

## **APPENDIX C**

---

### Air Quality and Greenhouse Gas Emissions Calculations

**AT&T Japan-U.S. Cable Network Decommissioning (S8 and S9 Cables)**  
**CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS**  
**TABLE 1: CONSTRUCTION EMISSIONS SUMMARY - Montaña de Oro S9 Cable Alignment (Full Project)**

Source	Peak Day Emissions, lbs/day										Annual Emissions, tons/year										MTCO <sub>2</sub> e
	NOx+ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	DPM	CO	SO <sub>2</sub>	Fugitive Dust	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NOx+ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	DPM	CO	SO <sub>2</sub>	Fugitive Dust	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	
Pre-Survey Montana de Oro	148	0.953	0.953	0.953	1,910	0.0004	0.071	0.072	0.207	9,067	0.167	0.001	0.001	0.001	2.148	0.000	0.0001	0.0001	0.0002	10.2	9.30
Near Shore Montana de Oro	105	2.05	2.05	2.05	16.4	2.41	0.094	0.411	0.519	11,511	0.609	0.012	0.012	0.012	0.092	0.014	0.0001	0.002	0.003	66.7	61.2
Offshore Montana de Oro	1,932	38.4	37.3	38.4	230	42.2	0.000	5.43	5.75	153,602	13.80	0.276	0.268	0.276	1.639	0.303	0.0000	0.039	0.040	1091	1001
Onshore Montana de Oro	2.54	0.088	0.088	1.21	0.005	0.019	0.075	0.019	0.030	401	0.003	0.000	0.000	0.000	0.001	0.000	0.0001	0.000	0.000	0.401	0.369
<b>Peak Day Emissions, lb/day</b>	<b>1,932</b>	<b>38.4</b>	<b>37.3</b>	<b>38.4</b>	<b>1,910</b>	<b>42.2</b>	<b>0.094</b>	<b>5.43</b>	<b>5.75</b>	<b>153,602</b>	--	--	--	--	--	--	--	--	--	--	--
<b>Project Total Emissions, tons</b>	--	--	--	--	--	--	--	--	--	--	<b>14.58</b>	<b>0.289</b>	<b>0.281</b>	<b>0.289</b>	<b>3.88</b>	<b>0.318</b>	<b>0.0003</b>	<b>0.041</b>	<b>0.044</b>	<b>1169</b>	<b>1072</b>
<b>Quarterly Emissions, tons</b>	--	--	--	--	--	--	--	--	--	--	<b>14.58</b>	<b>0.289</b>	<b>0.281</b>	<b>0.289</b>	<b>3.88</b>	<b>0.318</b>	<b>0.0003</b>	<b>0.041</b>	<b>0.044</b>	<b>1169</b>	<b>1072</b>
<b>SLOAPCD Significance Thresholds</b>	<b>137</b>	--	--	<b>7.0</b>	--	--	--	--	--	--	<b>2.5/6.3</b>	--	--	<b>0.13/0.32</b>	--	--	<b>2.25</b>	--	--	--	--
<b>Threshold exceeded?</b>	<b>Yes</b>	--	--	<b>Yes</b>	--	--	--	--	--	--	<b>Yes/Yes</b>	--	--	<b>Yes/No</b>	--	--	<b>No</b>	--	--	--	--
<b>GHG - MTCO<sub>2</sub>e conversions</b>																		<b>273</b>	<b>27.9</b>	<b>1</b>	--
<b>Total MTCO<sub>2</sub>e, tons/yr</b>																		<b>1,072</b>			

**Notes:**

- Global Warming Potentials (273 for N<sub>2</sub>O, 27.9 for CH<sub>4</sub>, and 1 for CO<sub>2</sub>, Table 7.SM.6, Intergovernmental Panel on Climate Change (IPCC). 2021. Sixth Assessment Report

SLOAPCD - San Luis Obispo Air Pollution Control District

MTCO<sub>2</sub>e - Metric Tons of Carbon Dioxide Equivalent

NO<sub>x</sub> - Oxides of Nitrogen

ROG - Reactive Organic Gases

PM<sub>2.5</sub> - Particulate Matter 2.5 Microns or Less

PM<sub>10</sub> - Particulate Matter 10 Microns or Less

DPM - Diesel Particulate Matter

CO - Carbon Monoxide

SO<sub>2</sub> - Sulfur Dioxide

N<sub>2</sub>O - Nitrous Oxide

CH<sub>4</sub> - Methane

CO<sub>2</sub> - Carbon Dioxide



**AT&T Japan-U.S. Cable Network Decommissioning (S8 and S9 Cables)**  
**CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS**  
**TABLE 3: Near Shore Montana de Oro - (Full Project)**

**On-Site Sources - Equipment Operations**

Source	BHP	Load Factor	Number	Hours/Day	Duration (days)	Emission Factors (g/bhp-hr)								Peak Day Emissions (lbs/day)								Total Emissions (tons)										
						NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
Diving Support Vessel Main-1	600	33.6	1	12	16	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	25.439	0.955	0.474	0.474	3.822	0.609	0.104	0.123	2823	0.204	0.008	0.004	0.004	0.031	0.005	0.001	0.001	22.580
Diving Support Vessel Main-2	600	33.6	1	12	16	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	25.439	0.955	0.474	0.474	3.822	0.609	0.104	0.123	2823	0.204	0.008	0.004	0.004	0.031	0.005	0.001	0.001	22.580
Diving Support Vessel Generator-1	80	32.2	1	12	16	4.258	0.164	0.166	0.166	0.828	0.127	0.018	0.026	588	2.902	0.112	0.113	0.113	0.564	0.086	0.012	0.018	400	0.023	0.001	0.001	0.001	0.005	0.001	0.000	0.000	3.204
Diving Support Vessel Generator-2	80	32.2	1	12	16	4.019	0.149	0.167	0.167	0.694	0.127	0.016	0.026	588	2.739	0.102	0.114	0.114	0.473	0.086	0.011	0.018	400	0.022	0.001	0.001	0.001	0.004	0.001	0.000	0.000	3.204
Generator	25	74.0	1	12	6	4.426	0.697	0.178	0.178	2.390	0.007	0.004	0.062	568	2.166	0.341	0.087	0.087	1.170	0.003	0.002	0.030	278	0.006	0.001	0.000	0.000	0.004	0.000	0.000	0.000	0.834
MV Grace	1,520	66.6	1	0	0	7.830	0.393	0.243	0.223	0.820	0.299	0.022	0.007	490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MV Grace Generator	250	32.2	1	0	0	7.830	0.314	0.088	0.088	0.820	0.005	0.022	0.006	490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Main-1	800	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Main-2	800	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Bow-1	500	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Bow-2	500	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Stern-1	500	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Stern-2	500	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Generator-1	1,676	32.2	1	0	0	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Generator-2	1,676	32.2	1	0	0	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Generator-3	1,676	32.2	1	0	0	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Generator-4	1,676	32.2	1	0	0	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R/V Taku Main-1	300	100.0	1	0	0	5.820	3.530	0.060	0.060	120.3	0.000	0.004	0.013	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
R/V Taku Main-2	300	100.0	1	0	0	5.820	3.530	0.060	0.060	120.3	0.000	0.004	0.013	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Support Vessel/Anchor Handler Main-1	500	33.6	1	12	6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	21.199	0.796	0.395	0.395	3.185	0.508	0.086	0.103	2352	0.064	0.002	0.001	0.001	0.010	0.002	0.000	0.000	7.056
Support Vessel/Anchor Handler Main-2	500	33.6	1	12	6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	21.199	0.796	0.395	0.395	3.185	0.508	0.086	0.103	2352	0.064	0.002	0.001	0.001	0.010	0.002	0.000	0.000	7.056
Support Vessel/Tug Main-1	1,100	33.6	1	0	0	5.198	0.172	0.092	0.092	1.022	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Support Vessel/Tug Main-2	1,100	33.6	1	0	0	5.198	0.172	0.092	0.092	1.022	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
<b>Total</b>						<b>101.08</b>	<b>4.06</b>	<b>2.05</b>	<b>2.05</b>	<b>16.22</b>	<b>2.41</b>	<b>0.405</b>	<b>0.518</b>	<b>11428</b>	<b>0.586</b>	<b>0.023</b>	<b>0.012</b>	<b>0.012</b>	<b>0.092</b>	<b>0.014</b>	<b>0.002</b>	<b>0.003</b>	<b>66.51</b>									

