

## **REVISED AIR QUALITY AND GREENHOUSE GAS EMISSIONS**

Since filing the TL674A Reconfiguration & TL666D Removal Project (Proposed Project) Proponent's Environmental Assessment with the California Public Utilities Commission (CPUC) in June 2017, San Diego Gas & Electric Company (SDG&E) has discovered the need to replace an existing circuit breaker and associated hardware at Del Mar Substation to bring it up to current SDG&E design standards. In January 2019, SDG&E provided the CPUC with an initial assessment of the potential air quality and greenhouse gas (GHG) impacts associated with this replacement process. Since that time, SDG&E has discovered that the existing circuit breaker foundation is not adequate to support the replacement hardware. As a result, this foundation will need to be replaced.

The replacement process is anticipated to take up to eight weeks to complete. In order to evaluate the potential air quality impacts associated with this replacement, a separate California Emissions Estimator Model (CalEEMod) simulation was prepared. The resulting output from this simulation is included as Attachment A: CalEEMod Reports. Modified versions of Table 5.3-8 and Table 5.3-9 from the Draft Initial Study/Mitigated Negative Declaration (IS/MND) incorporating these results have been provided in Attachment B: Revised Air Quality and GHG Calculations. As shown, the revised emissions will be below all applicable thresholds and the impact analysis in the Draft IS/MND adequately addresses this additional work.

Because the new circuit breaker will contain approximately 33 pounds of sulfur hexafluoride, a revised version of Table 5.7-5 has been provided in Attachment B: Revised Air Quality and GHG Calculations incorporating the anticipated fugitive emissions associated with this new piece of equipment. As shown, the Proposed Project's emissions will continue to be below all applicable thresholds. While this change to the substation will increase the total operations and maintenance emissions, this change will be small and is consistent with the conclusions presented in the Draft IS/MND.



**ATTACHMENT A: CALEEMOD REPORTS**

SDG&E Del Mar Project - San Diego County, Annual

**SDG&E Del Mar 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	0.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - The phases are above grade and below grade construction.

Off-road Equipment - Construction equipment required for above grade

Off-road Equipment - Construction equipment for below grade.

Trips and VMT - On road trips for below grade and above grade

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	40.00
tblConstructionPhase	NumDays	0.00	44.00

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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	11/8/2019	12/26/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	2/15/2020
tblConstructionPhase	PhaseStartDate	11/9/2019	11/10/2019
tblConstructionPhase	PhaseStartDate	11/9/2019	12/27/2019
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	4.00	3.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00

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tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00

**2.0 Emissions Summary**

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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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	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
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
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Below Grade	Building Construction	11/10/2019	12/26/2019	6	40	
2	Above Grade	Building Construction	12/27/2019	2/15/2020	6	44	

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Above Grade	Cranes	1	3.00	231	0.29
Above Grade	Cranes	0	4.00	231	0.29
Above Grade	Forklifts	0	6.00	89	0.20
Above Grade	Concrete/Industrial Saws	0	8.00	81	0.73
Above Grade	Forklifts	0	6.00	89	0.20
Above Grade	Bore/Drill Rigs	0	6.00	221	0.50
Above Grade	Graders	0	8.00	187	0.41
Above Grade	Trenchers	0	6.00	78	0.50
Above Grade	Off-Highway Trucks	1	1.00	402	0.38
Below Grade	Cranes	0	4.00	231	0.29
Above Grade	Rubber Tired Dozers	0	1.00	247	0.40
Below Grade	Forklifts	1	6.00	89	0.20
Below Grade	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Above Grade	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Below Grade	Bore/Drill Rigs	1	6.00	221	0.50
Above Grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Below Grade	Trenchers	1	6.00	78	0.50
Below Grade	Off-Highway Trucks	1	1.00	402	0.38
Below Grade	Plate Compactors	2	4.00	8	0.43
Above Grade	Aerial Lifts	1	3.00	63	0.31

**Trips and VMT**

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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
Below Grade	8	0.00	0.00	2.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
Above Grade	3	4.00	0.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
Above Grade	3	0.00	0.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

3.2 Below Grade - 2019

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	0.0227	0.2287	0.1718	3.5000e-004		0.0132	0.0132		0.0122	0.0122	0.0000	31.1815	31.1815	9.7300e-003	0.0000	31.4248
<b>Total</b>	<b>0.0227</b>	<b>0.2287</b>	<b>0.1718</b>	<b>3.5000e-004</b>		<b>0.0132</b>	<b>0.0132</b>		<b>0.0122</b>	<b>0.0122</b>	<b>0.0000</b>	<b>31.1815</b>	<b>31.1815</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>31.4248</b>

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**3.2 Below Grade - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.1000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1120	0.1120	1.0000e-005	0.0000	0.1123
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1120</b>	<b>0.1120</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1123</b>

