OMB Control No. 1010-0151
OMB Approval Expires: xx/xx/202x

| | |
|---|---|
| COMPANY | |
| AREA | |
| BLOCK | |
| LEASE | |
| FACILITY | |
| WELL | |
| COMPANY CONTACT | |
| TELEPHONE NO. | |
| REMARKS | |

**AIR EMISSIONS COMPUTATION FACTORS**

| Fuel Usage Conversion Factors | Natural Gas Turbines | | | | Natural Gas Engines | | Diesel Recip. Engine | | Diesel Turbines | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SCF/hp-hr | 9.524 | | | SCF/hp-hr | 7.143 | GAL/hp-hr | 0.0514 | GAL/hp-hr | 0.0514 | | |

| Equipment/Emission Factors | units | TSP | PM10 | PM2.5 | SOx | NOx | VOC | Pb | CO | NH3 | REF. | DATE | Reference Links |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Natural Gas Turbine | g/hp-hr | | 0.0086 | 0.0086 | 0.0026 | 1.4515 | 0.0095 | N/A | 0.3719 | N/A | AP42 3.1-1& 3.1-2a | 4/00 | https://www3.epa.gov/ttnchie1/ap42/ch03/final/c03s01.pdf |
| RECIP. 2 Cycle Lean Natural Gas | g/hp-hr | | 0.1293 | 0.1293 | 0.0020 | 6.5998 | 0.4082 | N/A | 1.2009 | N/A | AP42 3.2-1 | 7/00 | https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf |
| RECIP. 4 Cycle Lean Natural Gas | g/hp-hr | | 0.0002 | 0.0002 | 0.0020 | 2.8814 | 0.4014 | N/A | 1.8949 | N/A | AP42 3.2-2 | 7/00 | https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf |
| RECIP. 4 Cycle Rich Natural Gas | g/hp-hr | | 0.0323 | 0.0323 | 0.0020 | 7.7224 | 0.1021 | N/A | 11.9408 | N/A | AP42 3.2-3 | 7/00 | https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf |
| Diesel Recip. < 600 hp | g/hp-hr | 1 | 1 | 1 | 0.0279 | 14.1 | 1.04 | N/A | 3.03 | N/A | AP42 3.3-1 | 10/96 | https://www3.epa.gov/ttnchie1/ap42/ch03/final/c03s03.pdf |
| Diesel Recip. > 600 hp | g/hp-hr | 0.32 | 0.182 | 0.178 | 0.0055 | 10.9 | 0.29 | N/A | 2.5 | N/A | AP42 3.4-1 & 3.4-2 | 10/96 | https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s04.pdf |
| Diesel Boiler | lbs/bbl | 0.0840 | 0.0420 | 0.0105 | 0.0089 | 1.0080 | 0.0084 | 5.14E-05 | 0.2100 | 0.0336 | AP42 1.3-6; Pb and NH3: WebFIRE (08/2018) | 9/98 and 5/10 | https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s03.pdfhttps://cfpub. |
| Diesel Turbine | g/hp-hr | 0.0381 | 0.0137 | 0.0137 | 0.0048 | 2.7941 | 0.0013 | 4.45E-05 | 0.0105 | N/A | AP42 3.1-1 & 3.1-2a | 4/00 | |
| Dual Fuel Turbine | g/hp-hr | 0.0381 | 0.0137 | 0.0137 | 0.0048 | 2.7941 | 0.0095 | 4.45E-05 | 0.3719 | 0.0000 | AP42 3.1-1& 3.1-2a; AP42 3.1-1 & 3.1-2a | 4/00 | https://www3.epa.gov/ttnchie1/ap42/ch03/final/c03s01.pdfhttps://cfpub. |
| Vessels – Propulsion | g/hp-hr | 0.320 | 0.1931 | 0.1873 | 0.0047 | 7.6669 | 0.2204 | 2.24E-05 | 1.2025 | 0.0022 | USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference | 3/19 | https://www.epa.gov/air-emissions-inventories/2017-national-emissions- |
| Vessels – Drilling Prime Engine, Auxiliary | g/hp-hr | 0.320 | 0.1931 | 0.1873 | 0.0047 | 7.6669 | 0.2204 | 2.24E-05 | 1.2025 | 0.0022 | USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference | 3/19 | |
| Vessels – Diesel Boiler | g/hp-hr | 0.0466 | 0.1491 | 0.1417 | 0.4400 | 1.4914 | 0.0820 | 3.73E-05 | 0.1491 | 0.0003 | USEPA 2017 NEI;TSP (units converted) refer to Diesel Boiler Reference | 3/19 | |
| Vessels – Well Stimulation | g/hp-hr | 0.320 | 0.1931 | 0.1873 | 0.0047 | 7.6669 | 0.2204 | 2.24E-05 | 1.2025 | 0.0022 | USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference | 3/19 | |
| Natural Gas Heater/Boiler/Burner | lbs/MMscf | 7.60 | 1.90 | 1.90 | 0.60 | 190.00 | 5.50 | 5.00E-04 | 84.00 | 3.2 | AP42 1.4-1 & 1.4-2; Pb and NH3: WebFIRE (08/2018) | 7/98 and 8/18 | https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdfhttps://cfpub. |