**Offsite Onshore**

San Luis Obispo County

Vehicle	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	g/mile								Peak Day Emissions (lbs/day)								Total Emissions (tons)									
						NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>
Light-Duty Passenger Van-Highway	1	1	1	50	2	0.168	0.029	0.002	0.002	1.498	0.003	0.011	0.006	328.4	0.018	0.003	0.000	0.000	0.165	0.000	0.001	0.001	36.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036
Light-Duty Truck Class 2-Highway	1	1	2	25	6	0.053	0.009	0.005	0.005	0.094	0.003	0.045	0.000	282.8	0.006	0.001	0.001	0.001	0.010	0.000	0.005	0.000	31.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.094
Light-Duty Passenger Car-Highway	1	1	1	25	6	0.045	0.008	0.001	0.001	0.657	0.003	0.005	0.002	270.0	0.003	0.000	0.000	0.000	0.036	0.000	0.000	0.000	14.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045
<b>Total</b>						<b>0.027</b>	<b>0.005</b>	<b>0.001</b>	<b>0.001</b>	<b>0.212</b>	<b>0.001</b>	<b>0.006</b>	<b>0.001</b>	<b>82</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.174</b>	

**Offsite Onshore**

San Luis Obispo County

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust	PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust	PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust
Light-Duty Passenger Van-Highway	1	1	1	50	2	0.4276	0.1074	0.047130	0.0118366	0.000047	0.000012
Light-Duty Truck Class 2-Highway	1	1	1	25	2	0.4273	0.1073	0.023552	0.0059136	0.000024	0.000006
Light-Duty Passenger Car-Highway	1	1	1	25	2	0.4263	0.1069	0.023496	0.0058942	0.000023	0.000006
<b>Total</b>						<b>0.094178</b>	<b>0.023644</b>	<b>0.000094</b>	<b>0.000024</b>		

**Notes:**

- Hours per day and durations estimated or provided by client.
- Refer to Table 10 for emission and load factor sources.





**AT&T Japan-U.S. Cable Network Decommissioning (S8 and S9 Cables)**  
**CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS**  
**TABLE 6:Emission Factors and Assumptions - (Full Project)**

Onsite - Offshore				Emission Factors(g/bhp-hr)									Emission Factors(lbs/bhp-hr)								
Source	Tier	Operational Horsepower	Load Factor	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
Diving Support Vessel Main-1	3	600	33.6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
Diving Support Vessel Main-2	3	600	33.6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
Diving Support Vessel Generator-1	2	80	32.2	4.258	0.164	0.166	0.166	0.828	0.127	0.018	0.026	588	0.0094	0.0004	0.0004	0.0004	0.0018	0.00028	0.00004	0.00006	1.2955
Diving Support Vessel Generator-2	2	80	32.2	4.019	0.149	0.167	0.167	0.694	0.127	0.016	0.026	588	0.0089	0.0003	0.0004	0.0004	0.0015	0.00028	0.00004	0.00006	1.2955
Generator	--	25	74.0	4.426	0.697	0.178	0.178	2.390	0.007	0.0042	0.062	568	0.0098	0.0015	0.0004	0.0004	0.0053	0.00002	0.00001	0.00014	1.2529
MV Grace	1	1520	66.6	7.830	0.393	0.243	0.223	0.820	0.299	0.0216	0.007	490	0.0173	0.0009	0.0005	0.0005	0.0018	0.00066	0.00005	0.00002	1.0805
MV Grace Generator	2	250	32.2	7.830	0.314	0.088	0.088	0.820	0.005	0.0216	0.006	490	0.0173	0.0007	0.0002	0.0002	0.0018	0.00001	0.00005	0.00001	1.0805
ROV Support Vessel Main-1	3	800	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Main-2	3	800	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Bow-1	3	500	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Bow-2	3	500	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Stern-1	3	500	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Stern-2	3	500	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Generator-1	2	1676	32.2	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.0154	0.0003	0.0003	0.0003	0.0017	0.00025	0.00003	0.00005	1.1656
ROV Support Vessel Generator-2	2	1676	32.2	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.0154	0.0003	0.0003	0.0003	0.0017	0.00025	0.00003	0.00005	1.1656
ROV Support Vessel Generator-3	2	1676	32.2	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.0154	0.0003	0.0003	0.0003	0.0017	0.00025	0.00003	0.00005	1.1656
ROV Support Vessel Generator-4	2	1676	32.2	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.0154	0.0003	0.0003	0.0003	0.0017	0.00025	0.00003	0.00005	1.1656
R/V Taku Main-1	--	300	100.0	5.820	3.530	0.060	0.060	120	0.000	0.0042	0.013	568	0.0128	0.0078	0.0001	0.0001	0.2652	0.00000	0.00001	0.00003	1.2529
R/V Taku Main-2	--	300	100.0	5.820	3.530	0.060	0.060	120	0.000	0.0042	0.013	568	0.0128	0.0078	0.0001	0.0001	0.2652	0.00000	0.00001	0.00003	1.2529
Support Vessel/Anchor Handler Main-1	3	500	33.6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
Support Vessel/Anchor Handler Main-2	3	500	33.6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
Support Vessel/Tug Main-1	2	1100	33.6	5.20	0.17	0.09	0.09	1.02	0.11	0.02	0.02	529	0.0115	0.0004	0.0002	0.0002	0.0023	0.00025	0.00004	0.00005	1.1656
Support Vessel/Tug Main-2	2	1100	33.6	5.20	0.17	0.09	0.09	1.02	0.11	0.02	0.02	529	0.0115	0.0004	0.0002	0.0002	0.0023	0.00025	0.00004	0.00005	1.1656