**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	0.0227	0.2287	0.1718	3.5000e-004		0.0132	0.0132		0.0122	0.0122	0.0000	31.1814	31.1814	9.7300e-003	0.0000	31.4247
<b>Total</b>	<b>0.0227</b>	<b>0.2287</b>	<b>0.1718</b>	<b>3.5000e-004</b>		<b>0.0132</b>	<b>0.0132</b>		<b>0.0122</b>	<b>0.0122</b>	<b>0.0000</b>	<b>31.1814</b>	<b>31.1814</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>31.4247</b>

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**3.2 Below Grade - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.1000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1120	0.1120	1.0000e-005	0.0000	0.1123
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1120</b>	<b>0.1120</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1123</b>

**3.3 Above Grade - 2019**

**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	5.9000e-004	6.8100e-003	3.5400e-003	1.0000e-005		2.7000e-004	2.7000e-004		2.5000e-004	2.5000e-004	0.0000	0.7983	0.7983	2.5000e-004	0.0000	0.8047
<b>Total</b>	<b>5.9000e-004</b>	<b>6.8100e-003</b>	<b>3.5400e-003</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.7983</b>	<b>0.7983</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.8047</b>

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**3.3 Above Grade - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	8.0000e-005	7.4000e-004	0.0000	4.4000e-004	0.0000	4.4000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2172	0.2172	1.0000e-005	0.0000	0.2174
<b>Total</b>	<b>9.0000e-005</b>	<b>8.0000e-005</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.2172</b>	<b>0.2172</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2174</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9000e-004	6.8100e-003	3.5400e-003	1.0000e-005		2.7000e-004	2.7000e-004		2.5000e-004	2.5000e-004	0.0000	0.7983	0.7983	2.5000e-004	0.0000	0.8047
<b>Total</b>	<b>5.9000e-004</b>	<b>6.8100e-003</b>	<b>3.5400e-003</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.7983</b>	<b>0.7983</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.8047</b>

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**3.3 Above Grade - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	8.0000e-005	7.4000e-004	0.0000	4.4000e-004	0.0000	4.4000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2172	0.2172	1.0000e-005	0.0000	0.2174
<b>Total</b>	<b>9.0000e-005</b>	<b>8.0000e-005</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.2172</b>	<b>0.2172</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2174</b>

**3.3 Above Grade - 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	5.3600e-003	0.0611	0.0336	9.0000e-005		2.3500e-003	2.3500e-003		2.1600e-003	2.1600e-003	0.0000	7.8083	7.8083	2.5300e-003	0.0000	7.8714
<b>Total</b>	<b>5.3600e-003</b>	<b>0.0611</b>	<b>0.0336</b>	<b>9.0000e-005</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>7.8083</b>	<b>7.8083</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>7.8714</b>



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**3.3 Above Grade - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	7.3000e-004	6.8200e-003	2.0000e-005	4.4300e-003	2.0000e-005	4.4500e-003	1.1400e-003	1.0000e-005	1.1500e-003	0.0000	2.1033	2.1033	6.0000e-005	0.0000	2.1048
<b>Total</b>	<b>8.8000e-004</b>	<b>7.3000e-004</b>	<b>6.8200e-003</b>	<b>2.0000e-005</b>	<b>4.4300e-003</b>	<b>2.0000e-005</b>	<b>4.4500e-003</b>	<b>1.1400e-003</b>	<b>1.0000e-005</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>2.1033</b>	<b>2.1033</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1048</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3600e-003	0.0611	0.0336	9.0000e-005		2.3500e-003	2.3500e-003		2.1600e-003	2.1600e-003	0.0000	7.8082	7.8082	2.5300e-003	0.0000	7.8714
<b>Total</b>	<b>5.3600e-003</b>	<b>0.0611</b>	<b>0.0336</b>	<b>9.0000e-005</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>7.8082</b>	<b>7.8082</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>7.8714</b>

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**3.3 Above Grade - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	7.3000e-004	6.8200e-003	2.0000e-005	4.4300e-003	2.0000e-005	4.4500e-003	1.1400e-003	1.0000e-005	1.1500e-003	0.0000	2.1033	2.1033	6.0000e-005	0.0000	2.1048
<b>Total</b>	<b>8.8000e-004</b>	<b>7.3000e-004</b>	<b>6.8200e-003</b>	<b>2.0000e-005</b>	<b>4.4300e-003</b>	<b>2.0000e-005</b>	<b>4.4500e-003</b>	<b>1.1400e-003</b>	<b>1.0000e-005</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>2.1033</b>	<b>2.1033</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1048</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive 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	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail





## SDG&amp;E Del Mar Project - San Diego County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**



SDG&E Del Mar Project - San Diego County, Annual

**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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



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	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

SDG&E Del Mar 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**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

SDG&E Del Mar Project - San Diego County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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SDG&E Del Mar Project - San Diego County, Annual

**10.0 Stationary Equipment**

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**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**

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SDG&E Del Mar Project - San Diego County, Summer

**SDG&E Del Mar 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	0.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - The phases are above grade and below grade construction.

Off-road Equipment - Construction equipment required for above grade

Off-road Equipment - Construction equipment for below grade.