| Combustion Flare (no smoke) | lbs/MMscf | 0.00 | 0.00 | 0.00 | 0.57 | 71.40 | 35.93 | N/A | 325.5 | N/A | AP42 13.5-1, 13.5-2 | 2/18 | https://www3.epa.gov/ttn/chief/ap42/ch13/final/C13S05_02-05-18.pdf |
| Combustion Flare (light smoke) | lbs/MMscf | 2.10 | 2.10 | 2.10 | 0.57 | 71.40 | 35.93 | N/A | 325.5 | N/A | AP42 13.5-1, 13.5-2 | 2/18 | |
| Combustion Flare (medium smoke) | lbs/MMscf | 10.50 | 10.50 | 10.50 | 0.57 | 71.40 | 35.93 | N/A | 325.5 | N/A | AP42 13.5-1, 13.5-2 | 2/18 | |
| Combustion Flare (heavy smoke) | lbs/MMscf | 21.00 | 21.00 | 21.00 | 0.57 | 71.40 | 35.93 | N/A | 325.5 | N/A | AP42 13.5-1, 13.5-2 | 2/18 | |
| Liquid Flaring | lbs/bbl | 0.42 | 0.0966 | 0.0651 | 5.964 | 0.84 | 0.01428 | 5.14E-05 | 0.21 | 0.0336 | AP42 1.3-1 through 1.3-3 and 1.3-5 | 5/10 | https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s03.pdf |
| Storage Tank | tons/yr/tank | | | | | | 4.300 | | | | 2014 Gulfwide Inventory; Avg emiss (upper bound of 95% CI) | 2017 | https://www.boem.gov/environment/environmental-studies/2014-gulfwi |
| Fugitives | lbs/hr/component | | | | | | 0.0005 | | | | API Study | 12/93 | https://www.api.org/ |
| Glycol Dehydrator | tons/yr/dehydrator | | | | | | 19.240 | | | | 2011 Gulfwide Inventory; Avg emiss (upper bound of 95% CI) | 2014 | https://www.boem.gov/environment/environmental-studies/2011-gulfwi |
| Cold Vent | tons/yr/vent | | | | | | 44.747 | | | | 2014 Gulfwide Inventory; Avg emiss (upper bound of 95% CI) | 2017 | https://www.boem.gov/environment/environmental-studies/2014-gulfwi |
| Waste Incinerator | lb/ton | | 15.0 | 15.0 | 2.5 | 2.0 | N/A | N/A | 20.0 | N/A | AP 42 2.1-12 | 10/96 | https://www3.epa.gov/ttnchie1/ap42/ch02/final/c02s01.pdf |
| On-Ice – Loader | lbs/gal | 0.043 | 0.043 | 0.043 | 0.040 | 0.604 | 0.049 | N/A | 0.130 | 0.003 | USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference | 2009 | https://www.epa.gov/moves/nonroad2008a-installation-and-updates |
| On-Ice – Other Construction Equipment | lbs/gal | 0.043 | 0.043 | 0.043 | 0.040 | 0.604 | 0.049 | N/A | 0.130 | 0.003 | USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference | 2009 | |
| On-Ice – Other Survey Equipment | lbs/gal | 0.043 | 0.043 | 0.043 | 0.040 | 0.604 | 0.049 | N/A | 0.130 | 0.003 | USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference | 2009 | |
| On-Ice – Tractor | lbs/gal | 0.043 | 0.043 | 0.043 | 0.040 | 0.604 | 0.049 | N/A | 0.130 | 0.003 | USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference | 2009 | |
| On-Ice – Truck (for gravel island) | lbs/gal | 0.043 | 0.043 | 0.043 | 0.040 | 0.604 | 0.049 | N/A | 0.130 | 0.003 | USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference | 2009 | |
| On-Ice – Truck (for surveys) | lbs/gal | 0.043 | 0.043 | 0.043 | 0.040 | 0.604 | 0.049 | N/A | 0.130 | 0.003 | USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference | 2009 | |
| Man Camp - Operation (max people/day) | tons/person/day | | 0.0004 | 0.0004 | 0.0004 | 0.006 | 0.001 | N/A | 0.001 | N/A | BOEM 2014-1001 | 2014 | https://www.boem.gov/sites/default/files/uploadedFiles/BOEM/BOEM_Na |
| Vessels - Ice Management Diesel | g/hp-hr | 0.320 | 0.1931 | 0.1873 | 0.0047 | 7.6669 | 0.2204 | 2.24E-05 | 1.2025 | 0.0022 | USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference | 3/19 | https://www.epa.gov/air-emissions-inventories/2017-national-emissions-inventory-nei-data |
| Vessels - Hovercraft Diesel | g/hp-hr | 0.320 | 0.1931 | 0.1873 | 0.0047 | 7.6669 | 0.2204 | 2.24E-05 | 1.2025 | 0.0022 | USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference | 3/19 | https://www.epa.gov/air-emissions-inventories/2017-national-emissions-inventory-nei-data |

