ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM

INDIVIDUAL PERMIT MODIFICATION – FINAL

AK0062278 – EXXONMOBIL ALASKA LNG LLC, Cook Inlet Geotechnical Surveys

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, AK 99501

In compliance with the provisions of the Clean Water Act, 33 U.S.C. §1251 *et seq.*, as amended by the Water Quality Act of 1987, P.L. 100-4, this permit is issued under provisions of Alaska Statutes (AS) 46.03; the Alaska Administrative Code (AAC) as amended; and other applicable State laws and regulations. The

EXXONMOBIL ALASKA LNG LLC

is authorized to discharge from the geotechnical facility (facility) at the following location(s):

Outfall	Discharge Type	Receiving Waterbody
001	Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor	Cook Inlet
002	Deck Drainage	Cook Inlet

In accordance with the discharge point(s) effluent limitations, monitoring requirements, and other conditions set forth herein:

This permit and authorization became effective **July 31, 2015** and permit modifications for mixing zone size, borehole locations, and drilling fluids shall become effective **March 18, 2016**

This permit and the authorization to discharge shall expire at midnight, **July 30, 2020**

The permittee shall reapply for a permit reissuance on or before February 1, 2020, which is 180 days before the expiration of this permit if the permittee intends to continue operations and discharge(s) at the facility beyond the term of this permit.

The permittee shall post a copy of this permit to discharge on the jack-up rig and maintain copies at the Project offices in Anchorage and Kenai, and shall make it available to the public, employees, and subcontractors at the office locations.

Wade Strickland — February 19, 2016

Signature — Date

Wade Strickland — Program Manager

Printed Name — Title

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SCHEDULE OF SUBMISSIONS

The Schedule of Submissions summarizes some of the required submissions and activities ExxonMobil Alaska LNG LLC (EMALL or permittee) must complete and/or submit to the Alaska Department of Environmental Conservation (Department or DEC) during the term of this permit. The permittee is responsible for all submissions and activities even if they are not summarized below.

Table 1: Schedule of Submissions

Permit Part	Submittal or Completion	Frequency	Due Date	Submit to[a]
Appendix A, 3.2	Discharge Monitoring Report (DMR).	Monthly	Must be submitted January 31st of each year at a minimum. Upon completion of the project, all DMRs should be submitted with End of Survey report.	Compliance
4.1	Written notification that the Quality Assurance Project Plan (QAPP) has been developed and implemented.	1/permit cycle	Written notification at least 30 days prior to discharge.	Compliance
4.2	Written notification that the Best Management Practices (BMP) Plan has been developed and implemented.	1/permit cycle	Written notification at least 30 days prior to discharge.	Compliance
4.2	Annual review and recertification of BMP Plan.	Annually (if necessary)	January 31st of each year.	Compliance
1.3	End of Survey Report	One Time	60 days upon completion of the Geotechnical Survey Program.	Compliance
4.4	Notice of Termination	1/permit cycle	60 days upon completion of the Geotechnical Survey Program.	Permitting
Appendix A, 3.4	Oral notification of noncompliance.	As Necessary	Within 24 hours from the time the permittee becomes aware of the circumstances of noncompliance.	Compliance
Appendix A, 3.4	Written documentation of noncompliance.	As Necessary	Within 5 days after the permittee becomes aware of the circumstances.	Compliance

a) See Appendix A 1.1 for addresses

1.0 LIMITATIONS AND MONITORING REQUIREMENTS

1.1 Discharge Authorization

1.1.1 During the effective period of this permit, the permittee is authorized to discharge pollutants from Outfall 001 – Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor and Outfall 002 – Deck Drainage from the geotechnical facility to Cook Inlet, within the limits and subject to conditions set forth herein. This permit authorizes discharge of only those pollutants resulting from facility processes, waste streams, and operations clearly identified in the permit application process and described in the fact sheet. Borehole location adjustments or additions may vary up to 1,000 feet from those identified in Table 2 of the Modified Fact Sheet. Actual borehole location coordinates must be reported in the End of Survey Report (Section 1.3.1.2).

1.2 Effluent Limits and Monitoring

1.2.1 The permittee must limit and monitor discharges from Outfall 001 and Outfall 002 as specified in Table 2 and Table 3. All values represent maximum effluent limits, unless otherwise indicated. The permittee must comply with effluent limitations in the table at all times unless otherwise indicated, regardless of monitoring frequency or reporting required by other provisions of this permit.

Table 2: Effluent Limits and Monitoring Requirements for Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor Discharge (Outfall 001)

	Effluent Limits	Monitoring Requirements		
Parameter	**Limits**	**Sample Location**	**Sample Frequency**	**Sample Type**
Total Discharge Flow [a, b]	Report	Effluent	Each Borehole location, daily	Estimated
Oily Sheen [c]	No Discharge	Water Surface	While Drilling, daily	Visual
Oily Sheen [d]	No Discharge	Mud Pit	Prior to Discharge	Grab
Residues [e]	No Discharge	Water Surface	Daily	Visual

Notes:

a. The permittee must maintain a daily log while conducting geotechnical survey activities to record estimated flows and volumes, monitoring results, and visual observations. The information must be made available to DEC immediately upon request and summarized in the End of Survey Report (See Section 1.3).

b. Consistent with 18 AAC 70.250(b)(3), the permittee is prohibited from discharging at a time or location that could preclude or limit established processing activities or commercial, sport, personal use, or subsistence fish or shellfish harvesting (See Section 1.2.3).

c. The permittee must monitor for sheen by observing the surface of the receiving water in the vicinity of the discharge during daylight hours during low and high slack tides. Observations must be made while drilling and after discharge and recorded in a daily operating log. Visual sheen tests must be recorded and submitted in the End of Survey Report (See Section 1.3).

d. The permittee shall collect an effluent sample from the mud pit and conduct a Static Sheen Test (EPA Method 1617) prior to discharging the contents of the riser. Report the Static Sheen Test results, date and time of the sample, the geographic coordinates of the borehole and identifying name or number, and total estimated discharge volume in the End of Survey Report (See Section 1.3).

e. No discharge of floating solids, debris, sludge, deposits, foam, scum, residues other than the discharge of Outfall 001 and the associated zone of deposit authorized in Section 3.

Table 3: Effluent Limits and Monitoring Requirements for Deck Drainage Discharge (Outfall 002)

	Effluent Limits	Monitoring Requirements		
Parameter	**Limits**	**Sample Location**	**Sample Frequency**	**Sample Type**
Total Discharge Flow [a]	Report	Effluent	Monthly	Estimated
Oily Sheen [b]	No Discharge	Water Surface	Daily	Visual
Residues [c]	No Discharge	Water Surface	Daily	Visual

Notes:

a. Report estimated total monthly discharge volumes determined from daily records.

b. The permittee must monitor for sheen by observing the surface of the receiving water in the vicinity of the discharge during daylight hours during low and high slack tides. Observations must be made at least daily and be recorded in a daily operating log. Visual sheen tests must be recorded on monthly DMRs and submitted in the End of Survey Report (See Section 1.3)

c. No discharge of floating solids, debris, sludge, deposits, foam, scum, or residues other than residual drilling fluids and drill cuttings authorized in Table 3 that are washed off the deck.