Trips and VMT - On road trips for below grade and above grade

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	40.00
tblConstructionPhase	NumDays	0.00	44.00

SDG&E Del Mar Project - San Diego County, Summer

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	11/8/2019	12/26/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	2/15/2020
tblConstructionPhase	PhaseStartDate	11/9/2019	11/10/2019
tblConstructionPhase	PhaseStartDate	11/9/2019	12/27/2019
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	4.00	3.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00

## SDG&amp;E Del Mar Project - San Diego County, Summer

tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00

## 2.0 Emissions Summary

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SDG&E Del Mar 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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		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
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Operational**

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

SDG&E Del Mar 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Below Grade	Building Construction	11/10/2019	12/26/2019	6	40	
2	Above Grade	Building Construction	12/27/2019	2/15/2020	6	44	

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

## SDG&amp;E Del Mar Project - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Above Grade	Cranes	1	3.00	231	0.29
Above Grade	Cranes	0	4.00	231	0.29
Above Grade	Forklifts	0	6.00	89	0.20
Above Grade	Concrete/Industrial Saws	0	8.00	81	0.73
Above Grade	Forklifts	0	6.00	89	0.20
Above Grade	Bore/Drill Rigs	0	6.00	221	0.50
Above Grade	Graders	0	8.00	187	0.41
Above Grade	Trenchers	0	6.00	78	0.50
Above Grade	Off-Highway Trucks	1	1.00	402	0.38
Below Grade	Cranes	0	4.00	231	0.29
Above Grade	Rubber Tired Dozers	0	1.00	247	0.40
Below Grade	Forklifts	1	6.00	89	0.20
Below Grade	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Above Grade	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Below Grade	Bore/Drill Rigs	1	6.00	221	0.50
Above Grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Below Grade	Trenchers	1	6.00	78	0.50
Below Grade	Off-Highway Trucks	1	1.00	402	0.38
Below Grade	Plate Compactors	2	4.00	8	0.43
Above Grade	Aerial Lifts	1	3.00	63	0.31

**Trips and VMT**

SDG&E Del Mar Project - San Diego County, Summer

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
Below Grade	8	0.00	0.00	2.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
Above Grade	3	4.00	0.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
Above Grade	3	0.00	0.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Below Grade - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1333	11.4341	8.5893	0.0175		0.6601	0.6601		0.6081	0.6081		1,718.5841	1,718.5841	0.5364		1,731.9944
<b>Total</b>	<b>1.1333</b>	<b>11.4341</b>	<b>8.5893</b>	<b>0.0175</b>		<b>0.6601</b>	<b>0.6601</b>		<b>0.6081</b>	<b>0.6081</b>		<b>1,718.5841</b>	<b>1,718.5841</b>	<b>0.5364</b>		<b>1,731.9944</b>

SDG&E Del Mar Project - San Diego County, Summer

**3.2 Below Grade - 2019**

**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	6.0000e-004	0.0200	4.5300e-003	6.0000e-005	1.3100e-003	8.0000e-005	1.3900e-003	3.6000e-004	8.0000e-005	4.4000e-004		6.2047	6.2047	5.2000e-004		6.2178
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
<b>Total</b>	<b>6.0000e-004</b>	<b>0.0200</b>	<b>4.5300e-003</b>	<b>6.0000e-005</b>	<b>1.3100e-003</b>	<b>8.0000e-005</b>	<b>1.3900e-003</b>	<b>3.6000e-004</b>	<b>8.0000e-005</b>	<b>4.4000e-004</b>		<b>6.2047</b>	<b>6.2047</b>	<b>5.2000e-004</b>		<b>6.2178</b>

**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	1.1333	11.4341	8.5893	0.0175		0.6601	0.6601		0.6081	0.6081	0.0000	1,718.5841	1,718.5841	0.5364		1,731.9944
<b>Total</b>	<b>1.1333</b>	<b>11.4341</b>	<b>8.5893</b>	<b>0.0175</b>		<b>0.6601</b>	<b>0.6601</b>		<b>0.6081</b>	<b>0.6081</b>	<b>0.0000</b>	<b>1,718.5841</b>	<b>1,718.5841</b>	<b>0.5364</b>		<b>1,731.9944</b>

SDG&E Del Mar Project - San Diego County, Summer

**3.2 Below Grade - 2019**

**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	6.0000e-004	0.0200	4.5300e-003	6.0000e-005	1.3100e-003	8.0000e-005	1.3900e-003	3.6000e-004	8.0000e-005	4.4000e-004		6.2047	6.2047	5.2000e-004		6.2178
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
<b>Total</b>	<b>6.0000e-004</b>	<b>0.0200</b>	<b>4.5300e-003</b>	<b>6.0000e-005</b>	<b>1.3100e-003</b>	<b>8.0000e-005</b>	<b>1.3900e-003</b>	<b>3.6000e-004</b>	<b>8.0000e-005</b>	<b>4.4000e-004</b>		<b>6.2047</b>	<b>6.2047</b>	<b>5.2000e-004</b>		<b>6.2178</b>