**Offsite Onshore - OnRoad**  
San Luis Obispo County

Vehicle	Notes	g/mile									lbs/mile								
		NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
T7 Single Dump Class 8-Highway	55 mph	1.192	0.016	0.018	0.018	0.066	0.014	0.238	0.001	1510	0.00262	0.00003	0.00004	0.00015	0.00003	0.00052	0.00000	3.32245	
T7 Single Dump Class 8-Non-Highway	35 mph	1.723	0.019	0.008	0.007	0.158	0.016	0.259	0.001	1642	0.00379	0.00004	0.00002	0.00035	0.00003	0.00057	0.00000	3.61163	
T7 Tractor Class 8-Highway	55 mph	1.014	0.011	0.020	0.019	0.050	0.014	0.226	0.001	1432	0.00223	0.00002	0.00004	0.00011	0.00003	0.00050	0.00000	3.14996	
T7 Tractor Class 8-Non-Highway	35 mph	1.667	0.014	0.007	0.007	0.134	0.015	0.244	0.001	1546	0.00367	0.00003	0.00002	0.00030	0.00003	0.00054	0.00000	3.40147	
T7 Utility Class 8-Highway	55 mph	0.674	0.008	0.011	0.011	0.040	0.014	0.234	0.000	1488	0.00148	0.00002	0.00002	0.00009	0.00003	0.00052	0.00000	3.27275	
T7 Utility Class 8-Non-Highway	35 mph	1.060	0.009	0.004	0.004	0.105	0.015	0.253	0.000	1603	0.00233	0.00002	0.00001	0.00023	0.00003	0.00056	0.00000	3.52719	
T7 Single Concrete Class 8-Highway	55 mph	0.775	0.009	0.014	0.013	0.041	0.014	0.239	0.000	1518	0.00171	0.00002	0.00003	0.00009	0.00003	0.00053	0.00000	3.33890	
T7 Single Concrete Class 8-Non-Highway	35 mph	1.265	0.010	0.005	0.005	0.108	0.015	0.255	0.000	1617	0.00278	0.00002	0.00001	0.00024	0.00003	0.00056	0.00000	3.55668	
T6 Utility Class 6-Highway	55 mph	0.236	0.003	0.004	0.004	0.021	0.009	0.154	0.000	975	0.00052	0.00001	0.00001	0.00005	0.00002	0.00034	0.00000	2.14536	
T6 Utility Class 6-Non-Highway	35 mph	0.353	0.003	0.001	0.001	0.037	0.010	0.158	0.000	1004	0.00078	0.00001	0.00000	0.00008	0.00002	0.00035	0.00000	2.20926	
Light-Duty Truck Class 2-Highway	55 mph	0.053	0.009	0.005	0.005	0.094	0.003	0.045	0.000	283	0.00012	0.00002	0.00001	0.00021	0.00001	0.00010	0.00000	0.62221	
Light-Duty Truck Class 2-Non-Highway	35 mph	0.058	0.016	0.006	0.006	0.157	0.003	0.047	0.001	300	0.00013	0.00003	0.00001	0.00035	0.00001	0.00010	0.00000	0.66019	
Light-Duty Passenger Van-Highway	55 mph	0.168	0.029	0.002	0.002	1.498	0.003	0.011	0.006	328	0.00037	0.00006	0.00000	0.00330	0.00001	0.00003	0.00001	0.72258	
Light-Duty Passenger Non-Van-Highway	35 mph	0.173	0.038	0.002	0.002	1.972	0.003	0.012	0.008	317	0.00038	0.00008	0.00000	0.00434	0.00001	0.00003	0.00002	0.69635	
Light-Duty Passenger Car-Highway	55 mph	0.045	0.008	0.001	0.001	0.657	0.003	0.005	0.002	270	0.00010	0.00002	0.00000	0.00145	0.00001	0.00001	0.00000	0.59402	
Light-Duty Passenger Car-Non-Highway	35 mph	0.049	0.010	0.001	0.001	0.880	0.003	0.005	0.003	260	0.00011	0.00002	0.00000	0.00194	0.00001	0.00001	0.00001	0.57179	

**Offsite Dust - OnRoad**  
San Luis Obispo County

Source	Notes	Emission Factors (g/mile)		Emission Factors (lb/mile)	
		PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust	PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust
T7 Single Dump Class 8-Highway	55 mph	0.4921	0.1300	0.001085	0.000287
T7 Single Dump Class 8-Non-Highway	35 mph	0.5308	0.1435	0.001170	0.000316
T7 Tractor Class 8-Highway	55 mph	0.4920	0.1299	0.001085	0.000286
T7 Tractor Class 8-Non-Highway	35 mph	0.5307	0.1435	0.001170	0.000316
T7 Utility Class 8-Highway	55 mph	0.4920	0.1299	0.001085	0.000286
T7 Utility Class 8-Non-Highway	35 mph	0.5306	0.1435	0.001170	0.000316
T7 Single Concrete Class 8-Highway	55 mph	0.4921	0.1300	0.001085	0.000287
T7 Single Concrete Class 8-Non-Highway	35 mph	0.5308	0.1435	0.001170	0.000316
T6 Utility Class 6-Highway	55 mph	0.4642	0.1202	0.001023	0.000265
T6 Utility Class 6-Non-Highway	35 mph	0.4642	0.1202	0.001023	0.000265
Light-Duty Truck Class 2-Highway	55 mph	0.4273	0.1073	0.000942	0.000237
Light-Duty Truck Class 2-Non-Highway	35 mph	0.4371	0.1107	0.000964	0.000244
Light-Duty Passenger Van-Highway	55 mph	0.4276	0.1074	0.000943	0.000237
Light-Duty Passenger Non-Van-Highway	35 mph	0.4379	0.1110	0.000965	0.000245
Light-Duty Passenger Car-Highway	55 mph	0.4263	0.1069	0.000940	0.000236
Light-Duty Passenger Car-Non-Highway	35 mph	0.4359	0.1103	0.000961	0.000243