1.2.2 Discharge shall not cause contamination of surface or ground waters, and shall not cause or contribute to a violation of the Alaska Water Quality Standards (18 AAC 70), except if excursions are authorized in accordance with applicable provisions in 18 AAC 70.240 – 70.270 (i.e. mixing zone).

1.2.3 Discharges are prohibited at a time or location that could preclude or limit established processing activities or commercial, sport, personal use, or subsistence fish or shellfish harvesting.

1.2.4 The permittee must collect drilling fluids samples from the mudpit and conduct a Static Sheen Test (EPA Method 1617) before discharging geotechnical drilling fluids and drill cuttings at the seafloor.

1.3 End of Survey Report

The Permitee is required to submit an End of Survey Report within 60 days after completing geotechnical survey activities as determined by the last day of reporting any discharge covered under the permit. The report must include discharges for Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor (Outfall 001) and for Deck Drainage (Outfall 002).

1.3.1 For Outfall 001 – Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor, the permittee shall report the following for each borehole and discharge:

1.3.1.1 Monthly DMRs for referenced outfall,

1.3.1.2 Beginning drill date, completion date, actual coordinate location of each borehole, and borehole diameter,

1.3.1.3 The total volume of drilling fluid created and added downhole at each site location,

1.3.1.4 The total volume of drilling fluid discharged to surface waters at each site location,

1.3.1.5 The estimated fluid loss at each site (if any),

1.3.1.6 Any unusual observations reported to DEC, and

1.3.1.7 Any supplemental information requested by DEC.

1.3.2 For Outfall 002 – Deck Drainage, the permittee shall report the following:

1.3.2.1 Monthly DMRs for referenced outfall,

1.3.2.2 Daily and total volume of estimated discharge during the project season.

2.0 MIXING ZONES

2.1 Parameters Authorized:

Chronic mixing zones are authorized for turbidity in the discharge of Drilling Fluids and Drill Cuttings at the Seafloor (Outfall 001).

2.2 Sizes and Orientations:

Chronic mixing zones are rectangular in shape with the area centered on Outfall 001 – Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor and aligned with the longitudinal axis parallel to the prevailing current directions. The mixing zones are area-specific and have the following dimensions and dilution factors.

2.2.1 The chronic mixing zones for boreholes on the west side of Cook Inlet (Beluga to Tyonek) extend from the sea surface to the sea floor with a length of 1,608 meters (804 meters in each current direction), a width of 81.5 meters, and an associated chronic dilution factor of 3,000.

2.2.2 The chronic mixing zones for boreholes on the east side of Cook Inlet (Nikiski area) extend from the sea surface to the sea floor with a length of 1696 meters (848 meters in each current direction), a width of 112 meters, and an associated chronic dilution factor of 1,500.

3.0 ZONE OF DEPOSIT

3.1 Parameters Authorized:

A zone of deposit is authorized for drill cuttings with drilling fluids (e.g., guar gum, purebore, and bentonite, and other approved fluids and additives) adhered to the particles from the discharge of Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor (Outfall 001) including cement used for plugging and abandoning the boreholes.

3.2 Sizes and Orientations:

The zone of deposit is centered on boreholes associated with Outfall 001 – Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor and extends radially 16 meters in all directions.

4.0 SPECIAL CONDITIONS

4.1 Quality Assurance Project Plan

4.1.1 The permittee shall develop a QAPP for all monitoring required by this permit. The permittee shall submit written notice to DEC that the QAPP has been developed and implemented at least 30 days prior to initiating discharges. An existing QAPP may be modified under this Part (See Section 4.1.5).

4.1.2 The QAPP must be designed to assist in planning for the collection and analysis of effluent samples and field observations in support of the permit and to help explain data anomalies whenever they occur.

4.1.3 The permittee must develop a facility-specific QAPP. A generic DEC Wastewater Treatment Facility QAPP is available from DEC that can be supplemented with facility-specific components.

4.1.4 Throughout all sample collection and analysis activities, the permittee shall use DEC-approved quality assurance and quality control (QA/QC) procedures and chain-of-custody procedures, as described in the *Requirements for Quality Assurance Project Plans* (EPA/QA/R-5) and *Guidance for Quality Assurance Project Plans* (EPA/QA/G-5). The QAPP must be prepared in the format specified in these documents.

4.1.5 At a minimum, a QAPP must include:

4.1.5.1 Details on number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection and quantification limits for each target compound, type and number of quality assurance field samples or observations, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements;

4.1.5.2 Maps indicating the location of each sampling/observation point;

4.1.5.3 Qualification and training of personnel; and

4.1.6 The permittee shall amend the QAPP whenever sample collection, sample analysis, or other procedures addressed by the QAPP is modified. Changes in the QAPP must be reported to DEC on or before January 31st.

4.1.7 Copies of the QAPP must be kept on site and made available to DEC upon request.

4.2 Best Management Practices Plan

4.2.1 Purpose. Through implementation of the BMP Plan the permittee shall prevent or minimize the generation and the potential for release of pollutants from the facility to the lands and waters of the U.S. through normal and ancillary activities.

4.2.2 Development and Implementation Schedule. The permittee shall develop and implement a BMP Plan which achieves the objectives and the specific requirements listed below. The permittee shall submit written notice to DEC that the BMP Plan has been developed and implemented at least 30 days prior to initiating a discharge under the permit. Any existing BMP Plans may be modified for compliance with this Part.

4.2.3 Objectives. The permittee shall develop and amend the BMP Plan consistent with the following objectives for the control of pollutants.

4.2.3.1 The number and quantity of pollutants and the toxicity of effluent generated, discharged, or potentially discharged at the facility must be minimized by the permittee to the extent feasible by managing each waste stream in the most appropriate manner.

4.2.3.2 Under the BMP Plan and especially within any standard operating procedures in the BMP Plan, the permittee shall ensure proper operation and maintenance of water management and wastewater treatment systems. BMP Plan elements must be developed in accordance with good engineering practices.

4.2.3.3 Each facility component or system must be examined for its waste minimization opportunities and its potential for causing a release of significant amounts of pollutants to lands and waters of the U.S. due to equipment failure, improper operation, natural phenomena such as rain, etc. The examination must include all normal operations and ancillary activities including material storage areas, storm water, in-plant transfer, material handling and process handling areas, loading or unloading operations, spillage or leaks, sludge and waste disposal, or drainage from raw material storage.

4.2.4 Elements of the BMP Plan. The BMP Plan must be consistent with the objectives above and the general guidance contained in the *Guidance Manual for Developing Best Management Practices* (EPA 833-B-93-004, October 1993) and *Storm Water Management for Industrial Activities, Developing Pollution Prevention Plans and Best Management Practices* (EPA 832-R-92-006) or any subsequent revision to these guidance documents.

4.2.5 Plan Components. The BMP Plan must include, at a minimum, the following items:

4.2.5.1 Statement of BMP Policy. The BMP Plan must include a statement of management commitment to provide the necessary financial, staff, equipment, and training resources to develop and implement the BMP Plan on a continuing basis.

4.2.5.2 The BMP Plan must establish a BMP Committee responsible for developing, implementing, and maintaining the BMP Plan. Specify the structure, functions, and procedures of the BMP Committee.