**3.3 Above Grade - 2019**

**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	0.2930	3.4066	1.7693	4.4400e-003		0.1344	0.1344		0.1237	0.1237		440.0080	440.0080	0.1392		443.4884
<b>Total</b>	<b>0.2930</b>	<b>3.4066</b>	<b>1.7693</b>	<b>4.4400e-003</b>		<b>0.1344</b>	<b>0.1344</b>		<b>0.1237</b>	<b>0.1237</b>		<b>440.0080</b>	<b>440.0080</b>	<b>0.1392</b>		<b>443.4884</b>

SDG&E Del Mar Project - San Diego County, Summer

**3.3 Above Grade - 2019**

**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	0.0451	0.0368	0.4070	1.2700e-003	0.2274	8.0000e-004	0.2282	0.0582	7.4000e-004	0.0589		126.3491	126.3491	3.8200e-003		126.4445
<b>Total</b>	<b>0.0451</b>	<b>0.0368</b>	<b>0.4070</b>	<b>1.2700e-003</b>	<b>0.2274</b>	<b>8.0000e-004</b>	<b>0.2282</b>	<b>0.0582</b>	<b>7.4000e-004</b>	<b>0.0589</b>		<b>126.3491</b>	<b>126.3491</b>	<b>3.8200e-003</b>		<b>126.4445</b>

**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	0.2930	3.4066	1.7693	4.4400e-003		0.1344	0.1344		0.1237	0.1237	0.0000	440.0080	440.0080	0.1392		443.4884
<b>Total</b>	<b>0.2930</b>	<b>3.4066</b>	<b>1.7693</b>	<b>4.4400e-003</b>		<b>0.1344</b>	<b>0.1344</b>		<b>0.1237</b>	<b>0.1237</b>	<b>0.0000</b>	<b>440.0080</b>	<b>440.0080</b>	<b>0.1392</b>		<b>443.4884</b>

SDG&E Del Mar Project - San Diego County, Summer

**3.3 Above Grade - 2019**

**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	0.0451	0.0368	0.4070	1.2700e-003	0.2274	8.0000e-004	0.2282	0.0582	7.4000e-004	0.0589		126.3491	126.3491	3.8200e-003		126.4445
<b>Total</b>	<b>0.0451</b>	<b>0.0368</b>	<b>0.4070</b>	<b>1.2700e-003</b>	<b>0.2274</b>	<b>8.0000e-004</b>	<b>0.2282</b>	<b>0.0582</b>	<b>7.4000e-004</b>	<b>0.0589</b>		<b>126.3491</b>	<b>126.3491</b>	<b>3.8200e-003</b>		<b>126.4445</b>

**3.3 Above Grade - 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	0.2678	3.0535	1.6799	4.4400e-003		0.1175	0.1175		0.1081	0.1081		430.3563	430.3563	0.1392		433.8360
<b>Total</b>	<b>0.2678</b>	<b>3.0535</b>	<b>1.6799</b>	<b>4.4400e-003</b>		<b>0.1175</b>	<b>0.1175</b>		<b>0.1081</b>	<b>0.1081</b>		<b>430.3563</b>	<b>430.3563</b>	<b>0.1392</b>		<b>433.8360</b>



SDG&E Del Mar Project - San Diego County, Summer

**3.3 Above Grade - 2020**

**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	0.0423	0.0333	0.3734	1.2300e-003	0.2274	7.9000e-004	0.2282	0.0582	7.2000e-004	0.0589		122.3552	122.3552	3.4600e-003		122.4417
<b>Total</b>	<b>0.0423</b>	<b>0.0333</b>	<b>0.3734</b>	<b>1.2300e-003</b>	<b>0.2274</b>	<b>7.9000e-004</b>	<b>0.2282</b>	<b>0.0582</b>	<b>7.2000e-004</b>	<b>0.0589</b>		<b>122.3552</b>	<b>122.3552</b>	<b>3.4600e-003</b>		<b>122.4417</b>

**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	0.2678	3.0535	1.6799	4.4400e-003		0.1175	0.1175		0.1081	0.1081	0.0000	430.3563	430.3563	0.1392		433.8360
<b>Total</b>	<b>0.2678</b>	<b>3.0535</b>	<b>1.6799</b>	<b>4.4400e-003</b>		<b>0.1175</b>	<b>0.1175</b>		<b>0.1081</b>	<b>0.1081</b>	<b>0.0000</b>	<b>430.3563</b>	<b>430.3563</b>	<b>0.1392</b>		<b>433.8360</b>

SDG&E Del Mar Project - San Diego County, Summer

**3.3 Above Grade - 2020**

**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	0.0423	0.0333	0.3734	1.2300e-003	0.2274	7.9000e-004	0.2282	0.0582	7.2000e-004	0.0589		122.3552	122.3552	3.4600e-003		122.4417
<b>Total</b>	<b>0.0423</b>	<b>0.0333</b>	<b>0.3734</b>	<b>1.2300e-003</b>	<b>0.2274</b>	<b>7.9000e-004</b>	<b>0.2282</b>	<b>0.0582</b>	<b>7.2000e-004</b>	<b>0.0589</b>		<b>122.3552</b>	<b>122.3552</b>	<b>3.4600e-003</b>		<b>122.4417</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

SDG&E Del Mar 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	0.0000	0.0000	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	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

SDG&E Del Mar Project - San Diego County, Summer

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

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

SDG&E Del Mar Project - San Diego County, Summer

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

SDG&E Del Mar Project - San Diego County, Summer

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

SDG&E Del Mar Project - San Diego County, Summer

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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**

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SDG&E Del Mar Project - San Diego County, Winter

**SDG&E Del Mar 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	0.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - The phases are above grade and below grade construction.

