,611.00
tblLandUse	LotAcreage	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	27.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	28.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00

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tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Augur Bore 2
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00

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tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00

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tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	24,570.00	32,007.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,542.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripNumber	0.00	121.00
tblTripsAndVMT	VendorTripNumber	0.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00

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tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripNumber	538.00	68.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	60.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	600.00
tblTripsAndVMT	WorkerTripNumber	40.00	4.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00

2.0 Emissions Summary

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	17.8834	170.2079	104.3229	0.3466		6.3298	6.3298		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665
Total	17.8834	170.2079	104.3230	0.3466	0.0000	6.3298	6.3298	0.0000	5.8321	5.8321		33,502.6197	33,502.6197	10.7899	0.0000	33,772.3668

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	17.8834	170.2079	104.3229	0.3466		6.3298	6.3298		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665
Total	17.8834	170.2079	104.3230	0.3466	0.0000	6.3298	6.3298	0.0000	5.8321	5.8321		33,502.6197	33,502.6197	10.7899	0.0000	33,772.3668

	ROG	NOx	CO	SO2	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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	7/12/2020	6	166	Pipe Installation
2	Augur Bore 2	Trenching	1/1/2020	1/8/2020	6	7	
3	HDD	Trenching	1/1/2020	3/10/2020	6	60	
4	Worker Trips	Building Construction	1/1/2020	7/12/2020	6	166	
5	Hydrotest	Building Construction	4/5/2020	7/2/2020	6	76	
6	Demobilize 2	Building Construction	5/22/2020	7/12/2020	6	44	
7	Grind and Cap	Paving	1/1/2020	7/2/2020	6	158	

Acres of Grading (Site Preparation Phase): 14.2

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	28	6.00	78	0.48
Site Preparation	Air Compressors	10	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	5	7.00	221	0.50
Site Preparation	Concrete/Industrial Saws	8	5.00	81	0.73
Site Preparation	Cranes	5	7.00	231	0.29
Site Preparation	Crawler Tractors	3	8.00	212	0.43
Site Preparation	Excavators	18	7.00	158	0.38
Site Preparation	Excavators	10	7.00	158	0.38
Site Preparation	Excavators	5	6.00	158	0.38

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Site Preparation	Excavators	10	6.00	158	0.38
Site Preparation	Generator Sets	10	8.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	5	8.00	402	0.38
Site Preparation	Off-Highway Trucks	5	6.00	402	0.38
Site Preparation	Other General Industrial Equipment	5	6.00	88	0.34
Site Preparation	Other Material Handling Equipment	5	6.00	168	0.40
Site Preparation	Rollers	4	6.00	80	0.38
Site Preparation	Rough Terrain Forklifts	5	6.00	100	0.40
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	3	8.00	203	0.36
Site Preparation	Sweepers/Scrubbers	4	5.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Site Preparation	Welders	40	7.00	46	0.45
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Augur Bore 2	Bore/Drill Rigs	1	6.00	221	0.50
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	402	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
HDD	Bore/Drill Rigs	3	7.00	221	0.50
HDD	Cranes	3	6.00	231	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	172	0.42
HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Cranes	1	7.00	231	0.29
Hydrotest	Cranes	1	7.00	231	0.29
Hydrotest	Excavators	2	6.00	158	0.38
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Generator Sets	0	8.00	84	0.74
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Hydrotest	Welders	4	7.00	46	0.45
Demobilize 2	Cranes	0	6.00	231	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Generator Sets	0	8.00	84	0.74
Demobilize 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demobilize 2	Welders	0	8.00	46	0.45
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	6.00	130	0.42
Grind and Cap	Paving Equipment	4	5.00	132	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Worker Trips	Cranes	0	6.00	231	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Generator Sets	0	8.00	84	0.74
Worker Trips	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Worker Trips	Welders	0	8.00	46	0.45

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

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
Site Preparation	215	68.00	121.00	32,007.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	0.00	0.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	0.00	0.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Hydrotest	12	2.00	6.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	1,542.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.2 Site Preparation - 2020

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					0.3990	0.0000	0.3990	0.0565	0.0000	0.0565			0.0000			0.0000
Off-Road	55.9191	466.1385	454.8350	0.8296		24.0436	24.0436		22.9369	22.9369		78,487.706 3	78,487.706 3	19.0435		78,963.792 9
Total	55.9191	466.1385	454.8350	0.8296	0.3990	24.0436	24.4426	0.0565	22.9369	22.9934		78,487.706 3	78,487.706 3	19.0435		78,963.792 9

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	2.7153	88.9034	22.0545	0.2815	120.1869	0.3330	120.5199	13.1589	0.3186	13.4775		30,803.880 1	30,803.880 1	2.5293		30,867.111 5
Vendor	1.7044	26.5009	8.9606	0.1250	4.7221	0.4842	5.2064	1.4150	0.4632	1.8782		13,020.522 6	13,020.522 6	0.1301		13,023.776 1
Worker	0.5577	0.4296	4.8341	0.0157	1.5505	0.0101	1.5606	0.4111	9.3400e-003	0.4204		1,563.9531	1,563.9531	0.0445		1,565.0662
Total	4.9774	115.8339	35.8492	0.4222	126.4595	0.8274	127.2869	14.9850	0.7912	15.7761		45,388.355 8	45,388.355 8	2.7039		45,455.953 8