**Offsite Onshore - OnRoad**  
Mendocino County

Vehicle	Notes	g/mile										lbs/mile							
		NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
T7 Single Dump Class 8-Highway	55 mph	1.338	0.019	0.020	0.019	0.077	0.014	0.235	0.001	1493	0.00294	0.00004	0.00004	0.00004	0.00017	0.00003	0.00052	0.00000	3.28470
T7 Single Dump Class 8-Non-Highway	35 mph	1.858	0.024	0.009	0.009	0.178	0.015	0.257	0.001	1632	0.00409	0.00005	0.00002	0.00002	0.00039	0.00003	0.00057	0.00000	3.59100
T7 Tractor Class 8-Highway	55 mph	1.008	0.011	0.020	0.019	0.050	0.014	0.226	0.001	1432	0.00222	0.00002	0.00004	0.00004	0.00011	0.00003	0.00050	0.00000	3.15096
T7 Tractor Class 8-Non-Highway	35 mph	1.659	0.014	0.007	0.007	0.134	0.015	0.244	0.001	1547	0.00365	0.00003	0.00002	0.00002	0.00029	0.00003	0.00054	0.00000	3.40233
T7 Utility Class 8-Highway	55 mph	0.676	0.008	0.011	0.011	0.040	0.014	0.234	0.000	1488	0.00149	0.00002	0.00002	0.00002	0.00009	0.00003	0.00052	0.00000	3.27321
T7 Utility Class 8-Non-Highway	35 mph	1.061	0.009	0.004	0.004	0.106	0.015	0.253	0.000	1604	0.00233	0.00002	0.00001	0.00001	0.00023	0.00003	0.00056	0.00000	3.52874
T7 Single Concrete Class 8-Highway	55 mph	0.592	0.007	0.014	0.013	0.032	0.015	0.241	0.000	1532	0.00130	0.00002	0.00003	0.00003	0.00007	0.00003	0.00053	0.00000	3.37000
T7 Single Concrete Class 8-Non-Highway	35 mph	1.088	0.008	0.005	0.004	0.093	0.015	0.255	0.000	1620	0.00239	0.00002	0.00001	0.00001	0.00020	0.00003	0.00056	0.00000	3.56497
T6 Utility Class 6-Highway	55 mph	0.297	0.004	0.004	0.004	0.023	0.009	0.153	0.000	969	0.00065	0.00001	0.00001	0.00001	0.00005	0.00002	0.00034	0.00000	2.13118
T6 Utility Class 6-Non-Highway	35 mph	0.422	0.004	0.002	0.002	0.041	0.010	0.158	0.000	1004	0.00093	0.00001	0.00000	0.00000	0.00009	0.00002	0.00035	0.00000	2.20971
Light-Duty Truck Class 2-Highway	55 mph	0.229	0.016	0.009	0.009	0.181	0.003	0.046	0.001	291	0.00050	0.00004	0.00002	0.00002	0.00040	0.00001	0.00010	0.00000	0.63932
Light-Duty Truck Class 2-Non-Highway	35 mph	0.206	0.023	0.011	0.011	0.222	0.003	0.049	0.001	308	0.00045	0.00005	0.00002	0.00002	0.00049	0.00001	0.00011	0.00000	0.67836
Light-Duty Passenger Van-Highway	55 mph	0.287	0.050	0.002	0.002	2.335	0.003	0.018	0.011	338	0.00063	0.00011	0.00001	0.00000	0.00514	0.00001	0.00004	0.00002	0.74273
Light-Duty Passenger Non-Van-Highway	35 mph	0.295	0.066	0.003	0.003	3.042	0.003	0.019	0.014	326	0.00065	0.00014	0.00001	0.00001	0.00669	0.00001	0.00004	0.00003	0.71637
Light-Duty Passenger Car-Highway	55 mph	0.058	0.010	0.001	0.001	0.757	0.003	0.006	0.003	273	0.00013	0.00002	0.00000	0.00000	0.00167	0.00001	0.00001	0.00001	0.60054
Light-Duty Passenger Car-Non-Highway	35 mph	0.063	0.013	0.001	0.001	1.010	0.003	0.006	0.003	263	0.00014	0.00003	0.00000	0.00000	0.00222	0.00001	0.00001	0.00001	0.57786

**Offsite Dust - OnRoad**  
Mendocino County

Source	Notes	Emission Factors (g/mile)		Emission Factors (lb/mile)	
		PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust	PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust
T7 Single Dump Class 8-Highway	55 mph	0.4921	0.1300	0.001085	0.000287
T7 Single Dump Class 8-Non-Highway	35 mph	0.5309	0.1435	0.001170	0.000316
T7 Tractor Class 8-Highway	55 mph	0.4920	0.1299	0.001085	0.000286
T7 Tractor Class 8-Non-Highway	35 mph	0.5307	0.1435	0.001170	0.000316
T7 Utility Class 8-Highway	55 mph	0.4920	0.1299	0.001085	0.000286
T7 Utility Class 8-Non-Highway	35 mph	0.5306	0.1435	0.001170	0.000316
T7 Single Concrete Class 8-Highway	55 mph	0.4920	0.1300	0.001085	0.000286
T7 Single Concrete Class 8-Non-Highway	35 mph	0.5307	0.1435	0.001170	0.000316
T6 Utility Class 6-Highway	55 mph	0.4642	0.1202	0.001023	0.000265
T6 Utility Class 6-Non-Highway	35 mph	0.4642	0.1202	0.001023	0.000265
Light-Duty Truck Class 2-Highway	55 mph	0.4274	0.1073	0.000942	0.000237
Light-Duty Truck Class 2-Non-Highway	35 mph	0.4373	0.1108	0.000964	0.000244
Light-Duty Passenger Van-Highway	55 mph	0.4277	0.1074	0.000943	0.000237
Light-Duty Passenger Non-Van-Highway	35 mph	0.4382	0.1111	0.000966	0.000245
Light-Duty Passenger Car-Highway	55 mph	0.4263	0.1069	0.000940	0.000236
Light-Duty Passenger Car-Non-Highway	35 mph	0.4359	0.1103	0.000961	0.000243

**Notes:**

Emission Factors and load factors for construction equipment obtained from CalEEMod 2020, Appendix D, CalEEMod 2021, Appendix G.

Emission Factors and load factors for vessels and vessel generators obtained from Ports Emissions Inventory Guidance, EPA 2020

Emission factors for on-road vehicles obtained from EMFAC2021 (year 2023, aggregated model year).

N<sub>2</sub>O emissions factors from obtained State and Federal Mandatory Reporting Rule, Table 6 and based on an average of N<sub>2</sub>O offroad diesel engine emissions factors from obtained from CalEEMod 2022, Appendix G.

Horsepower for construction equipment and drilling generators obtained from client.

On-road trucks are assumed to be diesel powered and passenger cars are assumed to be gasoline powered.

PM<sub>10</sub> and PM<sub>2.5</sub> emissions from brake wear and on-road dust is included in the emissions factors for On-road vehicles.

-- Not Available or Applicable.