Off-road Equipment - Construction equipment required for above grade

Off-road Equipment - Construction equipment for below grade.

Trips and VMT - On road trips for below grade and above grade

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	40.00
tblConstructionPhase	NumDays	0.00	44.00



SDG&E Del Mar Project - San Diego County, Winter

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	11/8/2019	12/26/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	2/15/2020
tblConstructionPhase	PhaseStartDate	11/9/2019	11/10/2019
tblConstructionPhase	PhaseStartDate	11/9/2019	12/27/2019
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	4.00	3.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00

## SDG&amp;E Del Mar Project - San Diego County, Winter

tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripLength	10.80	40.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00

## 2.0 Emissions Summary

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SDG&E Del Mar 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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		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
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Operational**

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Below Grade	Building Construction	11/10/2019	12/26/2019	6	40	
2	Above Grade	Building Construction	12/27/2019	2/15/2020	6	44	

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

## SDG&amp;E Del Mar Project - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Above Grade	Cranes	1	3.00	231	0.29
Above Grade	Cranes	0	4.00	231	0.29
Above Grade	Forklifts	0	6.00	89	0.20
Above Grade	Concrete/Industrial Saws	0	8.00	81	0.73
Above Grade	Forklifts	0	6.00	89	0.20
Above Grade	Bore/Drill Rigs	0	6.00	221	0.50
Above Grade	Graders	0	8.00	187	0.41
Above Grade	Trenchers	0	6.00	78	0.50
Above Grade	Off-Highway Trucks	1	1.00	402	0.38
Below Grade	Cranes	0	4.00	231	0.29
Above Grade	Rubber Tired Dozers	0	1.00	247	0.40
Below Grade	Forklifts	1	6.00	89	0.20
Below Grade	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Above Grade	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Below Grade	Bore/Drill Rigs	1	6.00	221	0.50
Above Grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Below Grade	Trenchers	1	6.00	78	0.50
Below Grade	Off-Highway Trucks	1	1.00	402	0.38
Below Grade	Plate Compactors	2	4.00	8	0.43
Above Grade	Aerial Lifts	1	3.00	63	0.31

**Trips and VMT**

SDG&E Del Mar Project - San Diego County, Winter

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
Below Grade	8	0.00	0.00	2.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
Above Grade	3	4.00	0.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
Above Grade	3	0.00	0.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Below Grade - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1333	11.4341	8.5893	0.0175		0.6601	0.6601		0.6081	0.6081		1,718.5841	1,718.5841	0.5364		1,731.9944
<b>Total</b>	<b>1.1333</b>	<b>11.4341</b>	<b>8.5893</b>	<b>0.0175</b>		<b>0.6601</b>	<b>0.6601</b>		<b>0.6081</b>	<b>0.6081</b>		<b>1,718.5841</b>	<b>1,718.5841</b>	<b>0.5364</b>		<b>1,731.9944</b>

SDG&E Del Mar Project - San Diego County, Winter

**3.2 Below Grade - 2019**

**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	6.1000e-004	0.0204	4.7500e-003	6.0000e-005	1.3100e-003	8.0000e-005	1.3900e-003	3.6000e-004	8.0000e-005	4.4000e-004		6.1319	6.1319	5.3000e-004		6.1453
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
<b>Total</b>	<b>6.1000e-004</b>	<b>0.0204</b>	<b>4.7500e-003</b>	<b>6.0000e-005</b>	<b>1.3100e-003</b>	<b>8.0000e-005</b>	<b>1.3900e-003</b>	<b>3.6000e-004</b>	<b>8.0000e-005</b>	<b>4.4000e-004</b>		<b>6.1319</b>	<b>6.1319</b>	<b>5.3000e-004</b>		<b>6.1453</b>

**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	1.1333	11.4341	8.5893	0.0175		0.6601	0.6601		0.6081	0.6081	0.0000	1,718.5841	1,718.5841	0.5364		1,731.9944
<b>Total</b>	<b>1.1333</b>	<b>11.4341</b>	<b>8.5893</b>	<b>0.0175</b>		<b>0.6601</b>	<b>0.6601</b>		<b>0.6081</b>	<b>0.6081</b>	<b>0.0000</b>	<b>1,718.5841</b>	<b>1,718.5841</b>	<b>0.5364</b>		<b>1,731.9944</b>