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.2 Site Preparation - 2020

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					0.1795	0.0000	0.1795	0.0254	0.0000	0.0254			0.0000			0.0000
Off-Road	20.9385	415.5757	533.1797	0.8296		22.9865	22.9865		22.9865	22.9865	0.0000	78,487.7063	78,487.7063	19.0435		78,963.7928
Total	20.9385	415.5757	533.1797	0.8296	0.1795	22.9865	23.1660	0.0254	22.9865	23.0119	0.0000	78,487.7063	78,487.7063	19.0435		78,963.7928

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	2.7153	88.9034	22.0545	0.2815	57.7599	0.3330	58.0929	6.9295	0.3186	7.2481		30,803.8801	30,803.8801	2.5293		30,867.1115
Vendor	1.7044	26.5009	8.9606	0.1250	4.7221	0.4842	5.2064	1.4150	0.4632	1.8782		13,020.5226	13,020.5226	0.1301		13,023.7761
Worker	0.5577	0.4296	4.8341	0.0157	1.5505	0.0101	1.5606	0.4111	9.3400e-003	0.4204		1,563.9531	1,563.9531	0.0445		1,565.0662
Total	4.9774	115.8339	35.8492	0.4222	64.0325	0.8274	64.8599	8.7555	0.7912	9.5467		45,388.3558	45,388.3558	2.7039		45,455.9538

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.3 Augur Bore 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3397	21.2526	13.0437	0.0345		0.9009	0.9009		0.8498	0.8498		3,263.7376	3,263.7376	0.9226		3,286.8016
Total	2.3397	21.2526	13.0437	0.0345		0.9009	0.9009		0.8498	0.8498		3,263.7376	3,263.7376	0.9226		3,286.8016

Unmitigated Construction Off-Site

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.3 Augur Bore 2 - 2020

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	0.9107	17.1910	18.8818	0.0345		0.7624	0.7624		0.7624	0.7624	0.0000	3,263.7376	3,263.7376	0.9226		3,286.8016
Total	0.9107	17.1910	18.8818	0.0345		0.7624	0.7624		0.7624	0.7624	0.0000	3,263.7376	3,263.7376	0.9226		3,286.8016

Mitigated Construction Off-Site

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.4 HDD - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.0410	70.0022	59.0619	0.1196		3.4639	3.4639		3.3337	3.3337		11,450.3425	11,450.3425	2.2195		11,505.8293
Total	7.0410	70.0022	59.0619	0.1196		3.4639	3.4639		3.3337	3.3337		11,450.3425	11,450.3425	2.2195		11,505.8293

Unmitigated Construction Off-Site

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.4 HDD - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6770	56.4549	73.9891	0.1196		3.2071	3.2071		3.2071	3.2071	0.0000	11,450.3425	11,450.3425	2.2195		11,505.8293
Total	2.6770	56.4549	73.9891	0.1196		3.2071	3.2071		3.2071	3.2071	0.0000	11,450.3425	11,450.3425	2.2195		11,505.8293

Mitigated Construction Off-Site

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.5 Worker Trips - 2020

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3381	5.2564	1.7773	0.0248	0.9366	0.0961	1.0327	0.2807	0.0919	0.3725		2,582.5830	2,582.5830	0.0258		2,583.2283
Worker	4.9212	3.7902	42.6535	0.1384	13.6808	0.0894	13.7702	3.6274	0.0824	3.7098		13,799.5861	13,799.5861	0.3929		13,809.4080
Total	5.2593	9.0466	44.4308	0.1632	14.6174	0.1855	14.8028	3.9080	0.1743	4.0823		16,382.1691	16,382.1691	0.4187		16,392.6363

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.5 Worker Trips - 2020

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3381	5.2564	1.7773	0.0248	0.9366	0.0961	1.0327	0.2807	0.0919	0.3725		2,582.5830	2,582.5830	0.0258		2,583.2283
Worker	4.9212	3.7902	42.6535	0.1384	13.6808	0.0894	13.7702	3.6274	0.0824	3.7098		13,799.5861	13,799.5861	0.3929		13,809.4080
Total	5.2593	9.0466	44.4308	0.1632	14.6174	0.1855	14.8028	3.9080	0.1743	4.0823		16,382.1691	16,382.1691	0.4187		16,392.6363

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.6 Hydrotect - 2020

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	3.6917	28.7787	25.7861	0.0454		1.5009	1.5009		1.4558	1.4558		4,217.1908	4,217.1908	0.7849		4,236.8135
Total	3.6917	28.7787	25.7861	0.0454		1.5009	1.5009		1.4558	1.4558		4,217.1908	4,217.1908	0.7849		4,236.8135

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0845	1.3141	0.4443	6.2000e-003	0.2342	0.0240	0.2582	0.0702	0.0230	0.0931		645.6458	645.6458	6.4500e-003		645.8071
Worker	0.0164	0.0126	0.1422	4.6000e-004	0.0456	3.0000e-004	0.0459	0.0121	2.7000e-004	0.0124		45.9986	45.9986	1.3100e-003		46.0314
Total	0.1009	1.3267	0.5865	6.6600e-003	0.2798	0.0243	0.3041	0.0823	0.0232	0.1055		691.6444	691.6444	7.7600e-003		691.8384