**AT&T Japan-U.S. Cable Network Decommissioning (S8 and S9 Cables)**  
**CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS**  
**TABLE 1: CONSTRUCTION EMISSIONS SUMMARY - Manchester S8 and S9 Cable Alignments (Within 3 Nautical Miles)**

Source	Peak Day Emissions, lbs/day											Annual Emissions, tons/year											MTCO <sub>2</sub> e
	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	DPM	CO	SO <sub>2</sub>	Fugitive Dust	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	DPM	CO	SO <sub>2</sub>	Fugitive Dust	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	
Pre-Survey Manchester	92.4	56.0	0.955	0.954	0.955	1,910	0.01	0.14	0.08	0.21	9,115	0.116	0.070	0.0012	0.0012	0.001	2.39	0.0000	0.0002	0.0001	0.0003	11.4	10.4
Near Shore Manchester	101	4.07	2.05	2.05	2.05	16.9	2.41	0.24	0.42	0.52	11,597	0.527	0.021	0.011	0.011	0.011	0.085	0.013	0.0009	0.002	0.003	60.1	55.1
Offshore Manchester	621	28.4	15.94	14.90	15.94	74.4	18.31	0.00	1.80	0.90	42,862	1.86	0.085	0.0478	0.0447	0.048	0.223	0.055	0.00000	0.005	0.003	129	118
<b>Peak Day Emissions, lb/day</b>	<b>621</b>	<b>56.0</b>	<b>15.9</b>	<b>14.9</b>	<b>15.9</b>	<b>1,910</b>	<b>18.3</b>	<b>0.235</b>	<b>1.80</b>	<b>0.904</b>	<b>42,862</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>Project Total Emissions, tons</b>	--	--	--	--	--	--	--	--	--	--	--	<b>2.51</b>	<b>0.176</b>	<b>0.060</b>	<b>0.057</b>	<b>0.060</b>	<b>2.70</b>	<b>0.067</b>	<b>0.0011</b>	<b>0.008</b>	<b>0.006</b>	<b>200</b>	<b>184</b>
<b>MCAQMD Significance Thresholds</b>	<b>54</b>	<b>54</b>	<b>82</b>	<b>54</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Threshold exceeded?</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>GHG - MTCO<sub>2</sub>e conversions</b>																				<b>273</b>	<b>27.9</b>	<b>1</b>	<b>--</b>
<b>Total MTCO<sub>2</sub>e, tons/yr</b>																				<b>184</b>			

**Notes:**  
- Global Warming Potentials (273 for N<sub>2</sub>O, 27.9 for CH<sub>4</sub>, and 1 for CO<sub>2</sub>, Table 7.SM.6, Intergovernmental Panel on Climate Change (IPCC). 2021. Sixth Assessment Report  
MCAQMD - Mendocino County Air Quality Management District  
MTCO<sub>2</sub>e - Metric Tons of Carbon Dioxide Equivalent  
NO<sub>x</sub> - Oxides of Nitrogen  
ROG - Reactive Organic Gases  
PM<sub>2.5</sub> - Particulate Matter 2.5 Microns or Less  
PM<sub>10</sub> - Particulate Matter 10 Microns or Less  
DPM - Diesel Particulate Matter  
CO - Carbon Monoxide  
SO<sub>2</sub> - Sulfur Dioxide  
N<sub>2</sub>O - Nitrous Oxide  
CH<sub>4</sub> - Methane  
CO<sub>2</sub> - Carbon Dioxide



**AT&T Japan-U.S. Cable Network Decommissioning (S8 and S9 Cables)**  
**CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS**  
**TABLE 3: Near Shore Manchester - (Within 3 Nautical Miles)**  
**On-Site Sources - Equipment Operations**

Source	BHP	Load Factor	Number	Hours/Day	Duration (days)	Emission Factors (g/bhp-hr)								Peak Day Emissions (lbs/day)								Total Emissions (tons)										
						NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
Diving Support Vessel Main-1	600	33.6	1	12	10	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	25.439	0.955	0.474	0.474	3.822	0.609	0.104	0.123	2822.5	0.127	0.005	0.002	0.002	0.019	0.003	0.001	0.001	14.113
Diving Support Vessel Main-2	600	33.6	1	12	10	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	25.439	0.955	0.474	0.474	3.822	0.609	0.104	0.123	2822.5	0.127	0.005	0.002	0.002	0.019	0.003	0.001	0.001	14.113
Diving Support Vessel Generator-1	80	32.2	1	12	10	4.258	0.164	0.166	0.166	0.828	0.127	0.018	0.026	588	2.902	0.112	0.113	0.113	0.564	0.086	0.012	0.018	400.4	0.015	0.001	0.001	0.001	0.003	0.000	0.000	0.000	2.002
Diving Support Vessel Generator-2	80	32.2	1	12	10	4.019	0.149	0.167	0.167	0.694	0.127	0.016	0.026	588	2.739	0.102	0.114	0.114	0.473	0.086	0.011	0.018	400.4	0.014	0.001	0.001	0.001	0.002	0.000	0.000	0.000	2.002
Generator	25	74.0	1	12	10	4.426	0.697	0.178	0.178	2.390	0.007	0.004	0.062	568	2.166	0.341	0.087	0.087	1.170	0.003	0.002	0.030	278.1	0.011	0.002	0.000	0.000	0.006	0.000	0.000	0.000	1.391
IMV Grace	1,520	66.6	1	0	0	7.830	0.393	0.243	0.223	0.820	0.299	0.022	0.007	490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IMV Grace Generator	250	32.2	1	0	0	7.830	0.314	0.088	0.088	0.820	0.005	0.022	0.006	490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Main-1	800	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Main-2	800	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Bow-1	500	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Bow-2	500	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Stern-1	500	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Stern-2	500	50.0	1	0	0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Generator-1	1,676	32.2	1	0	0	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Generator-2	1,676	32.2	1	0	0	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Generator-3	1,676	32.2	1	0	0	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ROV Support Vessel Generator-4	1,676	32.2	1	0	0	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R/V Taku Main-1	300	100.0	1	0	0	5.820	3.530	0.060	0.060	120	0.000	0.004	0.013	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
R/V Taku Main-2	300	100.0	1	0	0	5.820	3.530	0.060	0.060	120	0.000	0.004	0.013	568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Support Vessel/Anchor Handler Main-1	500	33.6	1	12	11	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	21.20	0.796	0.395	0.395	3.185	0.508	0.086	0.103	2352.1	0.117	0.004	0.002	0.002	0.018	0.003	0.000	0.001	12.94
Support Vessel/Anchor Handler Main-2	500	33.6	1	12	11	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	21.20	0.796	0.395	0.395	3.185	0.508	0.086	0.103	2352.1	0.117	0.004	0.002	0.002	0.018	0.003	0.000	0.001	12.94
Support Vessel/Tug Main-1	1,100	33.6	1	0	0	5.198	0.172	0.092	0.092	1.022	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Support Vessel/Tug Main-2	1,100	33.6	1	0	0	5.198	0.172	0.092	0.092	1.022	0.114	0.019	0.023	529	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Total</b>						<b>101.08</b>	<b>4.06</b>	<b>2.05</b>	<b>2.05</b>	<b>16.22</b>	<b>2.41</b>	<b>0.40</b>	<b>0.52</b>	<b>11,428</b>	<b>0.53</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.08</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>59.49</b>	