SDG&E Del Mar Project - San Diego County, Winter

**3.2 Below Grade - 2019**

**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	6.1000e-004	0.0204	4.7500e-003	6.0000e-005	1.3100e-003	8.0000e-005	1.3900e-003	3.6000e-004	8.0000e-005	4.4000e-004		6.1319	6.1319	5.3000e-004		6.1453
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
<b>Total</b>	<b>6.1000e-004</b>	<b>0.0204</b>	<b>4.7500e-003</b>	<b>6.0000e-005</b>	<b>1.3100e-003</b>	<b>8.0000e-005</b>	<b>1.3900e-003</b>	<b>3.6000e-004</b>	<b>8.0000e-005</b>	<b>4.4000e-004</b>		<b>6.1319</b>	<b>6.1319</b>	<b>5.3000e-004</b>		<b>6.1453</b>

**3.3 Above Grade - 2019**

**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	0.2930	3.4066	1.7693	4.4400e-003		0.1344	0.1344		0.1237	0.1237		440.0080	440.0080	0.1392		443.4884
<b>Total</b>	<b>0.2930</b>	<b>3.4066</b>	<b>1.7693</b>	<b>4.4400e-003</b>		<b>0.1344</b>	<b>0.1344</b>		<b>0.1237</b>	<b>0.1237</b>		<b>440.0080</b>	<b>440.0080</b>	<b>0.1392</b>		<b>443.4884</b>

SDG&E Del Mar Project - San Diego County, Winter

**3.3 Above Grade - 2019**

**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	0.0538	0.0413	0.3674	1.1900e-003	0.2274	8.0000e-004	0.2282	0.0582	7.4000e-004	0.0589		118.5078	118.5078	3.5500e-003		118.5964
<b>Total</b>	<b>0.0538</b>	<b>0.0413</b>	<b>0.3674</b>	<b>1.1900e-003</b>	<b>0.2274</b>	<b>8.0000e-004</b>	<b>0.2282</b>	<b>0.0582</b>	<b>7.4000e-004</b>	<b>0.0589</b>		<b>118.5078</b>	<b>118.5078</b>	<b>3.5500e-003</b>		<b>118.5964</b>

**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	0.2930	3.4066	1.7693	4.4400e-003		0.1344	0.1344		0.1237	0.1237	0.0000	440.0080	440.0080	0.1392		443.4884
<b>Total</b>	<b>0.2930</b>	<b>3.4066</b>	<b>1.7693</b>	<b>4.4400e-003</b>		<b>0.1344</b>	<b>0.1344</b>		<b>0.1237</b>	<b>0.1237</b>	<b>0.0000</b>	<b>440.0080</b>	<b>440.0080</b>	<b>0.1392</b>		<b>443.4884</b>

SDG&E Del Mar Project - San Diego County, Winter

**3.3 Above Grade - 2019**

**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	0.0538	0.0413	0.3674	1.1900e-003	0.2274	8.0000e-004	0.2282	0.0582	7.4000e-004	0.0589		118.5078	118.5078	3.5500e-003		118.5964
<b>Total</b>	<b>0.0538</b>	<b>0.0413</b>	<b>0.3674</b>	<b>1.1900e-003</b>	<b>0.2274</b>	<b>8.0000e-004</b>	<b>0.2282</b>	<b>0.0582</b>	<b>7.4000e-004</b>	<b>0.0589</b>		<b>118.5078</b>	<b>118.5078</b>	<b>3.5500e-003</b>		<b>118.5964</b>

**3.3 Above Grade - 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	0.2678	3.0535	1.6799	4.4400e-003		0.1175	0.1175		0.1081	0.1081		430.3563	430.3563	0.1392		433.8360
<b>Total</b>	<b>0.2678</b>	<b>3.0535</b>	<b>1.6799</b>	<b>4.4400e-003</b>		<b>0.1175</b>	<b>0.1175</b>		<b>0.1081</b>	<b>0.1081</b>		<b>430.3563</b>	<b>430.3563</b>	<b>0.1392</b>		<b>433.8360</b>

SDG&E Del Mar Project - San Diego County, Winter

**3.3 Above Grade - 2020**

**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	0.0505	0.0373	0.3364	1.1500e-003	0.2274	7.9000e-004	0.2282	0.0582	7.2000e-004	0.0589		114.7598	114.7598	3.2100e-003		114.8400
<b>Total</b>	<b>0.0505</b>	<b>0.0373</b>	<b>0.3364</b>	<b>1.1500e-003</b>	<b>0.2274</b>	<b>7.9000e-004</b>	<b>0.2282</b>	<b>0.0582</b>	<b>7.2000e-004</b>	<b>0.0589</b>		<b>114.7598</b>	<b>114.7598</b>	<b>3.2100e-003</b>		<b>114.8400</b>

**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	0.2678	3.0535	1.6799	4.4400e-003		0.1175	0.1175		0.1081	0.1081	0.0000	430.3563	430.3563	0.1392		433.8360
<b>Total</b>	<b>0.2678</b>	<b>3.0535</b>	<b>1.6799</b>	<b>4.4400e-003</b>		<b>0.1175</b>	<b>0.1175</b>		<b>0.1081</b>	<b>0.1081</b>	<b>0.0000</b>	<b>430.3563</b>	<b>430.3563</b>	<b>0.1392</b>		<b>433.8360</b>