4.2.5.3 Description of potential pollutant sources.

4.2.5.4 Risk identification and assessment.

4.2.5.5 Standard operating procedures to achieve the above objectives and specific BMPs (see below).

4.2.5.6 Reporting of BMP incidents. The reports must include a description of the circumstances leading to the incident, corrective actions taken and recommended changes to operating and maintenance practices to prevent recurrence.

4.2.5.7 Materials compatibility.

4.2.5.8 Good housekeeping.

4.2.5.9 Inspections.

4.2.5.10 Preventative maintenance and repair.

4.2.5.11 Security.

4.2.5.12 Employee training.

4.2.5.13 Record keeping and reporting.

4.2.5.14 Prior evaluation of any planned modifications to the facility to ensure that the requirements of the BMP Plan are considered as part of the modifications.

4.2.6 Specific BMPs. The BMP Plan must establish BMPs or other measures to achieve the objectives under Part 4.2.3 which ensure that the following specific requirements are met:

4.2.6.1 Control pollutant sources that could be discharged with rain and washdown water from the geotechnical facility and to minimize to the extent practicable the volume of the drilling fluids and drill cuttings discharge at the seafloor. BMP's should consider the use of secondary containment around equipment or fuel, availability of spill kits, and sweeping the deck prior to any wash-down operations to minimize any discharge of sediment, drilling fluids and drill cuttings. BMPs must identify potential pollutant sources and aid in eliminating any contaminated discharges.

4.2.6.2 Ensure proper management of solid and hazardous waste in accordance with regulations promulgated under the Resource Conservation and Recovery Act (RCRA). Management practices required under RCRA regulations must be referenced in the BMP Plan.

4.2.7 Review and Recertification. The BMP must be reviewed and recertified as follows:

4.2.7.1 Annual review by the plant manager and BMP Committee.

4.2.7.2 Certified statement the above reviews were completed and the BMP Plan fulfills the requirements set forth in this permit. The statement must be certified by the dated signatures of each BMP Committee member. The statement must be submitted to DEC on or before January 31st of each year of operation under this permit after the initial BMP submittal (the initial statement must be submitted to DEC six months after submittal of the BMP Plan).

4.2.8 Documentation. The permittee must maintain a copy of the BMP at the facility and make it available to DEC or an authorized representative upon request.

4.2.9 BMP Plan Modification.

4.2.9.1 The permittee must amend the BMP Plan whenever a change in the facility or in the operation of the facility materially increases the generation of pollutants or their release or potential release to receiving waters.

4.2.9.2 The permittee must amend the BMP Plan whenever the plan is found to be ineffective in achieving the general objective of preventing and minimizing the generation and the potential for the release of pollutants from the facility to waters of the U.S.

4.2.9.3 Any changes to the BMP Plan must be consistent with the objectives and specific requirements listed above. All changes in the BMP Plan must be reported to DEC with the annual certification required under Part 4.2.7.2.

4.3 Time Area Restrictions

Discharging from Outfall 001 – Geotechnical Drilling Fluids and Drill Cuttings at the Seafloor at a time or location that could preclude or limit established processing activities or commercial, sport, personal use, or subsistence fish or shellfish harvesting is prohibited.

4.4 Notice of Termination

The permit is scheduled to expire five years from the effective date of the permit. However, upon completion of the Geotechnical Survey Program, the permittee is expected to request termination of the permit within 60 days. The permittee may submit the request to terminate the permit with the End of Survey Report. DEC will not terminate the permit if any enforcement actions pertaining to permit violations are pending.

APPENDIX A

STANDARD CONDITIONS

APDES PERMIT

NONDOMESTIC DISCHARGES

September 2011

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Appendix A of the permit contains standard regulatory language that must be included in all APDES permits. These requirements are based on the regulations and cannot be challenged in the context of an individual APDES permit action. The standard regulatory language covers requirements such as monitoring, recording, reporting requirements, compliance responsibilities, and other general requirements. Appendix A, Standard Conditions is an integral and enforceable part of the permit. Failure to comply with a Standard Condition in this Appendix constitutes a violation of the permit and is subject to enforcement.

1.0 Standard Conditions Applicable to All Permits

1.1 Contact Information and Addresses

1.1.1 Permitting Program

Documents, reports, and plans required under the permit and Appendix A are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone (907) 269-6285
Fax (907) 269-3487
Email: DEC.Water.WQPermit@alaska.gov

1.1.2 Compliance and Enforcement Program

Documents and reports required under the permit and Appendix A relating to compliance are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone Nationwide (877) 569-4114
Anchorage Area / International (907) 269-4114
Fax (907) 269-4604
Email: dec-wqreporting@alaska.gov

1.2 Duty to Comply

A permittee shall comply with all conditions of the permittee's APDES permit. Any permit noncompliance constitutes a violation of 33 U.S.C 1251-1387 (Clean Water Act) and state law and is grounds for enforcement action including termination, revocation and reissuance, or modification of a permit, or denial of a permit renewal application. A permittee shall comply with effluent standards or prohibitions established under 33 U.S.C. 1317(a) for toxic pollutants within the time provided in the regulations that establish those effluent standards or prohibitions even if the permit has not yet been modified to incorporate the requirement.

1.3 Duty to Reapply

If a permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee must apply for and obtain a new permit. In accordance with 18 AAC 83.105(b), a permittee with a currently effective permit shall reapply by submitting a new application at least 180 days before the existing permit expires, unless the Department has granted the permittee permission to submit an application on a later date. However, the Department will not grant permission for an application to be submitted after the expiration date of the existing permit.

1.4 Need to Halt or Reduce Activity Not a Defense

In an enforcement action, a permittee may not assert as a defense that compliance with the conditions of the permit would have made it necessary for the permittee to halt or reduce the permitted activity.

1.5 Duty to Mitigate

A permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

1.6 Proper Operation and Maintenance

1.6.1 A permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances that the permittee installs or uses to achieve compliance with the conditions of the permit. The permittee's duty to operate and maintain properly includes using adequate laboratory controls and appropriate quality assurance procedures. However, a permittee is not required to operate back-up or auxiliary facilities or similar systems that a permittee installs unless operation of those facilities is necessary to achieve compliance with the conditions of the permit.

1.6.2 Operation and maintenance records shall be retained and made available at the site.

1.7 Permit Actions

A permit may be modified, revoked and reissued, or terminated for cause as provided in 18 AAC 83.130. If a permittee files a request to modify, revoke and reissue, or terminate a permit, or gives notice of planned changes or anticipated noncompliance, the filing or notice does not stay any permit condition.

1.8 Property Rights

A permit does not convey any property rights or exclusive privilege.

1.9 Duty to Provide Information

A permittee shall, within a reasonable time, provide to the Department any information that the Department requests to determine whether a permittee is in compliance with the permit, or whether cause exists to modify, revoke and reissue, or terminate the permit. A permittee shall also provide to the Department, upon request, copies of any records the permittee is required to keep under the permit.

1.10 Inspection and Entry

A permittee shall allow the Department, or an authorized representative, including a contractor acting as a representative of the Department, at reasonable times and on presentation of credentials establishing authority and any other documents required by law, to:

1.10.1 Enter the premises where a permittee's regulated facility or activity is located or conducted, or where permit conditions require records to be kept;

1.10.2 Have access to and copy any records that permit conditions require the permittee to keep;

1.10.3 Inspect any facilities, equipment, including monitoring and control equipment, practices, or operations regulated or required under a permit; and

1.10.4 Sample or monitor any substances or parameters at any location for the purpose of assuring permit compliance or as otherwise authorized by 33 U.S.C. 1251-1387 (Clean Water Act).