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.6 Hydrotect - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1815	22.8981	27.9699	0.0454		1.3133	1.3133		1.3133	1.3133	0.0000	4,217.1908	4,217.1908	0.7849		4,236.8135
Total	1.1815	22.8981	27.9699	0.0454		1.3133	1.3133		1.3133	1.3133	0.0000	4,217.1908	4,217.1908	0.7849		4,236.8135

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0845	1.3141	0.4443	6.2000e-003	0.2342	0.0240	0.2582	0.0702	0.0230	0.0931		645.6458	645.6458	6.4500e-003		645.8071
Worker	0.0164	0.0126	0.1422	4.6000e-004	0.0456	3.0000e-004	0.0459	0.0121	2.7000e-004	0.0124		45.9986	45.9986	1.3100e-003		46.0314
Total	0.1009	1.3267	0.5865	6.6600e-003	0.2798	0.0243	0.3041	0.0823	0.0232	0.1055		691.6444	691.6444	7.7600e-003		691.8384

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.7 Demobilize 2 - 2020

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1690	2.6282	0.8887	0.0124	0.4683	0.0480	0.5163	0.1403	0.0459	0.1863		1,291.2915	1,291.2915	0.0129		1,291.6142
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1690	2.6282	0.8887	0.0124	0.4683	0.0480	0.5163	0.1403	0.0459	0.1863		1,291.2915	1,291.2915	0.0129		1,291.6142

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.7 Demobilize 2 - 2020

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1690	2.6282	0.8887	0.0124	0.4683	0.0480	0.5163	0.1403	0.0459	0.1863		1,291.2915	1,291.2915	0.0129		1,291.6142
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1690	2.6282	0.8887	0.0124	0.4683	0.0480	0.5163	0.1403	0.0459	0.1863		1,291.2915	1,291.2915	0.0129		1,291.6142

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.8 Grind and Cap - 2020

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	3.2007	26.9128	27.8652	0.0419		1.7354	1.7354		1.6448	1.6448		4,025.2861	4,025.2861	0.8873		4,047.4694
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.2007	26.9128	27.8652	0.0419		1.7354	1.7354		1.6448	1.6448		4,025.2861	4,025.2861	0.8873		4,047.4694

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	0.1374	4.5000	1.1163	0.0143	6.0834	0.0169	6.1003	0.6661	0.0161	0.6822		1,559.1785	1,559.1785	0.1280		1,562.3790
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0253	0.2844	9.2000e-004	0.0912	6.0000e-004	0.0918	0.0242	5.5000e-004	0.0247		91.9972	91.9972	2.6200e-003		92.0627
Total	0.1703	4.5252	1.4007	0.0152	6.1746	0.0175	6.1921	0.6902	0.0167	0.7069		1,651.1757	1,651.1757	0.1306		1,654.4417

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.8 Grind and Cap - 2020

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	0.9510	20.8350	29.3232	0.0419		1.3540	1.3540		1.3540	1.3540	0.0000	4,025.2861	4,025.2861	0.8873		4,047.4694
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9510	20.8350	29.3232	0.0419		1.3540	1.3540		1.3540	1.3540	0.0000	4,025.2861	4,025.2861	0.8873		4,047.4694

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	0.1374	4.5000	1.1163	0.0143	2.9236	0.0169	2.9405	0.3507	0.0161	0.3669		1,559.1785	1,559.1785	0.1280		1,562.3790
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0328	0.0253	0.2844	9.2000e-004	0.0912	6.0000e-004	0.0918	0.0242	5.5000e-004	0.0247		91.9972	91.9972	2.6200e-003		92.0627
Total	0.1703	4.5252	1.4007	0.0152	3.0148	0.0175	3.0323	0.3749	0.0167	0.3916		1,651.1757	1,651.1757	0.1306		1,654.4417

4.0 Operational Detail - Mobile

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

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

4.3 Trip Type Information

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	63	0.31	Diesel
Cranes	1	10.00	1	231	0.29	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	6	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	4	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	2	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	240	402	0.38	Diesel
Off-Highway Trucks	1	10.00	12	402	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Aerial Lifts	0.0495	0.8045	1.3678	2.1000e-003		0.0179	0.0179		0.0165	0.0165		203.2748	203.2748	0.0657		204.9184
Cranes	0.5668	6.7394	2.6442	7.2100e-003		0.2778	0.2778		0.2556	0.2556		698.4870	698.4870	0.2259		704.1347
Off-Highway Trucks	16.5777	158.0683	95.2525	0.3302		5.7590	5.7590		5.2983	5.2983		31,965.5498	31,965.5498	10.3383		32,224.0075
Tractors/Loaders/Backhoes	0.2619	2.6314	2.8496	3.8800e-003		0.1664	0.1664		0.1531	0.1531		375.9606	375.9606	0.1216		379.0005
Welders	0.4276	1.9642	2.2088	3.1900e-003		0.1086	0.1086		0.1086	0.1086		259.3472	259.3472	0.0383		260.3055
Total	17.8834	170.2079	104.3229	0.3466		6.3297	6.3297		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

SDG&E PSRP Natural Gas Transmission Project
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Project Characteristics - Construction schedule from Chapter 3 - Project Description.