**Offsite - Transportation to Field**

San Joaquin Valley

Vehicle	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	g/mile								Peak Day Emissions (lbs/day)								Total Emissions (tons)										
						NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
Light-Duty Passenger Van-Highway	1	1	1	100	2	0.287	0.050	0.002	0.002	2.335	0.003	0.018	0.011	338	0.063	0.011	0.001	0.000	0.515	0.001	0.004	0.002	74.4	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.074
Light-Duty Truck Class 2-Highway	1	1	2	50	11	0.229	0.016	0.009	0.009	0.181	0.003	0.046	0.001	291	0.050	0.004	0.002	0.002	0.040	0.001	0.010	0.000	64.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.352
Light-Duty Passenger Car-Highway	1	1	1	50	11	0.058	0.010	0.001	0.001	0.757	0.003	0.006	0.003	273.0	0.006	0.001	0.000	0.000	0.083	0.000	0.001	0.000	30.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.165
<b>Total</b>						<b>0.120</b>	<b>0.016</b>	<b>0.003</b>	<b>0.003</b>	<b>0.638</b>	<b>0.002</b>	<b>0.015</b>	<b>0.003</b>	<b>169</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.638</b>	<b>0.002</b>	<b>0.015</b>	<b>0.003</b>	<b>169</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.001</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.592</b>

**Offsite Onshore**

Mendocino County

Source	Peak Round Trips/Day	Average Round Trips/Day	Number of Vehicles	Length of Round Trip (miles)	Duration (days)	Emission Factors (g/mile)		Peak Day Emissions (lb/day)		Total Emissions (tons)	
						PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust	PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust	PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust
Light-Duty Passenger Van-Highway	1	1	1	100	2	0.4277	0.1074	0.094282	0.02368072	0.000094	0.000024
Light-Duty Truck Class 2-Highway	1	1	2	50	11	0.4274	0.1073	0.094220	0.02365903	0.000518	0.000130
Light-Duty Passenger Car-Highway	1	1	1	50	11	0.4263	0.1069	0.046994	0.011788726	0.000258	0.000065
<b>Total</b>						<b>0.235496</b>	<b>0.059128</b>	<b>0.000871</b>	<b>0.000219</b>		

**Notes:**

- Hours per day and durations estimated or provided by client.
- Refer to Table 10 for emission and load factor sources.
- Offsite round trips are assumed to be from outside of Mendocino County.



**AT&T Japan-U.S. Cable Network Decommissioning (S8 and S9 Cables)**  
**CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS**  
**TABLE 5: Emission Factors and Assumptions - (Within 3 Nautical Miles)**

Onsite - Offshore				Emission Factors(g/bhp-hr)									Emission Factors(lbs/bhp-hr)								
Source	Tier	Operational Horsepower	Load Factor	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>2</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
Diving Support Vessel Main-1	3	600	33.6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
Diving Support Vessel Main-2	3	600	33.6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
Diving Support Vessel Generator-1	2	80	32.2	4.258	0.164	0.166	0.166	0.828	0.127	0.018	0.026	588	0.0094	0.0004	0.0004	0.0004	0.0018	0.00028	0.00004	0.00006	1.2955
Diving Support Vessel Generator-2	2	80	32.2	4.019	0.149	0.167	0.167	0.694	0.127	0.016	0.026	588	0.0089	0.0003	0.0004	0.0004	0.0015	0.00028	0.00004	0.00006	1.2955
Generator	--	25	74.0	4.426	0.697	0.178	0.178	2.390	0.007	0.0042	0.062	568	0.0098	0.0015	0.0004	0.0004	0.0053	0.00002	0.00001	0.00014	1.2529
MV Grace	1	1520	66.6	7.830	0.393	0.243	0.223	0.820	0.299	0.0216	0.007	490	0.0173	0.0009	0.0005	0.0005	0.0018	0.00066	0.00005	0.00002	1.0805
MV Grace Generator	2	250	32.2	7.830	0.314	0.088	0.088	0.820	0.005	0.0216	0.006	490	0.0173	0.0007	0.0002	0.0002	0.0018	0.00001	0.00005	0.00001	1.0805
ROV Support Vessel Main-1	3	800	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Main-2	3	800	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Bow-1	3	500	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Bow-2	3	500	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Stern-1	3	500	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Stern-2	3	500	50.0	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
ROV Support Vessel Generator-1	2	1676	32.2	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.0154	0.0003	0.0003	0.0003	0.0017	0.00025	0.00003	0.00005	1.1656
ROV Support Vessel Generator-2	2	1676	32.2	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.0154	0.0003	0.0003	0.0003	0.0017	0.00025	0.00003	0.00005	1.1656
ROV Support Vessel Generator-3	2	1676	32.2	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.0154	0.0003	0.0003	0.0003	0.0017	0.00025	0.00003	0.00005	1.1656
ROV Support Vessel Generator-4	2	1676	32.2	6.965	0.142	0.122	0.122	0.768	0.114	0.016	0.023	529	0.0154	0.0003	0.0003	0.0003	0.0017	0.00025	0.00003	0.00005	1.1656
R/V Taku Main-1	--	300	100.0	5.820	3.530	0.060	0.060	120	0.000	0.0042	0.013	568	0.0128	0.0078	0.0001	0.0001	0.2652	0.00000	0.00001	0.00003	1.2529
R/V Taku Main-2	--	300	100.0	5.820	3.530	0.060	0.060	120	0.000	0.0042	0.013	568	0.0128	0.0078	0.0001	0.0001	0.2652	0.00000	0.00001	0.00003	1.2529
Support Vessel/Anchor Handler Main-1	3	500	33.6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
Support Vessel/Anchor Handler Main-2	3	500	33.6	4.765	0.179	0.089	0.089	0.716	0.114	0.019	0.023	529	0.0105	0.0004	0.0002	0.0002	0.0016	0.00025	0.00004	0.00005	1.1656
Support Vessel/Tug Main-1	2	1100	33.6	5.20	0.17	0.09	0.09	1.02	0.11	0.02	0.02	529	0.0115	0.0004	0.0002	0.0002	0.0023	0.00025	0.00004	0.00005	1.1656
Support Vessel/Tug Main-2	2	1100	33.6	5.20	0.17	0.09	0.09	1.02	0.11	0.02	0.02	529	0.0115	0.0004	0.0002	0.0002	0.0023	0.00025	0.00004	0.00005	1.1656