1.11 Monitoring and Records

A permittee must comply with the following monitoring and recordkeeping conditions:

1.11.1 Samples and measurements taken for the purpose of monitoring must be representative of the monitored activity.

1.11.2 The permittee shall retain records in Alaska of all monitoring information for at least three years, or longer at the Department's request at any time, from the date of the sample, measurement, report, or application. Monitoring records required to be kept include:

1.11.2.1 All calibration and maintenance records,

1.11.2.2 All original strip chart recordings or other forms of data approved by the Department for continuous monitoring instrumentation,

1.11.2.3 All reports required by a permit,

1.11.2.4 Records of all data used to complete the application for a permit,

1.11.2.5 Field logbooks or visual monitoring logbooks,

1.11.2.6 Quality assurance chain of custody forms,

1.11.2.7 Copies of discharge monitoring reports, and

1.11.2.8 A copy of this APDES permit.

1.11.3 Records of monitoring information must include:

1.11.3.1 The date, exact place, and time of any sampling or measurement;

1.11.3.2 The name(s) of any individual(s) who performed the sampling or measurement(s);

1.11.3.3 The date(s) and time any analysis was performed;

1.11.3.4 The name(s) of any individual(s) who performed any analysis;

1.11.3.5 Any analytical technique or method used; and

1.11.3.6 The results of the analysis.

1.11.4 Monitoring Procedures

Analyses of pollutants must be conducted using test procedures approved under 40 CFR Part 136, adopted by reference at 18 AAC 83.010, for pollutants with approved test procedures, and using test procedures specified in the permit for pollutants without approved methods.

1.12 Signature Requirement and Penalties

1.12.1 Any application, report, or information submitted to the Department in compliance with a permit requirement must be signed and certified in accordance with 18 AAC 83.385. Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under a permit, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be subject to penalties under 33 U.S.C. 1319(c)(4), AS 12.55.035(c)(1)(B), (c)(2) and (c)(3), and AS 46.03.790(g).

1.12.2 In accordance with 18 AAC 83.385, an APDES permit application must be signed as follows:

1.12.2.1 For a corporation, a responsible corporate officer shall sign the application; in this subsection, a responsible corporate officer means:

1.12.2.1.1 A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or

1.12.2.1.2 The manager of one of more manufacturing, production, or operating facilities, if

1.12.2.1.2.1 The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;

1.12.2.1.2.2 The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and

1.12.2.1.2.3 Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

1.12.2.2 For a partnership or sole proprietorship, by the general partner or the proprietor, respectively, shall sign the application

1.12.2.3 For a municipality, state, federal, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means:

1.12.2.3.1 The chief executive officer of the agency; or

1.12.2.3.2 A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

1.12.3 Any report required by an APDES permit, and a submittal with any other information requested by the Department, must be signed by a person described in Appendix A, Part 1.12.2, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

1.12.3.1 The authorization is made in writing by a person described in Appendix A, Part 1.12.2;

1.12.3.2 The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, including the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility; or an individual or position having overall responsibility for environmental matters for the company; and

1.12.3.3 The written authorization is submitted to the Department to the Permitting Program address in Appendix A, Part 1.1.1.

1.12.4 If an authorization under Appendix A, Part 1.12.3 is no longer effective because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Appendix A, Part 1.12.3 must be submitted to the Department before or together with any report, information, or application to be signed by an authorized representative.

1.12.5 Any person signing a document under Appendix A, Part 1.12.2 or Part 1.12.3 shall certify as follows:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

1.13 Proprietary or Confidential Information

1.13.1 A permit applicant or permittee may assert a claim of confidentiality for proprietary or confidential business information by stamping the words “confidential business information” on each page of a submission containing proprietary or confidential business information. The Department will treat the stamped submissions as confidential if the information satisfies the test in 40 CFR §2.208, adopted by reference at 18 AAC 83.010, and is not otherwise required to be made public by state law.

1.13.2 A claim of confidentiality under Appendix A, Part 1.13.1 may not be asserted for the name and address of any permit applicant or permittee, a permit application, a permit, effluent data, sewage sludge data, and information required by APDES or NPDES application forms provided by the Department, whether submitted on the forms themselves or in any attachments used to supply information required by the forms.

1.13.3 A permittee’s claim of confidentiality authorized under Appendix A, Part 1.13.1 is not waived if the Department provides the proprietary or confidential business information to the EPA or to other agencies participating in the permitting process. The Department will supply any information obtained or used in the administration of the state APDES program to the EPA upon request under 40 CFR §123.41, as revised as of July 1, 2005. When providing information submitted to the Department with a claim of confidentiality to the EPA, the Department will notify the EPA of the confidentiality claim. If the Department provides the EPA information that is not claimed to be confidential, the EPA may make the information available to the public without further notice.

1.14 Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any action or relieve a permittee

from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under state laws addressing oil and hazardous substances.

1.15 Cultural and Paleontological Resources

If cultural or paleontological resources are discovered because of this disposal activity, work that would disturb such resources is to be stopped, and the Office of History and Archaeology, a Division of Parks and Outdoor Recreation of the Alaska Department of Natural Resources (http://www.dnr.state.ak.us/parks/oha/), is to be notified immediately at (907) 269-8721.

1.16 Fee

A permittee must pay the appropriate permit fee described in 18 AAC 72.

1.17 Other Legal Obligations

This permit does not relieve the permittee from the duty to obtain any other necessary permits from the Department or from other local, state, or federal agencies and to comply with the requirements contained in any such permits. All activities conducted and all plan approvals implemented by the permittee pursuant to the terms of this permit shall comply with all applicable local, state, and federal laws and regulations.

2.0 Special Reporting Obligations

2.1 Planned Changes

2.1.1 The permittee shall give notice to the Department as soon as possible of any planned physical alteration or addition to the permitted facility if:

2.1.1.1 The alteration or addition may make the facility a “new source” under one or more of the criteria in 18 AAC 83.990(44); or

2.1.1.2 The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged if those pollutants are not subject to effluent limitations in the permit or to notification requirements under 18 AAC 83.610.

2.1.2 If the proposed changes are subject to plan review, then the plans must be submitted at least 30 days before implementation of changes (see 18 AAC 15.020 and 18 AAC 72 for plan review requirements). Written approval is not required for an emergency repair or routine maintenance.

2.1.3 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.2 Anticipated Noncompliance

2.2.1 A permittee shall give seven days’ notice to the Department before commencing any planned change in the permitted facility or activity that may result in noncompliance with permit requirements.

2.2.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.3 Transfers

2.3.1 A permittee may not transfer a permit for a facility or activity to any person except after notice to the Department in accordance with 18 AAC 83.150. The Department may modify or revoke and reissue the permit to change the name of the permittee and incorporate such other requirements under 33 U.S.C. 1251-1387 (Clean Water Act) or state law.