Land Use - User defined industrial land use type with no population and zero area.

Construction Phase - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

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

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

Grading - Grading - Total Area Disturbed in 2020 = 14.2 acres

Area Coating -

Energy Use -

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

Mobile Land Use Mitigation -

Operational Off-Road Equipment - From Chapter 3 - Project Description.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	41.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	166.00
tblConstructionPhase	NumDays	100.00	76.00
tblConstructionPhase	NumDays	100.00	44.00
tblConstructionPhase	NumDays	5.00	158.00
tblConstructionPhase	NumDays	1.00	166.00
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	4/9/2021	7/12/2020
tblConstructionPhase	PhaseEndDate	7/7/2021	7/2/2020
tblConstructionPhase	PhaseEndDate	8/27/2021	7/12/2020
tblConstructionPhase	PhaseEndDate	2/28/2022	7/2/2020
tblConstructionPhase	PhaseEndDate	7/11/2020	7/12/2020
tblConstructionPhase	PhaseEndDate	7/20/2020	1/8/2020

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tblConstructionPhase	PhaseEndDate	9/28/2020	3/10/2020
tblConstructionPhase	PhaseStartDate	9/29/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	4/10/2021	4/5/2020
tblConstructionPhase	PhaseStartDate	7/8/2021	5/22/2020
tblConstructionPhase	PhaseStartDate	8/28/2021	1/1/2020
tblConstructionPhase	PhaseStartDate	7/12/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	7/21/2020	1/1/2020
tblGrading	AcresOfGrading	249.00	14.20
tblGrading	MaterialExported	0.00	196,557.00
tblGrading	MaterialImported	0.00	167,611.00
tblLandUse	LotAcreage	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	27.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	28.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00

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tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Augur Bore 2
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00

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tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00

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tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	24,570.00	32,007.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,542.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripNumber	0.00	121.00
tblTripsAndVMT	VendorTripNumber	0.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripNumber	538.00	68.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	60.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	600.00
tblTripsAndVMT	WorkerTripNumber	40.00	4.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00

2.0 Emissions Summary

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	17.8834	170.2079	104.3229	0.3466		6.3298	6.3298		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665
Total	17.8834	170.2079	104.3230	0.3466	0.0000	6.3298	6.3298	0.0000	5.8321	5.8321		33,502.6197	33,502.6197	10.7899	0.0000	33,772.3668

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	17.8834	170.2079	104.3229	0.3466		6.3298	6.3298		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665
Total	17.8834	170.2079	104.3230	0.3466	0.0000	6.3298	6.3298	0.0000	5.8321	5.8321		33,502.6197	33,502.6197	10.7899	0.0000	33,772.3668

	ROG	NOx	CO	SO2	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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	7/12/2020	6	166	Pipe Installation
2	Augur Bore 2	Trenching	1/1/2020	1/8/2020	6	7	
3	HDD	Trenching	1/1/2020	3/10/2020	6	60	
4	Worker Trips	Building Construction	1/1/2020	7/12/2020	6	166	
5	Hydrotest	Building Construction	4/5/2020	7/2/2020	6	76	
6	Demobilize 2	Building Construction	5/22/2020	7/12/2020	6	44	
7	Grind and Cap	Paving	1/1/2020	7/2/2020	6	158	

Acres of Grading (Site Preparation Phase): 14.2

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	28	6.00	78	0.48
Site Preparation	Air Compressors	10	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	5	7.00	221	0.50
Site Preparation	Concrete/Industrial Saws	8	5.00	81	0.73
Site Preparation	Cranes	5	7.00	231	0.29
Site Preparation	Crawler Tractors	3	8.00	212	0.43
Site Preparation	Excavators	18	7.00	158	0.38
Site Preparation	Excavators	10	7.00	158	0.38
Site Preparation	Excavators	5	6.00	158	0.38

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Site Preparation	Excavators	10	6.00	158	0.38
Site Preparation	Generator Sets	10	8.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	5	8.00	402	0.38
Site Preparation	Off-Highway Trucks	5	6.00	402	0.38
Site Preparation	Other General Industrial Equipment	5	6.00	88	0.34
Site Preparation	Other Material Handling Equipment	5	6.00	168	0.40
Site Preparation	Rollers	4	6.00	80	0.38
Site Preparation	Rough Terrain Forklifts	5	6.00	100	0.40
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	3	8.00	203	0.36
Site Preparation	Sweepers/Scrubbers	4	5.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Site Preparation	Welders	40	7.00	46	0.45
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Augur Bore 2	Bore/Drill Rigs	1	6.00	221	0.50
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	402	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
HDD	Bore/Drill Rigs	3	7.00	221	0.50
HDD	Cranes	3	6.00	231	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	172	0.42
HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Hydrotest	Air Compressors	2	8.00	78	0.48
Hydrotest	Cranes	1	7.00	231	0.29
Hydrotest	Cranes	1	7.00	231	0.29
Hydrotest	Excavators	2	6.00	158	0.38
Hydrotest	Forklifts	0	6.00	89	0.20
Hydrotest	Generator Sets	0	8.00	84	0.74
Hydrotest	Pumps	1	7.00	84	0.74
Hydrotest	Pumps	1	6.00	84	0.74
Hydrotest	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Hydrotest	Welders	4	7.00	46	0.45
Demobilize 2	Cranes	0	6.00	231	0.29
Demobilize 2	Forklifts	0	6.00	89	0.20
Demobilize 2	Generator Sets	0	8.00	84	0.74
Demobilize 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demobilize 2	Welders	0	8.00	46	0.45
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	6.00	130	0.42
Grind and Cap	Paving Equipment	4	5.00	132	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Worker Trips	Cranes	0	6.00	231	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Generator Sets	0	8.00	84	0.74
Worker Trips	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Worker Trips	Welders	0	8.00	46	0.45