| Sulfur Content Source | Value | Units |
|---|---|---|
| Fuel Gas | 3.38 | ppm |
| Diesel Fuel | 0.0015 | % weight |
| Produced Gas (Flare) | 3.38 | ppm |
| Produced Oil (Liquid Flaring) | 1 | % weight |

| Density and Heat Value of Diesel Fuel | | |
|---|---|---|
| Density | 7.05 | lbs/gal |
| Heat Value | 19,300 | Btu/lb |

| Heat Value of Natural Gas | | |
|---|---|---|
| Heat Value | 1,050 | MMBtu/MMscf |

| Natural Gas Flare Parameters | Value | Units |
|---|---|---|
| VOC Content of Flare Gas | 0.6816 | lb VOC/lb-mol gas |
| Natural Gas Flare Efficiency | 98 | % |

**AIR EMISSIONS CALCULATIONS - 1ST YEAR**

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | **ESTIMATED TONS** | | | | | | | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2020 Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2020 Non-Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 2ND YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | | | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | | **ESTIMATED TONS** | | | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2021** | **Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2021** | **Non-Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 3RD YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | | | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | | | | **ESTIMATED TONS** | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2022 Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2022 Non-Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 4TH YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | **ESTIMATED TONS** | | | | | | | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2023** | **Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2023** | **Non-Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 5TH YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | | | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | | **ESTIMATED TONS** | | | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2024 Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2024 Non-Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 6TH YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | **ESTIMATED TONS** | | | | | | | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2025 Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2025 Non-Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 7TH YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | **ESTIMATED TONS** | | | | | | | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2025** | **Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2026** | **Non-Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 8TH YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | **ESTIMATED TONS** | | | | | | | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2027 Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2027 Non-Facility Total Emissions** | | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 9TH YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | | | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | | | | **ESTIMATED TONS** | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2028** | **Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2028** | **Non-Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |

# AIR EMISSIONS CALCULATIONS - 10TH YEAR

| COMPANY | AREA | | BLOCK | LEASE | FACILITY | WELL | | | | | CONTACT | | PHONE | | REMARKS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| **OPERATIONS** | **EQUIPMENT** | **EQUIPMENT ID** | **RATING** | **MAX. FUEL** | **ACT. FUEL** | **RUN TIME** | | | | | **MAXIMUM POUNDS PER HOUR** | | | | | | | | | | **ESTIMATED TONS** | | | | |
| | **Diesel Engines** | | **HP** | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Nat. Gas Engines** | | **HP** | **SCF/HR** | **SCF/D** | | | | | | | | | | | | | | | | | | | | |
| | **Burners** | | **MMBTU/HR** | **SCF/HR** | **SCF/D** | **HR/D** | **D/YR** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** | **TSP** | **PM10** | **PM2.5** | **SOx** | **NOx** | **VOC** | **Pb** | **CO** | **NH3** |
| DRILLING | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS- Drilling - Propulsion Engine - Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels - Diesel Boiler | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| | Vessels – Drilling Prime Engine, Auxiliary | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Heavy Lift Vessel/Derrick Barge Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | | | **BPD** | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | Liquid Flaring | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| WELL TEST | COMBUSTION FLARE - no smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - light smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - medium smoke | | | 0 | | 0 | 0 | 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 | -- |
| | COMBUSTION FLARE - heavy smoke | | | 0 | | 0 | 0 | 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 | -- |
| ALASKA-SPECIFIC SOURCES | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | VESSELS - Ice Management Diesel | | 0 | | | 0 | 0 | 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 |
| **2029** | **Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |
| **EXEMPTION CALCULATION** | **DISTANCE FROM LAND IN MILES** | | | | | | | | | | | | | | | | **0.00** | | | **0.00** | **0.00** | **0.00** | | **0.00** | |
| | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | VESSELS- Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Tugs Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| FACILITY INSTALLATION | VESSELS - Material Tug Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Crew Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| | VESSELS - Supply Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| PRODUCTION | VESSELS - Support Diesel | | 0 | 0 | 0.00 | 0 | 0 | 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 | 0.00 | 0.00 |
| ALASKA-SPECIFIC SOURCES | **On-Ice Equipment** | | | **GAL/HR** | **GAL/D** | | | | | | | | | | | | | | | | | | | | |
| | **Man Camp - Operation (maximum people per day)** | | **PEOPLE/DAY** | | | | | | | | | | | | | | | | | | | | | | |
| | **VESSELS** | | **kW** | | | **HR/D** | **D/YR** | | | | | | | | | | | | | | | | | | |
| | On-Ice – Loader | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Construction Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Other Survey Equipment | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Tractor | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for gravel island) | | | 0 | 0.0 | 0 | 0 | 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 |
| | On-Ice – Truck (for surveys) | | | 0 | 0.0 | 0 | 0 | 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 |
| | Man Camp - Operation | | 0 | | | 0 | 0 | 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 | |
| | VESSELS - Hovercraft Diesel | | 0 | | | 0 | 0 | 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 | 0.00 | 0.00 |
| **2029** | **Non-Facility Total Emissions** | | | | | | | **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** | **0.00** | **0.00** |

## AIR EMISSIONS CALCULATIONS

| COMPANY | AREA | BLOCK | LEASE | FACILITY | WELL | |
|---|---|---|---|---|---|---|
| 0 | | | | | | |

| Year | Facility Emitted Substance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | TSP | PM10 | PM2.5 | SOx | NOx | VOC | Pb | CO | NH3 |
| 2020 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2021 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2022 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2023 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2024 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2025 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2026 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2027 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2028 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2029 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Allowable | 0.00 | | | 0.00 | 0.00 | 0.00 | | 0.00 | |