2.3.2 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.4 Compliance Schedules

2.4.1 A permittee must submit progress or compliance reports on interim and final requirements in any compliance schedule of a permit no later than 14 days following the scheduled date of each requirement.

2.4.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.5 Corrective Information

2.5.1 If a permittee becomes aware that it failed to submit a relevant fact in a permit application or submitted incorrect information in a permit application or in any report to the Department, the permittee shall promptly submit the relevant fact or the correct information.

2.5.2 Information must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.6 Bypass of Treatment Facilities

2.6.1 Prohibition of Bypass

Bypass is prohibited. The Department may take enforcement action against a permittee for any bypass, unless:

2.6.1.1 The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

2.6.1.2 There were no feasible alternatives to the bypass, including use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. However, this condition is not satisfied if the permittee, in the exercise of reasonable engineering judgment, should have installed adequate back-up equipment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and

2.6.1.3 The permittee provides notice to the Department of a bypass event in the manner, as appropriate, under Appendix A, Part 2.6.2.

2.6.2 Notice of bypass

2.6.2.1 For an anticipated bypass, the permittee submits notice at least 10 days before the date of the bypass. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the conditions of Appendix A, Parts 2.6.1.1 and 2.6.1.2.

2.6.2.2 For an unanticipated bypass, the permittee submits 24-hour notice, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting.

2.6.2.3 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.6.3 Notwithstanding Appendix A, Part 2.6.1, a permittee may allow a bypass that:

2.6.3.1 Does not cause an effluent limitation to be exceeded, and

2.6.3.2 Is for essential maintenance to assure efficient operation.

2.7 Upset Conditions

2.7.1 In any enforcement action for noncompliance with technology-based permit effluent limitations, a permittee may claim upset as an affirmative defense. A permittee seeking to establish the occurrence of an upset has the burden of proof to show that the requirements of Appendix A, Part 2.7.2 are met.

2.7.2 To establish the affirmative defense of upset, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:

2.7.2.1 An upset occurred and the permittee can identify the cause or causes of the upset;

2.7.2.2 The permitted facility was at the time being properly operated;

2.7.2.3 The permittee submitted 24-hour notice of the upset, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting; and

2.7.2.4 The permittee complied with any mitigation measures required under 18 AAC 83.405(e) and Appendix A, Part 1.5, Duty to Mitigate.

2.7.3 Any determination made in administrative review of a claim that noncompliance was caused by upset, before an action for noncompliance is commenced, is not final administrative action subject to judicial review.

2.8 Existing Manufacturing, Commercial, Mining, and Silvicultural Discharges

2.8.1 In addition to the reporting requirements under 18 AAC 83.410, an existing manufacturing, commercial, mining, and silvicultural discharger shall notify the Department as soon as that discharger knows or has reason to believe that any activity has occurred or will occur that would result in:

2.8.1.1 The discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

2.8.1.1.1 One hundred micrograms per liter (100 µg/L);

2.8.1.1.2 Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile, 500 micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol, and one milligram per liter (1 mg/L) for antimony;

2.8.1.1.3 Five times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or

2.8.1.1.4 The level established by the Department in accordance with 18 AAC 83.445.

2.8.1.2 Any discharge, on a non-routine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

2.8.1.2.1 Five hundred micrograms per liter (500 µg/L);

2.8.1.2.2 One milligram per liter (1 mg/L) for antimony;

2.8.1.2.3 Ten times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or

2.8.1.2.4 The level established by the Department in accordance with 18 AAC 83.445.

3.0 Monitoring, Recording, and Reporting Requirements

3.1 Representative Sampling

A permittee must collect effluent samples from the effluent stream after the last treatment unit before discharge into the receiving waters. Samples and measurements must be representative of the volume and nature of the monitored activity or discharge.

3.2 Reporting of Monitoring Results

At intervals specified in the permit, monitoring results must be reported on the EPA discharge monitoring report (DMR) form, as revised as of March 1999, adopted by reference.

3.2.1 Monitoring results shall be summarized each month on the DMR or an approved equivalent report. The permittee must submit reports monthly postmarked by the 15th day of the following month.

3.2.2 The permittee must sign and certify all DMRs and all other reports in accordance with the requirements of Appendix A, Part 1.12, Signatory Requirements and Penalties. All signed and certified legible original DMRs and all other documents and reports must be submitted to the Department at the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

3.2.3 If, during the period when this permit is effective, the Department makes available electronic reporting, the permittee may, as an alternative to the requirements of Appendix A, Part 3.2.2, submit monthly DMRs electronically by the 15th day of the following month in accordance with guidance provided by the Department. The permittee must certify all DMRs and other reports, in accordance with the requirements of Appendix A, Part 1.12, Signatory Requirements and Penalties. The permittee must retain the legible originals of these documents and make them available to the Department upon request.

3.3 Additional Monitoring by Permittee

If the permittee monitors any pollutant more frequently than the permit requires using test procedures approved in 40 CFR Part 136, adopted by reference at 18 AAC 83.010, or as specified in this permit, the results of that additional monitoring must be included in the calculation and reporting of the data submitted in the DMR required by Appendix A, Part 3.2. All limitations that require averaging of measurements must be calculated using an arithmetic means unless the Department specifies another method in the permit. Upon request by the Department, the permittee must submit the results of any other sampling and monitoring regardless of the test method used.

3.4 Twenty-four Hour Reporting

A permittee shall report any noncompliance event that may endanger health or the environment as follows:

3.4.1 A report must be made:

3.4.1.1 Orally within 24 hours after the permittee becomes aware of the circumstances, and

3.4.1.2 In writing within five days after the permittee becomes aware of the circumstances.

3.4.2 A report must include the following information:

3.4.2.1 A description of the noncompliance and its causes, including the estimated volume or weight and specific details of the noncompliance;

3.4.2.2 The period of noncompliance, including exact dates and times;

3.4.2.3 If the noncompliance has not been corrected, a statement regarding the anticipated time the noncompliance is expected to continue; and

3.4.2.4 Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

3.4.3 An event that must be reported within 24 hours includes:

3.4.3.1 An unanticipated bypass that exceeds any effluent limitation in the permit (see Appendix A, Part 2.6, Bypass of Treatment Facilities).

3.4.3.2 An upset that exceeds any effluent limitation in the permit (see Appendix A, Part 2.7, Upset Conditions).

3.4.3.3 A violation of a maximum daily discharge limitation for any of the pollutants listed in the permit as requiring 24-hour reporting.

3.4.4 The Department may waive the written report on a case-by-case basis for reports under Appendix A, Part 3.4 if the oral report has been received within 24 hours of the permittee becoming aware of the noncompliance event.

3.4.5 The permittee may satisfy the written reporting submission requirements of Appendix A, Part 3.4 by submitting the written report via e-mail, if the following conditions are met:

3.4.5.1 The Noncompliance Notification Form or equivalent form is used to report the noncompliance;

3.4.5.2 The written report includes all the information required under Appendix A, Part 3.4.2;

3.4.5.3 The written report is properly certified and signed in accordance with Appendix A, Parts 1.12.3 and 1.12.5.;

3.4.5.4 The written report is scanned as a PDF (portable document format) document and transmitted to the Department as an attachment to the e-mail; and

3.4.5.5 The permittee retains in the facility file the original signed and certified written report and a printed copy of the conveying email.