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

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
Site Preparation	215	68.00	121.00	32,007.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	0.00	0.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	0.00	0.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Hydrotest	12	2.00	6.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 2	0	0.00	12.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	1,542.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.2 Site Preparation - 2020

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					0.3990	0.0000	0.3990	0.0565	0.0000	0.0565			0.0000			0.0000
Off-Road	55.9191	466.1385	454.8350	0.8296		24.0436	24.0436		22.9369	22.9369		78,487.706 3	78,487.706 3	19.0435		78,963.792 9
Total	55.9191	466.1385	454.8350	0.8296	0.3990	24.0436	24.4426	0.0565	22.9369	22.9934		78,487.706 3	78,487.706 3	19.0435		78,963.792 9

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	2.7568	90.6676	22.7745	0.2789	120.1869	0.3366	120.5235	13.1589	0.3220	13.4809		30,520.613 7	30,520.613 7	2.5785		30,585.075 5
Vendor	1.7476	27.3131	9.0905	0.1249	4.7221	0.4845	5.2067	1.4150	0.4635	1.8785		13,014.902 2	13,014.902 2	0.1298		13,018.147 4
Worker	0.6616	0.4818	4.3823	0.0147	1.5505	0.0101	1.5606	0.4111	9.3400e-003	0.4204		1,467.0303	1,467.0303	0.0414		1,468.0657
Total	5.1660	118.4625	36.2473	0.4186	126.4595	0.8313	127.2908	14.9850	0.7949	15.7798		45,002.546 2	45,002.546 2	2.7497		45,071.288 6

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.2 Site Preparation - 2020

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					0.1795	0.0000	0.1795	0.0254	0.0000	0.0254			0.0000			0.0000
Off-Road	20.9385	415.5757	533.1797	0.8296		22.9865	22.9865		22.9865	22.9865	0.0000	78,487.7063	78,487.7063	19.0435		78,963.7928
Total	20.9385	415.5757	533.1797	0.8296	0.1795	22.9865	23.1660	0.0254	22.9865	23.0119	0.0000	78,487.7063	78,487.7063	19.0435		78,963.7928

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	2.7568	90.6676	22.7745	0.2789	57.7599	0.3366	58.0965	6.9295	0.3220	7.2515		30,520.6137	30,520.6137	2.5785		30,585.0755
Vendor	1.7476	27.3131	9.0905	0.1249	4.7221	0.4845	5.2067	1.4150	0.4635	1.8785		13,014.9022	13,014.9022	0.1298		13,018.1474
Worker	0.6616	0.4818	4.3823	0.0147	1.5505	0.0101	1.5606	0.4111	9.3400e-003	0.4204		1,467.0303	1,467.0303	0.0414		1,468.0657
Total	5.1660	118.4625	36.2473	0.4186	64.0325	0.8313	64.8638	8.7555	0.7949	9.5504		45,002.5462	45,002.5462	2.7497		45,071.2886

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.3 Augur Bore 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3397	21.2526	13.0437	0.0345		0.9009	0.9009		0.8498	0.8498		3,263.7376	3,263.7376	0.9226		3,286.8016
Total	2.3397	21.2526	13.0437	0.0345		0.9009	0.9009		0.8498	0.8498		3,263.7376	3,263.7376	0.9226		3,286.8016

Unmitigated Construction Off-Site

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.3 Augur Bore 2 - 2020

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	0.9107	17.1910	18.8818	0.0345		0.7624	0.7624		0.7624	0.7624	0.0000	3,263.7376	3,263.7376	0.9226		3,286.8016
Total	0.9107	17.1910	18.8818	0.0345		0.7624	0.7624		0.7624	0.7624	0.0000	3,263.7376	3,263.7376	0.9226		3,286.8016

Mitigated Construction Off-Site

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.4 HDD - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.0410	70.0022	59.0619	0.1196		3.4639	3.4639		3.3337	3.3337		11,450.3425	11,450.3425	2.2195		11,505.8293
Total	7.0410	70.0022	59.0619	0.1196		3.4639	3.4639		3.3337	3.3337		11,450.3425	11,450.3425	2.2195		11,505.8293

Unmitigated Construction Off-Site

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.4 HDD - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6770	56.4549	73.9891	0.1196		3.2071	3.2071		3.2071	3.2071	0.0000	11,450.3425	11,450.3425	2.2195		11,505.8293
Total	2.6770	56.4549	73.9891	0.1196		3.2071	3.2071		3.2071	3.2071	0.0000	11,450.3425	11,450.3425	2.2195		11,505.8293