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**3.3 Above Grade - 2020**

**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	0.0505	0.0373	0.3364	1.1500e-003	0.2274	7.9000e-004	0.2282	0.0582	7.2000e-004	0.0589		114.7598	114.7598	3.2100e-003		114.8400
<b>Total</b>	<b>0.0505</b>	<b>0.0373</b>	<b>0.3364</b>	<b>1.1500e-003</b>	<b>0.2274</b>	<b>7.9000e-004</b>	<b>0.2282</b>	<b>0.0582</b>	<b>7.2000e-004</b>	<b>0.0589</b>		<b>114.7598</b>	<b>114.7598</b>	<b>3.2100e-003</b>		<b>114.8400</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

SDG&E Del Mar 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	0.0000	0.0000	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	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

SDG&E Del Mar Project - San Diego County, Winter

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

**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	
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	

SDG&E Del Mar Project - San Diego County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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



SDG&E Del Mar Project - San Diego County, Winter

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

SDG&E Del Mar Project - San Diego County, Winter

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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**

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**SDG&E Del Mar Project**  
**San Diego County, Mitigation Report**

### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO	CH4	N2O	CO2e
Percent Reduction												
Above Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Below Grade	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
Bore/Drill Rigs	Diesel	No Change	0	1	No Change	0.00
Off-Highway Trucks	Diesel	No Change	0	2	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	0	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	0	No Change	0.00
Trenchers	Diesel	No Change	0	1	No Change	0.00
Aerial Lifts	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	0	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	2	No Change	0.00
Plate Compactors	Diesel	No Change	0	2	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Aerial Lifts	3.30000E-004	5.34000E-003	9.03000E-003	1.00000E-005	1.20000E-004	1.10000E-004	0.00000E+000	1.21955E+000	1.21955E+000	3.90000E-004	0.00000E+000	1.22939E+000
Bore/Drill Rigs	4.19000E-003	5.53800E-002	3.10000E-002	1.40000E-004	1.57000E-003	1.44000E-003	0.00000E+000	1.26179E+001	1.26179E+001	3.99000E-003	0.00000E+000	1.27178E+001
Concrete/Industrial Saws	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
Cranes	3.78000E-003	4.49400E-002	1.75900E-002	5.00000E-005	1.86000E-003	1.71000E-003	0.00000E+000	4.19059E+000	4.19059E+000	1.35000E-003	0.00000E+000	4.22440E+000
Forklifts	2.40000E-003	2.14200E-002	1.79100E-002	2.00000E-005	1.66000E-003	1.53000E-003	0.00000E+000	2.05913E+000	2.05913E+000	6.50000E-004	0.00000E+000	2.07542E+000
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	3.61000E-003	3.55800E-002	2.05200E-002	7.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	6.16234E+000	6.16234E+000	1.97000E-003	0.00000E+000	6.21159E+000
Plate Compactors	8.00000E-004	5.03000E-003	4.21000E-003	1.00000E-005	2.00000E-004	2.00000E-004	0.00000E+000	6.25580E-001	6.25580E-001	6.00000E-005	0.00000E+000	6.27210E-001
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
Tractors/Loaders/Backhoes	6.98000E-003	7.01200E-002	6.90800E-002	9.00000E-005	4.68000E-003	4.31000E-003	0.00000E+000	8.36992E+000	8.36992E+000	2.65000E-003	0.00000E+000	8.43612E+000
Trenchers	6.51000E-003	5.87600E-002	3.95900E-002	5.00000E-005	4.44000E-003	4.09000E-003	0.00000E+000	4.54300E+000	4.54300E+000	1.44000E-003	0.00000E+000	4.57894E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Aerial Lifts	3.30000E-004	5.34000E-003	9.03000E-003	1.00000E-005	1.20000E-004	1.10000E-004	0.00000E+000	1.21955E+000	1.21955E+000	3.90000E-004	0.00000E+000	1.22939E+000
Bore/Drill Rigs	4.19000E-003	5.53800E-002	3.10000E-002	1.40000E-004	1.57000E-003	1.44000E-003	0.00000E+000	1.26179E+001	1.26179E+001	3.99000E-003	0.00000E+000	1.27177E+001
Concrete/Industrial Saws	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
Cranes	3.78000E-003	4.49400E-002	1.75800E-002	5.00000E-005	1.86000E-003	1.71000E-003	0.00000E+000	4.19058E+000	4.19058E+000	1.35000E-003	0.00000E+000	4.22440E+000
Forklifts	2.40000E-003	2.14200E-002	1.79100E-002	2.00000E-005	1.66000E-003	1.53000E-003	0.00000E+000	2.05913E+000	2.05913E+000	6.50000E-004	0.00000E+000	2.07542E+000
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	3.61000E-003	3.55800E-002	2.05200E-002	7.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	6.16233E+000	6.16233E+000	1.97000E-003	0.00000E+000	6.21158E+000
Plate Compactors	8.00000E-004	5.03000E-003	4.21000E-003	1.00000E-005	2.00000E-004	2.00000E-004	0.00000E+000	6.25580E-001	6.25580E-001	6.00000E-005	0.00000E+000	6.27210E-001
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
Tractors/Loaders/Backhoes	6.98000E-003	7.01200E-002	6.90800E-002	9.00000E-005	4.68000E-003	4.31000E-003	0.00000E+000	8.36991E+000	8.36991E+000	2.65000E-003	0.00000E+000	8.43611E+000
Trenchers	6.51000E-003	5.87600E-002	3.95900E-002	5.00000E-005	4.44000E-003	4.09000E-003	0.00000E+000	4.54300E+000	4.54300E+000	1.44000E-003	0.00000E+000	4.57893E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Aerial Lifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	7.92522E-007	7.92522E-007	0.00000E+000	0.00000E+000	1.57261E-006
Concrete/Industrial Saws	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
Cranes	0.00000E+000	0.00000E+000	5.68505E-004	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.38630E-006	2.38630E-006	0.00000E+000	0.00000E+000	0.00000E+000
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
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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.62276E-006	1.62276E-006	0.00000E+000	0.00000E+000	1.60989E-006
Plate Compactors	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 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
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19475E-006	1.19475E-006	0.00000E+000	0.00000E+000	1.18538E-006
Trenchers	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	2.18391E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