3.4.6 The e-mail and PDF written report will satisfy the written report submission requirements of this permit provided the e-mail is received by the Department within five days after the time the permittee becomes aware of the noncompliance event and the e-mail and written report satisfy the criteria of Part 3.4.5. The e-mail address to report noncompliance is: dec-wqreporting@alaska.gov

3.5 Other Noncompliance Reporting

A permittee shall report all instances of noncompliance not required to be reported under Appendix A, Parts 2.4 (Compliance Schedules), 3.3 (Additional Monitoring by Permittee), and 3.4 (Twenty-four Hour Reporting) at the time the permittee submits monitoring reports under Appendix A, Part 3.2 (Reporting of Monitoring Results). A report of noncompliance under this part must contain the information listed in Appendix A, Part 3.4.2 and be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

4.0 Penalties for Violations of Permit Conditions

Alaska laws allow the State to pursue both civil and criminal actions concurrently. The following is a summary of Alaska law. Permittees should read the applicable statutes for further substantive and procedural details.

4.1 Civil Action

Under AS 46.03.760(e), a person who violates or causes or permits to be violated a regulation, a lawful order of the Department, or a permit, approval, or acceptance, or term or condition of a permit, approval or acceptance issued under the program authorized by AS 46.03.020 (12) is liable, in a civil action, to the State for a sum to be assessed by the court of not less than $500 nor more than $100,000 for the initial violation, nor more than $10,000 for each day after that on which the violation continues, and that shall reflect, when applicable:

4.1.1 Reasonable compensation in the nature of liquated damages for any adverse environmental effects caused by the violation, that shall be determined by the court according to the toxicity, degradability, and dispersal characteristics of the substance discharged, the sensitivity of the receiving environment, and the degree to which the discharge degrades existing environmental quality;

4.1.2 Reasonable costs incurred by the State in detection, investigation, and attempted correction of the violation;

4.1.3 The economic savings realized by the person in not complying with the requirements for which a violation is charged; and

4.1.4 The need for an enhanced civil penalty to deter future noncompliance.

4.2 Injunctive Relief

4.2.1 Under AS 46.03.820, the Department can order an activity presenting an imminent or present danger to public health or that would be likely to result in irreversible damage to the environment be discontinued. Upon receipt of such an order, the activity must be immediately discontinued.

4.2.2 Under AS 46.03.765, the Department can bring an action in Alaska Superior Court seeking to enjoin ongoing or threatened violations for Department-issued permits and Department statutes and regulations.

4.3 Criminal Action

Under AS 46.03.790(h), a person is guilty of a Class A misdemeanor if the person negligently:

4.3.1 Violates a regulation adopted by the Department under AS 46.03.020(12);

4.3.2 Violates a permit issued under the program authorized by AS 46.03.020(12);

4.3.3 Fails to provide information or provides false information required by a regulation adopted under AS 46.03.020(12);

4.3.4 Makes a false statement, representation, or certification in an application, notice, record, report, permit, or other document filed, maintained, or used for purposes of compliance with a permit issued under or a regulation adopted under AS 46.03.020(12); or

4.3.5 Renders inaccurate a monitoring device or method required to be maintained by a permit issued or under a regulation adopted under AS 46.03.020(12).

4.4 Other Fines

Upon conviction of a violation of a regulation adopted under AS 46.03.020(12), a defendant who is not an organization may be sentenced to pay a fine of not more than $10,000 for each separate violation (AS 46.03.790(g)). A defendant that is an organization may be sentenced to pay a fine not exceeding the greater of: (1) $200,00; (2) three times the pecuniary gain realized by the defendant as a result of the offense; or (3) three times the pecuniary damage or loss caused by the defendant to another, or the property of another, as a result of the offense (AS 12.55.035(c)(B), (c)(2), and (c)(3)).

Appendix B

Acronyms

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The following acronyms are common terms that may be found in an Alaska Pollutant Discharge Elimination System (APDES) permit.

18 AAC 15	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 15: Administrative Procedures
18 AAC 70	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 70: Water Quality Standards
18 AAC 72	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 72: Wastewater Disposal
18 AAC 83	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 83: Alaska Pollutant Discharge Elimination System

All chapters of Alaska Administrative Code, Title 18 are available at the Alaska Administrative Code database http://www.legis.state.ak.us/cgi-bin/folioisa.dll/aac

40 CFR	Code of Federal Regulations Title 40: Protection of Environment
AAC	Alaska Administrative Code
ACMP	Alaska Coastal Management Program
ADEC	Alaska Department of Environmental Conservation
Ag	Silver
AIDEA	Alaska Industrial Development and Export Authority
Al	Aluminum
As	Arsenic
APDES	Alaska Pollutant Discharge Elimination System
AS	Alaska Statutes
AS 46.03	Alaska Statutes Title 46, Chapter 03: Environmental Conservation.
BAT	Best Available Technology
BCT	Best Conventional Technology
BOD_5	Biochemical Oxygen Demand, 5-day
BMP	Best Management Practices
BPT	Best Practical Technology
C	Degrees Celsius
Cd	Cadmium
CFR	Code of Federal Regulations
COD	Chemical Oxygen Demand
Cr^{+3}	Chromium (III) or Trivalent Chromium
Cr^{+6}	Chromium (VI) or Hexavalent Chromium
Cu	Copper

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CWA	Clean Water Act
DEC	Alaska Department of Environmental Conservation
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EFH	Essential Fish Habitat
ELG	Effluent Limitation Guideline
EMALL	ExxonMobil Alaska LNG, LLC
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
FC	Fecal Coliform Bacteria
FDA	Food and Drug Administration
Fe	Iron
FWS	U.S. Fish and Wildlife Service
Gal. or gal.	Gallons
GPD or gpd	Gallons per day
GPM or gpm	Gallons per minute
GPY or gpy	Gallons per year
Hg	Mercury
IC_{25}	Inhibition Concentration 25%
I/I	Infiltration and Inflow
LC_{50}	Lethal Concentration 50%
LNG	Liquefied natural gas
MCF or mcf	Million cubic feet
MDL	Method Detection Limit
mg/L	Milligrams per Liter
MGD or mgd	Million gallons per day
MHHW	Mean Higher High Water
ML	Minimum Level
MLLW	Mean Lower Low Water
MODU	Mobile Offshore Drilling Unit
MZ	Mixing Zone
N	Nitrogen
N/A	Not Applicable
Ni	Nickel
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration

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NOEC	No Observed Effect Concentration
Pb	Lead
%	Percent
pH	Negative log of the activity of the hydrogen ion in an aqueous solution. Solutions with a pH less than 7 are said to be acidic and solutions with a pH greater than 7 are basic or alkaline.
POTW	Publicly Owned Treatment Works
PQL	Practical Quantification Limit
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
QC	Quality Control
RL	Reporting Limit
RCRA	Resource Conservation and Recovery ACT
RWC	Receiving Water Concentration
Se	Selenium
SAP	Sampling and Analysis Plan
SIU	Significant Industrial User
SU	Standard Units
TAH	Total Aromatic Hydrocarbons
TAqH	Total Aqueous Hydrocarbons
TBEL	Technology-based effluent limit
TIE	Toxicity Identification Evaluation
TRC	Total Residual Chlorine
TRE	Toxicity Reduction Evaluation
TSS	Total Suspended Solids
TUc	Toxic Unit, Chronic
µg/L	Micrograms per Liter
U.S.	United States
U.S.C.	United States Code
WET	Whole Effluent Toxicity
WQBEL	Water quality-based effluent limit
WQS	Water Quality Standards
WWTF	Wastewater Treatment Facility
Zn	Zinc

Appendix C

Definitions

APPENDIX C

The following are common definitions of terms associated with APDES permits. Not all the terms listed may appear in a permit. Consult the footnote references for a complete list of terms and definitions.