Mitigated Construction Off-Site

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.5 Worker Trips - 2020

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3466	5.4175	1.8031	0.0248	0.9366	0.0961	1.0327	0.2807	0.0919	0.3726		2,581.4682	2,581.4682	0.0258		2,582.1119
Worker	5.8378	4.2513	38.6670	0.1298	13.6808	0.0894	13.7702	3.6274	0.0824	3.7098		12,944.3854	12,944.3854	0.3654		12,953.5207
Total	6.1844	9.6688	40.4701	0.1546	14.6174	0.1855	14.8029	3.9080	0.1743	4.0824		15,525.8536	15,525.8536	0.3912		15,535.6326

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.5 Worker Trips - 2020

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3466	5.4175	1.8031	0.0248	0.9366	0.0961	1.0327	0.2807	0.0919	0.3726		2,581.4682	2,581.4682	0.0258		2,582.1119
Worker	5.8378	4.2513	38.6670	0.1298	13.6808	0.0894	13.7702	3.6274	0.0824	3.7098		12,944.3854	12,944.3854	0.3654		12,953.5207
Total	6.1844	9.6688	40.4701	0.1546	14.6174	0.1855	14.8029	3.9080	0.1743	4.0824		15,525.8536	15,525.8536	0.3912		15,535.6326

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.6 Hydrotect - 2020

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	3.6917	28.7787	25.7861	0.0454		1.5009	1.5009		1.4558	1.4558		4,217.1908	4,217.1908	0.7849		4,236.8135
Total	3.6917	28.7787	25.7861	0.0454		1.5009	1.5009		1.4558	1.4558		4,217.1908	4,217.1908	0.7849		4,236.8135

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0867	1.3544	0.4508	6.2000e-003	0.2342	0.0240	0.2582	0.0702	0.0230	0.0932		645.3671	645.3671	6.4400e-003		645.5280
Worker	0.0195	0.0142	0.1289	4.3000e-004	0.0456	3.0000e-004	0.0459	0.0121	2.7000e-004	0.0124		43.1480	43.1480	1.2200e-003		43.1784
Total	0.1061	1.3685	0.5797	6.6300e-003	0.2798	0.0243	0.3041	0.0823	0.0233	0.1055		688.5150	688.5150	7.6600e-003		688.7064

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.6 Hydrotect - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1815	22.8981	27.9699	0.0454		1.3133	1.3133		1.3133	1.3133	0.0000	4,217.1908	4,217.1908	0.7849		4,236.8135
Total	1.1815	22.8981	27.9699	0.0454		1.3133	1.3133		1.3133	1.3133	0.0000	4,217.1908	4,217.1908	0.7849		4,236.8135

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0867	1.3544	0.4508	6.2000e-003	0.2342	0.0240	0.2582	0.0702	0.0230	0.0932		645.3671	645.3671	6.4400e-003		645.5280
Worker	0.0195	0.0142	0.1289	4.3000e-004	0.0456	3.0000e-004	0.0459	0.0121	2.7000e-004	0.0124		43.1480	43.1480	1.2200e-003		43.1784
Total	0.1061	1.3685	0.5797	6.6300e-003	0.2798	0.0243	0.3041	0.0823	0.0233	0.1055		688.5150	688.5150	7.6600e-003		688.7064

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.7 Demobilize 2 - 2020

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1733	2.7087	0.9015	0.0124	0.4683	0.0481	0.5164	0.1403	0.0460	0.1863		1,290.7341	1,290.7341	0.0129		1,291.0559
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1733	2.7087	0.9015	0.0124	0.4683	0.0481	0.5164	0.1403	0.0460	0.1863		1,290.7341	1,290.7341	0.0129		1,291.0559

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.7 Demobilize 2 - 2020

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1733	2.7087	0.9015	0.0124	0.4683	0.0481	0.5164	0.1403	0.0460	0.1863		1,290.7341	1,290.7341	0.0129		1,291.0559
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1733	2.7087	0.9015	0.0124	0.4683	0.0481	0.5164	0.1403	0.0460	0.1863		1,290.7341	1,290.7341	0.0129		1,291.0559

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.8 Grind and Cap - 2020

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	3.2007	26.9128	27.8652	0.0419		1.7354	1.7354		1.6448	1.6448		4,025.2861	4,025.2861	0.8873		4,047.4694
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.2007	26.9128	27.8652	0.0419		1.7354	1.7354		1.6448	1.6448		4,025.2861	4,025.2861	0.8873		4,047.4694

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	0.1395	4.5893	1.1528	0.0141	6.0834	0.0170	6.1005	0.6661	0.0163	0.6824		1,544.8406	1,544.8406	0.1305		1,548.1034
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0389	0.0283	0.2578	8.7000e-004	0.0912	6.0000e-004	0.0918	0.0242	5.5000e-004	0.0247		86.2959	86.2959	2.4400e-003		86.3568
Total	0.1785	4.6176	1.4105	0.0150	6.1746	0.0176	6.1923	0.6902	0.0169	0.7071		1,631.1365	1,631.1365	0.1330		1,634.4602

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.8 Grind and Cap - 2020

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	0.9510	20.8350	29.3232	0.0419		1.3540	1.3540		1.3540	1.3540	0.0000	4,025.2861	4,025.2861	0.8873		4,047.4694
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9510	20.8350	29.3232	0.0419		1.3540	1.3540		1.3540	1.3540	0.0000	4,025.2861	4,025.2861	0.8873		4,047.4694