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

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Above Grade	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Above Grade	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Below Grade	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Below Grade	Roads	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Percent Reduction Summary

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

### Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
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No	Land Use	Increase Density	0.00		
No	Land Use	Increase Diversity	0.00	0.15	
No	Land Use	Improve Walkability Design	0.00		
No	Land Use	Improve Destination Accessibility	0.00		
No	Land Use	Increase Transit Accessibility	0.25		
No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			



No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	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
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

**ATTACHMENT B: REVISED AIR QUALITY AND GHG CALCULATIONS**

## ATTACHMENT B: REVISED AIR QUALITY AND GHG CALCULATIONS

**Revised Table 5.3-8 Peak Daily Uncontrolled Construction Emissions**

Year	Emissions (pounds per day)					
	PM <sub>2.5</sub>	PM <sub>10</sub>	NO <sub>x</sub>	SO <sub>x</sub>	CO	VOCs
Construction Equipment and Vehicles	12.39	58.20	137.44	0.30	116.56	13.67
Helicopter Use	1.89	1.89	67.80	31.38	31.92	25.81
Substation Modifications	0.61	0.66	11.45	0.02	8.59	1.13
<b>Total</b>	14.89	60.75	216.69	31.70	157.07	40.61
Threshold	55	100	250	250	550	75
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Notes: PM<sub>2.5</sub> = particulate matter less than 2.5 microns, PM<sub>10</sub> = particulate matter less than 10 microns, NO<sub>x</sub> = nitrogen oxides, SO<sub>x</sub> = sulfur oxides, CO = carbon monoxide, VOC = volatile organic compounds

**Revised Table 5.3-9 Peak Daily Controlled Construction Emissions**

Year	Emissions (pounds per day)					
	PM <sub>2.5</sub>	PM <sub>10</sub>	NO <sub>x</sub>	SO <sub>x</sub>	CO	VOCs
Construction Equipment and Vehicles	9.20	26.23	137.44	0.30	116.56	13.67
Helicopter Use	1.89	1.89	67.80	31.38	31.92	25.81
Substation Modifications	0.61	0.66	11.45	0.02	8.59	1.13
<b>Total</b>	11.70	28.78	216.69	31.70	157.07	40.61
Threshold	55	100	250	250	550	75
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Notes: PM<sub>2.5</sub> = particulate matter less than 2.5 microns, PM<sub>10</sub> = particulate matter less than 10 microns, NO<sub>x</sub> = nitrogen oxides, SO<sub>x</sub> = sulfur oxides, CO = carbon monoxide, VOC = volatile organic compounds

**Revised Table 5.7-5 Greenhouse Gas Construction Emissions**

Category	GHG Emissions (MT)		
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
Total Construction Emissions	899.66	0.16	0.00
Helicopter Use	73.50	0.00	0.00
Substation Modifications	23.31	0.01	0.00
<b>Total Construction Emissions</b>	<b>996.47</b>	<b>0.17</b>	<b>0.00</b>
Global Warming Potential	1	21	310
CO <sub>2e</sub>	996.47	3.57	0.00
<b>Total CO<sub>2e</sub></b>	<b>1,000.04</b>		
Amortized Construction Emissions (Amortized over 30 Years)	33.33		
Annual Fugitive SF <sub>6</sub> Emissions	1.79		
<b>Total Annual CO<sub>2e</sub></b>	<b>35.12</b>		
SCAQMD Significance Threshold	10,000		
SCAQMD Significance Threshold Exceeded?	No		

Notes:

- MT = metric tons, CO<sub>2</sub> = carbon dioxide, CH<sub>4</sub> = methane, N<sub>2</sub>O = nitrous oxide, CO<sub>2e</sub> = carbon dioxide equivalent, SCAQMD = South Coast Air Quality Management District
- New circuit breaker will contain approximately 33 pounds of SF<sub>6</sub> with a maximum annual leak rate of 0.5 percent.