Alaska Pollutant Discharge Elimination System (APDES)[a]	Means the state's program, approved by EPA under 33 U.S.C. 1342(b), for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits and imposing and enforcing pretreatment requirements under 33 U.S.C. 1317, 1328, 1342, and 1345
Average Monthly Limit	Means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.
Annual	Means once per calendar year
Average	Means an arithmetic mean obtained by adding quantities and dividing the sum by the number of quantities
Average Monthly Discharge Limitation[a]	Means the highest allowable average of "daily discharges" over a calendar month calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured for that month
Ballast water	Means harbor or seawater added or removed to maintain the proper ballast floater level and ship draft and to conduct jack-up rig related sea bed support capability tests (e.g. jack-up rig preload water).
Bbl	Means barrel.
Best Management Practices (BMPs)[a]	Means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage areas.
Bilge water	Means water which collects in the lower internal parts of the drilling vessel hull
Biochemical Oxygen Demand (BOD)c	Means the amount, in milligrams per liter, of oxygen used in the biochemical oxidation of organic matter in five days at 20º C
Biocide	Means any chemical agent used for controlling the growth of or destroying nuisance organisms (e.g., bacteria, algae, and fungi)
Boiler Blowdown	Means the discharge of water and minerals drained from boiler drums to minimize solids build-up in the boiler
Borehole	Means 4 to 12 inch diameter holes drilled to assess the subsurface characteristics of the seafloor. Boreholes may be shallow (< 50 feet) or deep (> 50 feet)
Bypass[a]	Means the intentional diversion of waste streams from any portion of a treatment facility
Cement Slurry	Is the cement-bentonite mixture that may be used to plug a geotechnical borehole
Cessation or to Cease	Means to completely stop or discontinue an activity

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Chronic Toxic Unit (TU_c)	Is a measure of toxicity
Core	Means the undisturbed cylindrical sediment sample recovered from the borehole to the facility for laboratory analysis. Analysis (see also “Soil Boring, or Core Sample”)
Cone Penetration Test (CPT)	Is an in situ method to determine the geotechnical engineering properties of soils and delineating soil stratigraphy (rock layers) See also Electronic Cone Penetrometer
Clean Water Act (CWA)[a]	Means the federal law codified at 33 U.S.C. 1251-1387, also referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972
Coastal Waters	Means any location in or on a water of the United States landward of the inner boundary of the territorial seas.
Color[b]	Means the condition that results in the visual sensations of hue and intensity as measured after turbidity is removed
Commissioner[a]	Means the commissioner of the Alaska Department of Environmental Conservation or the commissioner’s designee
Composite Samples	Composite samples must consist of at least eight equal volume grab samples. 24 hour composite sample means a combination of at least eight discrete samples of equal volume collected at equal time intervals over a 24-hour period at the same location. A "flow proportional composite" sample means a combination of at least eight discrete samples collected at equal time intervals over a 24-hour period with each sample volume proportioned according to the flow volume. The sample aliquots must be collected and stored in accordance with procedures prescribed in the most recent edition of Standard Methods for the Examination of Water and Wastewater.
Contact Recreation[b]	Means activities in which there is direct and intimate contact with water. Contact recreation includes swimming, diving, and water skiing. Contact recreation does not include wading.
Criterion[b]	Means a set concentration or limit of a water quality parameter that, when not exceeded, will protect an organism, a population of organisms, a community of organisms, or a prescribed water use with a reasonable degree of safety. A criterion might be a narrative statement instead of a numerical concentration or limit.
Daily Discharge[a]	Means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants measured in units of mass, the “daily discharge” is calculated as the total mass of the pollutant discharged over the day. For pollutants with a limitation expressed in other units of measurement, the “daily discharge” is calculated as the average measurement of the pollutant over the day.
Deck Drainage	Means any waste resulting from deck washings, spillage, rainwater, and runoff from gutters and drains including drip pans and work areas within facilities subject to this general permit
Department[a]	Means the Alaska Department of Environmental Conservation
Desalination Unit Wastes	Means wastewater associated with the process of creating fresh water from seawater
Design Flow[a]	Means the wastewater flow rate that the plant was designed to handle

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Diesel Oil	Means the grade of distillate fuel oil, as specified in the American Society for Testing and Materials (ASTM) Standard Specifications for Diesel Fuel Oils D975-91 that is typically used as the continuous phase in conventional oil-based drilling fluids. For the purpose of this general permit, "diesel oil" includes the fuel oil present at the facility
Director[a]	Means the commissioner or the commissioner's designee assigned to administer the APDES program or a portion of it, unless the context identifies an EPA director
Discharge[a]	When used without qualification, discharge means the discharge of a pollutant
Discharge of a Pollutant[a]	Means any addition of any pollutant or combination of pollutants to waters of the United States from any point source or to waters of the contiguous zone or the ocean from any point source other than a vessel or other floating craft that is being used as a means of transportation. Discharge includes any addition of pollutants into waters of the United States from surface runoff that is collected or channeled by humans; discharges through pipes, sewers, or other conveyances owned by a state, municipality, or other person that do not lead to a treatment works; discharges through pipes, sewers, or other conveyances leading into privately owned treatment works; and does not include an addition of pollutants by any indirect discharger.
Domestic Wastewater[c]	Means waterborne human wastes or graywater derived from dwellings, commercial buildings, institutions, or similar structures. "Domestic wastewater" includes the contents of individual removable containers used to collect and temporarily store human wastes.
Drill Cuttings	For the purposes of this general permit, means particles generated during drilling into subsurface geologic formations and carried out of the hole with drilling fluids (e.g., seawater with additives) and discharges at the seafloor; Examples of drill cuttings include pieces of rock varying in size from fine silt to gravel
Drilling Fluids System	Means a formulation of circulating fluids (mud) and chemical additions used in the rotary drilling of wells to clean and condition the hole and to counterbalance formation pressure. The classes of drilling fluids are geotechnical guar gum or biopolymers, non-aqueous drilling fluid, and water-based fluids..
Drilling Fluid Additives	Include natural thickeners (i.e.; Attapulgite clay), a densifier or weighting agent (i.e., Barium Sulfate; Barite) and /or a lubricant (i.e., a polymer gel)
Drilling site	Means the single, specific geographical location where an exploratory facility (e.g., jack-up rig, drill ship, semi-submersible, or arctic mobile rig) is positioned (e.g., anchored, secured bottomfast, built on a gravel island or ice pad, etc.) and conducts its well drilling activity, including the seafloor area impacted by the drilling activity
Effluent[b]	Means the segment of a wastewater stream that follows the final step in a treatment process and precedes discharge of the wastewater stream to the receiving environment
Effluent Toxicity Characterization	For the purposes of this permit means a test designed to identify effluent discharge samples with positive toxicity results from effluent discharge without positive toxicity results using echinoderm fertilization success.
Electronic Cone Penetrometer	Is an in situ investigation method that involves pushing an electronically instrumented probe into the ground that records force resistance, such as tip pressure, local pressure, and pore water pressure. See also "CPT"