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	0.1395	4.5893	1.1528	0.0141	2.9236	0.0170	2.9406	0.3507	0.0163	0.3670		1,544.8406	1,544.8406	0.1305		1,548.1034
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0389	0.0283	0.2578	8.7000e-004	0.0912	6.0000e-004	0.0918	0.0242	5.5000e-004	0.0247		86.2959	86.2959	2.4400e-003		86.3568
Total	0.1785	4.6176	1.4105	0.0150	3.0148	0.0176	3.0324	0.3749	0.0169	0.3918		1,631.1365	1,631.1365	0.1330		1,634.4602

4.0 Operational Detail - Mobile

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

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

4.3 Trip Type Information

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	63	0.31	Diesel
Cranes	1	10.00	1	231	0.29	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	6	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	4	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	2	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	240	402	0.38	Diesel
Off-Highway Trucks	1	10.00	12	402	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Aerial Lifts	0.0495	0.8045	1.3678	2.1000e-003		0.0179	0.0179		0.0165	0.0165		203.2748	203.2748	0.0657		204.9184
Cranes	0.5668	6.7394	2.6442	7.2100e-003		0.2778	0.2778		0.2556	0.2556		698.4870	698.4870	0.2259		704.1347
Off-Highway Trucks	16.5777	158.0683	95.2525	0.3302		5.7590	5.7590		5.2983	5.2983		31,965.5498	31,965.5498	10.3383		32,224.0075
Tractors/Loaders/Backhoes	0.2619	2.6314	2.8496	3.8800e-003		0.1664	0.1664		0.1531	0.1531		375.9606	375.9606	0.1216		379.0005
Welders	0.4276	1.9642	2.2088	3.1900e-003		0.1086	0.1086		0.1086	0.1086		259.3472	259.3472	0.0383		260.3055
Total	17.8834	170.2079	104.3229	0.3466		6.3297	6.3297		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

SDG&E PSRP Natural Gas Transmission Project

San Diego County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Augur Bore 2	0.61	0.19	-0.45	0.00	0.15	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	0.67	0.19	-0.05	0.00	0.22	0.17	0.00	0.00	0.00	0.00	0.00	0.00
HDD	0.62	0.19	-0.25	0.00	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	0.66	0.20	-0.08	0.00	0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.57	0.09	-0.16	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	41	41	No Change	0.00
Bore/Drill Rigs	Diesel	Tier 3	9	9	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	0	No Change	0.00
Concrete/Industrial Saws	Diesel	Tier 3	8	8	No Change	0.00
Cranes	Diesel	Tier 3	12	12	No Change	0.00
Crawler Tractors	Diesel	Tier 3	3	3	No Change	0.00
Crushing/Proc. Equipment	Diesel	Tier 3	4	4	No Change	0.00