**Offsite Onshore - OnRoad**  
San Luis Obispo County

Vehicle	Notes	g/mile									lbs/mile								
		NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
T7 Single Dump Class 8-Highway	55 mph	1.192	0.016	0.018	0.018	0.066	0.014	0.238	0.001	1510	0.00262	0.00003	0.00004	0.00004	0.00015	0.00003	0.00052	0.00000	3.32245
T7 Single Dump Class 8-Non-Highway	35 mph	1.723	0.019	0.008	0.007	0.158	0.016	0.259	0.001	1642	0.00379	0.00004	0.00002	0.00002	0.00035	0.00003	0.00057	0.00000	3.61163
T7 Tractor Class 8-Highway	55 mph	1.014	0.011	0.020	0.019	0.050	0.014	0.226	0.001	1432	0.00223	0.00002	0.00004	0.00004	0.00011	0.00003	0.00050	0.00000	3.14996
T7 Tractor Class 8-Non-Highway	35 mph	1.667	0.014	0.007	0.007	0.134	0.015	0.244	0.001	1546	0.00367	0.00003	0.00002	0.00002	0.00030	0.00003	0.00054	0.00000	3.40147
T7 Utility Class 8-Highway	55 mph	0.674	0.008	0.011	0.011	0.040	0.014	0.234	0.000	1488	0.00148	0.00002	0.00002	0.00002	0.00009	0.00003	0.00052	0.00000	3.27275
T7 Utility Class 8-Non-Highway	35 mph	1.060	0.009	0.004	0.004	0.105	0.015	0.253	0.000	1603	0.00233	0.00002	0.00001	0.00001	0.00023	0.00003	0.00056	0.00000	3.52719
T7 Single Concrete Class 8-Highway	55 mph	0.775	0.009	0.014	0.013	0.041	0.014	0.239	0.000	1518	0.00171	0.00002	0.00003	0.00003	0.00009	0.00003	0.00053	0.00000	3.33890
T7 Single Concrete Class 8-Non-Highway	35 mph	1.265	0.010	0.005	0.005	0.108	0.015	0.255	0.000	1617	0.00278	0.00002	0.00001	0.00001	0.00024	0.00003	0.00056	0.00000	3.55668
T6 Utility Class 6-Highway	55 mph	0.236	0.003	0.004	0.004	0.021	0.009	0.154	0.000	975	0.00052	0.00001	0.00001	0.00001	0.00005	0.00002	0.00034	0.00000	2.14536
T6 Utility Class 6-Non-Highway	35 mph	0.353	0.003	0.001	0.001	0.037	0.010	0.158	0.000	1004	0.00078	0.00001	0.00000	0.00000	0.00008	0.00002	0.00035	0.00000	2.20926
Light-Duty Truck Class 2-Highway	55 mph	0.053	0.009	0.005	0.005	0.094	0.003	0.045	0.000	283	0.00012	0.00002	0.00001	0.00001	0.00021	0.00001	0.00010	0.00000	0.62221
Light-Duty Truck Class 2-Non-Highway	35 mph	0.058	0.016	0.006	0.006	0.157	0.003	0.047	0.001	300	0.00013	0.00003	0.00001	0.00001	0.00035	0.00001	0.00010	0.00000	0.66019
Light-Duty Passenger Van-Highway	55 mph	0.168	0.029	0.002	0.002	1.498	0.003	0.011	0.006	328	0.00037	0.00006	0.00000	0.00000	0.00330	0.00001	0.00003	0.00001	0.72258
Light-Duty Passenger Non-Van-Highway	35 mph	0.173	0.038	0.002	0.002	1.972	0.003	0.012	0.008	317	0.00038	0.00008	0.00000	0.00000	0.00434	0.00001	0.00003	0.00002	0.69635
Light-Duty Passenger Car-Highway	55 mph	0.045	0.008	0.001	0.001	0.657	0.003	0.005	0.002	270	0.00010	0.00002	0.00000	0.00000	0.00145	0.00001	0.00001	0.00000	0.59402
Light-Duty Passenger Car-Non-Highway	35 mph	0.049	0.010	0.001	0.001	0.880	0.003	0.005	0.003	260	0.00011	0.00002	0.00000	0.00000	0.00194	0.00001	0.00001	0.00001	0.57179

**Offsite Dust - OnRoad**  
San Luis Obispo County

Source	Notes	Emission Factors (g/mile)		Emission Factors (lb/mile)	
		PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust	PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust
T7 Single Dump Class 8-Highway	55 mph	0.4921	0.1300	0.001085	0.000287
T7 Single Dump Class 8-Non-Highway	35 mph	0.5308	0.1435	0.001170	0.000316
T7 Tractor Class 8-Highway	55 mph	0.4920	0.1299	0.001085	0.000286
T7 Tractor Class 8-Non-Highway	35 mph	0.5307	0.1435	0.001170	0.000316
T7 Utility Class 8-Highway	55 mph	0.4920	0.1299	0.001085	0.000286
T7 Utility Class 8-Non-Highway	35 mph	0.5306	0.1435	0.001170	0.000316
T7 Single Concrete Class 8-Highway	55 mph	0.4921	0.1300	0.001085	0.000287
T7 Single Concrete Class 8-Non-Highway	35 mph	0.5308	0.1435	0.001170	0.000316
T6 Utility Class 6-Highway	55 mph	0.4642	0.1202	0.001023	0.000265
T6 Utility Class 6-Non-Highway	35 mph	0.4642	0.1202	0.001023	0.000265
Light-Duty Truck Class 2-Highway	55 mph	0.4273	0.1073	0.000942	0.000237
Light-Duty Truck Class 2-Non-Highway	35 mph	0.4371	0.1107	0.000964	0.000244
Light-Duty Passenger Van-Highway	55 mph	0.4276	0.1074	0.000943	0.000237
Light-Duty Passenger Non-Van-Highway	35 mph	0.4379	0.1110	0.000965	0.000245
Light-Duty Passenger Car-Highway	55 mph	0.4263	0.1069	0.000940	0.000236
Light-Duty Passenger Car-Non-Highway	35 mph	0.4359	0.1103	0.000961	0.000243