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Estimated	Means a way to estimate the discharge volume. Approvable estimations include, but are not limited to, the number of persons per day at the facility, volume of potable water produced per day, lift station run time, etc.
Excluded area	Means an area not authorized as a receiving water under a permit
Fecal Coliform Bacteria (FC)[b]	Bacteria that can ferment lactose at 44.5°C + 0.2°C to produce gas in a multiple tube procedure. Fecal coliform bacteria also means all bacteria that produce blue colonies in a membrane filtration procedure within 24 ± 2 hours of incubation at 44.5°C + 0.2°C in an M-FC broth.
Fire Control System Test Water	Means the water released during the training of personnel in fire protection and the testing and maintenance of fire protection equipment
Fish[b]	Means any of the group of cold-blooded vertebrates that live in water and have permanent gills for breathing and fins for locomotion
Free Oil	Any oil contained in a wastestream that when discharged will cause a film or sheen upon or a discoloration of the surface of the receiving water
Garbage	Means all kinds of victual, domestic, and operational waste, excluding fresh fish and part thereof, generated during the normal operation and liable to be disposed of continuously or periodically except dishwater, graywater, and those substances that are defined or listed in other Annexes to MARPOL 73/78
GC/MS	Means gas chromatography/mass spectrometry
Geometric Mean	The geometric mean is the Nth root of the product of N. All sample results of zero will use a value of 1 for calculation of the geometric mean. Example geometric mean calculation:
Geotechnical Survey	For the purpose of this permit means any subsurface investigation that collects sediment samples to assess the structural properties of subsurface soil condition for potential placement of structures such as oil and gas production and drilling platforms, ice islands, gravel islands, anchor structures for floating exploration drilling vessels, ports and harbors, and potentially buried pipeline corridors
Geotechnical Facility	For the purposes of this permit means any floating, moored, or stationary vessel, jack-up or lift barge actively conducting geotechnical surveying in open water. Goetechnical surveys conducted on shore are not considered geotechnical facilities.
Geotechnical Drilling	For the purpose of this permit means a geotechnical survey that uses advance drilling technology that uses a drilling fluid other than pure seawater.
Grab Sample	Means a single instantaneous sample collected at a particular place and time that represents the composition of wastewater only at that time and place
Graywater[b]	Means wastewater from a laundry, kitchen, sink, shower, bath, or other domestic source that does not contain excrement, urine, or combined storm water
Influent	Means untreated wastewater before it enters the first treatment process of a wastewater treatment works
Maximum Daily Discharge Limitation[a]	Means the highest allowable “daily discharge”

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Mean[b]	Means the average of values obtained over a specified period and, for fecal coliform analysis, is computed as a geometric mean.
Measured	Means the actual volume of wastewater discharged using appropriate mechanical or electronic equipment to provide a totalized reading. Measure does not provide a recorded measurement of instantaneous rates.
Milligrams per Liter (mg/L)[b]	Means the concentration at which one thousandth of a gram (10-3 g) is found in a volume of one liter. It is approximately equal to the unit "parts per million (ppm)," formerly of common use.
Mixing Zone[b]	Means a volume of water adjacent to a discharge in which wastes discharged mix with the receiving water
Month	Means the time period from the 1st of a calendar month to the last day in the month
Monthly Average	Means the average of daily discharges over a monitoring month calculated as the sum of all daily discharges measured during a monitoring month divided by the number of daily discharges measured during that month
Mudline Cellar	A 20 –by-40 foot area excavated into the seafloor where the blowout preventer is installed at a depth below ice scour of the seafloor.
Mud Pit	Is the unit where drilling fluids (muds) are mixed prior to the use during drilling operations. For the purpose of this general permit, discharges from mud pits (including mud pit clean-up) must occur at the seafloor and are authorized under Discharge 001
New Facility	Means a facility that has not operated in the area specified in the Notice of Intent (NOI) or individual permit application prior to the submission of the NOI or application.
Non-Contact Cooling Water	Means water used for contact, once-through cooling, including water used for equipment cooling, evaporative cooling tower makeup, and dilution of effluent heat content.
Offshore	Means offshore of the inner boundary of the territorial seas.
Open waters	Means ponds, lakes, streams, rivers, and marine waters not covered by ice.
Permittee	Means a company, organization, association, entity, or person who is issued a wastewater permit and is responsible for ensuring compliance, monitoring, and reporting as required by the permit
pH[g]	Means a measure of the hydrogen ion concentration of water or wastewater; expressed as the negative log of the hydrogen ion concentration in mg/L. A pH of 7 is neutral. A pH less than 7 is acidic, and a pH greater than 7 is basic.
Primary Treatment [c]	Means wastewater treatment that: (a) will subsequently discharge wastewater to land or waters that are not waters of the United States and substantially removes all floating and settleable solids; or uses fine screens with 0.04-inch or smaller openings; or (b) will subsequently discharge wastewater to waters of the United States and uses screening, sedimentation, and skimming adequate to remove at least 30 percent of the biochemical oxygen demanding material and of the suspended solids in the treatment works influent; and disinfection, where appropriate.

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Principal Executive Officer[a]	Means the chief executive officer of the agency or a senior executive officer having responsibility for the overall operations of a principal geographic unit of division of the agency
Pollutant[a]	Means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under 42 U.S.C. 2011), heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, or agricultural waste discharged into water
Receiving Waterbody	Means lakes, bays, sounds, ponds, impounding reservoirs, springs, wells, rivers, streams, creeks, estuaries, marshes, inlets, straits, passages, canals, the Pacific Ocean, Gulf of Alaska, Bering Sea, and Arctic Ocean, in the territorial limits of the state, and all other bodies of surface water, natural or artificial, public or private, inland or coastal, fresh or salt, which are wholly or partially in or bordering the state or under the jurisdiction of the state. (See "Waters of the U.S." at 18 AAC 83.990(77))
Recommencing Facilities	Those facilities that may have let permit coverage lapse but still meet the coverage requirements of the GP.
Report	Report results of analysis.
Residual Chlorine	Means chlorine remaining in water or wastewater at the end of a specified contact period as combined or free chlorine.
Responsible Corporate Officer[a]	Means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function or any other person who performs similar policy or Decision making functions for the corporation. The Responsible Corporate Officer can also be the manager of one or more manufacturing, production, or operating facilities if the requirements of 18 AAC 83.385(a)(1)(B)(i)-(iii) are met.
Secondary Recreation[b]	Means activities in which incidental water use can occur. Secondary recreation includes boating, camping, hunting, hiking, wading, and recreational fishing. Secondary contact recreation does not include fish consumption.

Notes:

a) See 18 AAC 83
b) See 18 AAC 70.990
c) See 18 AAC 72.990
d) See 40 CFR Part 136
e) See EPA Technical Support Document
f) See Standard Methods for the Examination of Water and Wastewater 18th Edition
g) See EPA Permit Writers Manual