Concrete/Industrial Saws	1.73550E-001	1.36892E+000	1.52992E+000	2.60000E-003	8.22300E-002	8.22300E-002	0.00000E+000	2.23127E+002	2.23127E+002	1.41300E-002	0.00000E+000	2.23481E+002
Cranes	2.28170E-001	2.71329E+000	1.06456E+000	2.90000E-003	1.11860E-001	1.02910E-001	0.00000E+000	2.55110E+002	2.55110E+002	8.25100E-002	0.00000E+000	2.57173E+002
Crawler Tractors	1.44140E-001	1.85447E+000	6.22490E-001	1.95000E-003	6.98800E-002	6.42900E-002	0.00000E+000	1.71763E+002	1.71763E+002	5.55500E-002	0.00000E+000	1.73152E+002
Crushing/Proc. Equipment	1.09240E-001	7.50330E-001	8.59570E-001	1.39000E-003	4.75700E-002	4.75700E-002	0.00000E+000	1.19063E+002	1.19063E+002	8.80000E-003	0.00000E+000	1.19283E+002
Excavators	7.40890E-001	7.29641E+000	9.88267E+000	1.56200E-002	3.53430E-001	3.25160E-001	0.00000E+000	1.37210E+003	1.37210E+003	4.43770E-001	0.00000E+000	1.38320E+003
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	3.62640E-001	3.16118E+000	3.36741E+000	5.98000E-003	1.78330E-001	1.78330E-001	0.00000E+000	5.13632E+002	5.13632E+002	2.89200E-002	0.00000E+000	5.14355E+002
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Off-Highway Trucks	4.83320E-001	4.60848E+000	2.77709E+000	9.63000E-003	1.67900E-001	1.54470E-001	0.00000E+000	8.45456E+002	8.45456E+002	2.73440E-001	0.00000E+000	8.52292E+002
Other Construction Equipment	3.89000E-002	4.12580E-001	3.24610E-001	4.90000E-004	2.17700E-002	2.00300E-002	0.00000E+000	4.27790E+001	4.27790E+001	1.38400E-002	0.00000E+000	4.31249E+001
Other General Industrial Equipment	7.32500E-002	6.66970E-001	6.19330E-001	8.00000E-004	4.85900E-002	4.47100E-002	0.00000E+000	7.00307E+001	7.00307E+001	2.26500E-002	0.00000E+000	7.05970E+001
Other Material Handling Equipment	9.29700E-002	8.73000E-001	1.16973E+000	1.80000E-003	4.35500E-002	4.00700E-002	0.00000E+000	1.58031E+002	1.58031E+002	5.11100E-002	0.00000E+000	1.59309E+002
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	4.09700E-002	4.22920E-001	5.00540E-001	8.00000E-004	2.11500E-002	1.94600E-002	0.00000E+000	7.06872E+001	7.06872E+001	2.28600E-002	0.00000E+000	7.12588E+001
Pumps	1.07060E-001	8.92850E-001	9.51930E-001	1.66000E-003	5.24200E-002	5.24200E-002	0.00000E+000	1.42997E+002	1.42997E+002	8.56000E-003	0.00000E+000	1.43211E+002
Rollers	1.01160E-001	1.01143E+000	9.20180E-001	1.27000E-003	6.44800E-002	5.93200E-002	0.00000E+000	1.12016E+002	1.12016E+002	3.62300E-002	0.00000E+000	1.12922E+002
Rough Terrain Forklifts	4.90600E-002	6.35760E-001	8.44100E-001	1.27000E-003	2.65900E-002	2.44600E-002	0.00000E+000	1.11246E+002	1.11246E+002	3.59800E-002	0.00000E+000	1.12145E+002
Rubber Tired Dozers	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
Rubber Tired Loaders	9.31500E-002	1.09798E+000	4.07220E-001	1.56000E-003	3.64500E-002	3.35300E-002	0.00000E+000	1.36699E+002	1.36699E+002	4.42100E-002	0.00000E+000	1.37804E+002
Sweepers/Scrubbers	1.09340E-001	9.42540E-001	8.04890E-001	1.03000E-003	7.57200E-002	6.96600E-002	0.00000E+000	9.04476E+001	9.04476E+001	2.92500E-002	0.00000E+000	9.11789E+001
Tractors/Loaders/Backhoes	3.52120E-001	3.53822E+000	3.83160E+000	5.22000E-003	2.23740E-001	2.05840E-001	0.00000E+000	4.58597E+002	4.58597E+002	1.48320E-001	0.00000E+000	4.62305E+002
Welders	1.04135E+000	4.78332E+000	5.37901E+000	7.78000E-003	2.64510E-001	2.64510E-001	0.00000E+000	5.72967E+002	5.72967E+002	8.46900E-002	0.00000E+000	5.75084E+002

Paving Equipment	5.15255E-001	9.19796E-002	-2.23579E-001	0.00000E+000	1.23404E-001	4.72765E-002	0.00000E+000	1.27321E-006	1.27321E-006	0.00000E+000	0.00000E+000	1.26300E-006
Pumps	6.89146E-001	1.48804E-001	-7.80835E-002	0.00000E+000	-1.58337E-002	-1.58337E-002	0.00000E+000	1.18883E-006	1.18883E-006	0.00000E+000	0.00000E+000	1.18706E-006
Rollers	6.90886E-001	2.94089E-001	-4.77624E-002	0.00000E+000	2.24100E-001	1.56608E-001	0.00000E+000	1.16055E-006	1.16055E-006	0.00000E+000	0.00000E+000	1.23980E-006
Rough Terrain Forklifts	3.65879E-001	-1.17371E-001	-1.36441E-001	0.00000E+000	-8.72132E-001	-1.03516E+000	0.00000E+000	1.25847E-006	1.25847E-006	0.00000E+000	0.00000E+000	1.24838E-006
Rubber Tired Dozers	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
Rubber Tired Loaders	5.86581E-001	3.21864E-001	-1.04911E+000	0.00000E+000	2.25240E-001	1.57769E-001	0.00000E+000	1.17046E-006	1.17046E-006	0.00000E+000	0.00000E+000	1.16107E-006
Sweepers/Scrubbers	7.69252E-001	3.88684E-001	3.33213E-002	0.00000E+000	4.66719E-001	4.20327E-001	0.00000E+000	1.21617E-006	1.21617E-006	0.00000E+000	0.00000E+000	1.20642E-006
Tractors/Loaders/Balkhoes	6.37425E-001	1.76117E-001	-2.73593E-002	0.00000E+000	8.70206E-002	7.62728E-003	0.00000E+000	1.19931E-006	1.19931E-006	0.00000E+000	0.00000E+000	1.18969E-006
Welders	6.90498E-001	-7.57424E-002	1.52894E-001	0.00000E+000	-1.76439E-001	-1.76439E-001	0.00000E+000	1.18680E-006	1.18680E-006	0.00000E+000	0.00000E+000	1.18244E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	55.00	PM2.5 Reduction	55.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.50	Vehicle Speed (mph)	40.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Augur Bore 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Augur Bore 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 2	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Grind and Cap	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	Roads	0.44	0.05	0.22	0.03	0.51	0.45
HDD	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
HDD	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Hydrotest	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.03	0.00	0.01	0.00	0.55	0.55
Site Preparation	Roads	9.44	1.14	4.83	0.68	0.49	0.41
Worker Trips	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	Roads	1.18	0.32	1.18	0.32	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: Urban

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"	7.70		
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	15.00		
	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	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

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

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

Water Mitigation Measures

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

Solid Waste Mitigation

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