**Offsite Onshore - OnRoad**  
Mendocino County

Vehicle	Notes	g/mile										lbs/mile							
		NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>	NO <sub>x</sub>	ROG	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	SO <sub>x</sub>	N <sub>2</sub> O	CH <sub>4</sub>	CO <sub>2</sub>
T7 Single Dump Class 8-Highway	55 mph	1.338	0.019	0.020	0.019	0.077	0.014	0.235	0.001	1493	0.00294	0.00004	0.00004	0.00004	0.00017	0.00003	0.00052	0.00000	3.28470
T7 Single Dump Class 8-Non-Highway	35 mph	1.858	0.024	0.009	0.009	0.178	0.015	0.257	0.001	1632	0.00409	0.00005	0.00002	0.00002	0.00039	0.00003	0.00057	0.00000	3.59100
T7 Tractor Class 8-Highway	55 mph	1.008	0.011	0.020	0.019	0.050	0.014	0.226	0.001	1432	0.00222	0.00002	0.00004	0.00004	0.00011	0.00003	0.00050	0.00000	3.15096
T7 Tractor Class 8-Non-Highway	35 mph	1.659	0.014	0.007	0.007	0.134	0.015	0.244	0.001	1547	0.00365	0.00003	0.00002	0.00002	0.00029	0.00003	0.00054	0.00000	3.40233
T7 Utility Class 8-Highway	55 mph	0.676	0.008	0.011	0.011	0.040	0.014	0.234	0.000	1488	0.00149	0.00002	0.00002	0.00002	0.00009	0.00003	0.00052	0.00000	3.27321
T7 Utility Class 8-Non-Highway	35 mph	1.061	0.009	0.004	0.004	0.106	0.015	0.253	0.000	1604	0.00233	0.00002	0.00001	0.00001	0.00023	0.00003	0.00056	0.00000	3.52874
T7 Single Concrete Class 8-Highway	55 mph	0.592	0.007	0.014	0.013	0.032	0.015	0.241	0.000	1532	0.00130	0.00002	0.00003	0.00003	0.00007	0.00003	0.00053	0.00000	3.37000
T7 Single Concrete Class 8-Non-Highway	35 mph	1.088	0.008	0.005	0.004	0.093	0.015	0.255	0.000	1620	0.00239	0.00002	0.00001	0.00001	0.00020	0.00003	0.00056	0.00000	3.56497
T6 Utility Class 6-Highway	55 mph	0.297	0.004	0.004	0.004	0.023	0.009	0.153	0.000	969	0.00065	0.00001	0.00001	0.00001	0.00005	0.00002	0.00034	0.00000	2.13118
T6 Utility Class 6-Non-Highway	35 mph	0.422	0.004	0.002	0.002	0.041	0.010	0.158	0.000	1004	0.00093	0.00001	0.00000	0.00000	0.00009	0.00002	0.00035	0.00000	2.20971
Light-Duty Truck Class 2-Highway	55 mph	0.229	0.016	0.009	0.009	0.181	0.003	0.046	0.001	291	0.00050	0.00004	0.00002	0.00002	0.00040	0.00001	0.00010	0.00000	0.63932
Light-Duty Truck Class 2-Non-Highway	35 mph	0.206	0.023	0.011	0.011	0.222	0.003	0.049	0.001	308	0.00045	0.00005	0.00002	0.00002	0.00049	0.00001	0.00011	0.00000	0.67836
Light-Duty Passenger Van-Highway	55 mph	0.287	0.050	0.002	0.002	2.335	0.003	0.018	0.011	338	0.00063	0.00011	0.00001	0.00000	0.00514	0.00001	0.00004	0.00002	0.74273
Light-Duty Passenger Non-Van-Highway	35 mph	0.295	0.066	0.003	0.003	3.042	0.003	0.019	0.014	326	0.00065	0.00014	0.00001	0.00001	0.00669	0.00001	0.00004	0.00003	0.71637
Light-Duty Passenger Car-Highway	55 mph	0.058	0.010	0.001	0.001	0.757	0.003	0.006	0.003	273	0.00013	0.00002	0.00000	0.00000	0.00167	0.00001	0.00001	0.00001	0.60054
Light-Duty Passenger Car-Non-Highway	35 mph	0.063	0.013	0.001	0.001	1.010	0.003	0.006	0.003	263	0.00014	0.00003	0.00000	0.00000	0.00222	0.00001	0.00001	0.00001	0.57786

**Offsite Dust - OnRoad**  
Mendocino County

Source	Notes	Emission Factors (g/mile)		Emission Factors (lb/mile)	
		PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust	PM <sub>10</sub> Dust	PM <sub>2.5</sub> Dust
T7 Single Dump Class 8-Highway	55 mph	0.4921	0.1300	0.001085	0.000287
T7 Single Dump Class 8-Non-Highway	35 mph	0.5309	0.1435	0.001170	0.000316
T7 Tractor Class 8-Highway	55 mph	0.4920	0.1299	0.001085	0.000286
T7 Tractor Class 8-Non-Highway	35 mph	0.5307	0.1435	0.001170	0.000316
T7 Utility Class 8-Highway	55 mph	0.4920	0.1299	0.001085	0.000286
T7 Utility Class 8-Non-Highway	35 mph	0.5306	0.1435	0.001170	0.000316
T7 Single Concrete Class 8-Highway	55 mph	0.4920	0.1300	0.001085	0.000286
T7 Single Concrete Class 8-Non-Highway	35 mph	0.5307	0.1435	0.001170	0.000316
T6 Utility Class 6-Highway	55 mph	0.4642	0.1202	0.001023	0.000265
T6 Utility Class 6-Non-Highway	35 mph	0.4642	0.1202	0.001023	0.000265
Light-Duty Truck Class 2-Highway	55 mph	0.4274	0.1073	0.000942	0.000237
Light-Duty Truck Class 2-Non-Highway	35 mph	0.4373	0.1108	0.000964	0.000244
Light-Duty Passenger Van-Highway	55 mph	0.4277	0.1074	0.000943	0.000237
Light-Duty Passenger Non-Van-Highway	35 mph	0.4382	0.1111	0.000966	0.000245
Light-Duty Passenger Car-Highway	55 mph	0.4263	0.1069	0.000940	0.000236
Light-Duty Passenger Car-Non-Highway	35 mph	0.4359	0.1103	0.000961	0.000243

**Notes:**

Emission Factors and load factors for construction equipment obtained from CalEEMod 2020, Appendix D, CalEEMod 2021, Appendix G.

Emission Factors and load factors for vessels and vessel generators obtained from Ports Emissions Inventory Guidance, EPA 2020

Emission factors for on-road vehicles obtained from EMFAC2021 (year 2023, aggregated model year).

N<sub>2</sub>O emissions factors from obtained State and Federal Mandatory Reporting Rule, Table 6 and based on an average of N<sub>2</sub>O offroad diesel engine emissions factors from obtained from CalEEMod 2022, Appendix G.

Horsepower for construction equipment and drilling generators obtained from client.

On-road trucks are assumed to be diesel powered and passenger cars are assumed to be gasoline powered.

PM<sub>10</sub> and PM<sub>2.5</sub> emissions from brake wear and on-road dust is included in the emissions factors for On-road vehicles.

-- Not Available or Applicable.