# ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM
# AND
# WASTEWATER DISPOSAL AUTHORIZATION
# GENERAL PERMIT
# AKG320000 - STATEWIDE OIL AND GAS PIPELINES

**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 (CWA), 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 following discharges or disposals:

| DISCHARGE/DISPOSAL NUMBER | DISCHARGES/DISPOSAL DISCRIPTION |
|---|---|
| 001 (Discharge Only) | Drilling Fluids and Drill Cuttings |
| 002 (Discharge Only) | Domestic Wastewater |
| 003 | Gravel Pit Dewatering |
| 004 | Excavation Dewatering |
| 005 | Hydrostatic Test Water |
| 006 (Discharge Only) | Storm Water |
| 007 | Mobile Spill Response |
| 008 (Discharge Only) | Secondary Containment |

may be authorized by this Permit. Owners and operators of pipelines, are authorized to discharge wastewater discharges to waters of the United States and are authorized to dispose of non-domestic wastewater onto lands (i.e., into groundwater) of the State of Alaska, only in accordance with effluent limits, monitoring requirements, and other conditions set forth herein.

**A COPY OF THIS GENERAL PERMIT**
**MUST BE KEPT AT THE SITE WHERE DISCHARGES/DISPOSALS OCCUR.**

This Permit is effective **Pending**.

This Permit and the authorization to discharge shall expire at midnight on **[INSERT DATE]**.

The permittee shall reapply for a permit authorization reissuance (renewals) on or before **[INSERT DATE]**, 30 days before the expiration of this permit.

PRELIMINARY DRAFT

| | |
|---|---|
| Signature | Date |
| Printed Name | Title |

# TABLE OF CONTENTS

**SCHEDULE OF SUBMISSIONS ..... 2**

**1.0 PERMIT COVERAGE ..... 5**

1.1 Coverage and Eligibility ..... 5
1.2 Authorized Wastewater Discharges and Disposals ..... 6
1.3 Requiring an Individual Permit ..... 6
1.4 Prohibitions ..... 7
1.5 NOI/NOD Requirements, Review and, Permit Coverage Determination Process ..... 8
1.6 Notification Requirements ..... 9
1.7 Permit Expiration ..... 10

**2.0 LIMITS AND MONITORING REQUIREMENTS ..... 10**

2.1 Requirements for all Discharges or Disposals ..... 10
2.2 Effluent Limitations and Monitoring Requirements Drilling Fluids and Drill Cuttings (Discharge 001) ..... 11
2.3 Effluent Limitations and Monitoring Requirements Domestic Wastewater (Discharge 002) ..... 12
2.4 Effluent Limitations and Monitoring Requirements Gravel Pit Dewatering (Discharge 003) ..... 13
2.5 Effluent Limitations and Requirements Excavation Dewatering (Discharge 004) ..... 14
2.6 Effluent Limitations and Requirements Hydrostatic Test Water (Discharge 005) ..... 15
2.7 Effluent Limitations and Monitoring Requirements Mobile Spill Response (Discharge 007) ..... 17
2.8 Effluent Limitations and Monitoring Requirements Secondary Containment (Discharge 008) ..... 17
2.9 Land Disposal Limitations and Monitoring Requirements ..... 18
2.10 Monitoring Requirements ..... 19
2.11 Reporting of Monitoring Requirements ..... 20
2.12 Mixing Zone and Modification of Effluent Limits ..... 21

**3.0 SPECIAL CONDITIONS ..... 22**

3.1 Quality Assurance Project Plan ..... 22
3.2 Drilling Fluids Plan ..... 22
3.3 End of HDD Reports ..... 23
3.4 BMP Plan and Implementation of a BMP Toolkit ..... 24
3.5 Construction Storm Water (006) ..... 27
3.6 Additional Requirements for Operational Storm Water (006) ..... 31

## LIST OF TABLES:

Table 1: Schedule of Application Submissions – Notice of Intent (NOI)/Notice of Disposal (NOD)..... 3

Table 2: Schedule of Permittee Submissions – Reports, Certifications, Notifications, etc. ..... 4

Table 3: Effluent Limitations and Monitoring Requirements for Drilling Fluids and Drill Cuttings (Discharge 001)..... 11

Table 4: Effluent Limits and Monitoring Requirements for Domestic Wastewater (Discharge 002)..... 12

Table 5: Effluent Limits and Monitoring Requirements for Gravel Pit Dewatering (Discharge 003) ..... 13

Table 6: Effluent Limits and Monitoring Requirements for Excavation Dewatering (Discharge 004) ..... 14

Table 7: Effluent Limitations and Requirements for Hydrostatic Test Water (Discharge 005)..... 16

Table 8: Effluent Limitations and Monitoring Requirements for Mobile Spill Response (Discharge 007)..... 17

Table 9: Effluent Limitations and Monitoring Requirements for Secondary Containment (Discharge 008) ..... 18

Table 10: Disposal Limitations and Monitoring Requirements Gravel Pit Dewatering (003), Excavation Dewatering (004), Hydrostatic Testing (005), and Mobile Spill Response (007)..... 18

## APPENDICIES AND ATTACHMENTS

APPENDIX A – STANDARD CONDITIONS

APPENDIX B – ACRONYMS

APPENDIX C – DEFINITIONS

ATTACHMENT 1 – NOTICE OF INTENT FORM AND MIXING ZONE REQUESTS

ATTACHMENT 2 – NOTICE OF TERMINATION FORM

ATTACHMENT 3 – NOTICE OF NON-COMPLIANCE FORM

## SCHEDULE OF SUBMISSIONS

The Schedule of Submissions summarizes some of the required submissions and activities the permittee must complete and/or submit to the Alaska Department of Environmental Conservation (DEC or the Department) during the term of this permit. The applicant is responsible for submitting the following to the Wastewater Discharge Authorization Program Permitting Section [a].

**Table 1: Schedule of Application Submissions – Notice of Intent (NOI)/Notice of Disposal (NOD)**

| Permit Sections | Submittal | Frequency | Due Date |
|---|---|---|---|
| 1.5.1; 1.6.1 | NOI/NOD for new applicants to obtain authorization to discharge or dispose under this Permit. | 1/Permit cycle | 90 days prior to discharge/disposal. |
| 1.5.1; 1.6.2 | NOI/NOD for existing permittees getting first time coverage under this Permit | 1/Permit cycle | 90 days after effective date of this Permit |
| 1.5.1; 1.6.1 | NOI/NOD to revise an existing authorization under this Permit. | As Needed | 45 days prior to discharge/disposal |
| 1.5.1; 1.6.3 | NOI for administrative extension prior to Permit expiration for an existing authorization under the Permit. | 1/Permit cycle | 30 days before expiration |
| 1.5.1.5 | Plan Review Submitted for Domestic Wastewater for new facilities, if necessary. | 1/initial authorization | 90 days prior to discharge, with submittal of NOI |
| 1.5.1.5 | Plan Review Submitted for Nondomestic Wastewater for existing facilities, if necessary. | As Needed | 45 days prior to discharge/disposal |
| 1.5.1.3; 3.1.1 | Written certification that the Quality Assurance Project Plan (QAPP) has been developed and implemented for new a facility. | 1/initial authorization | Submit with NOI/NOD. |
| 1.5.1.1; 3.4.1.1 | Best Management Practices (BMP) Plan for a new authorization for DEC Files. | 1/initial authorization | Submit with NOI/NOD |
| 1.5.1.2; 3.5.1 | Storm Water Pollution Prevention Plan (SWPPP) for a new authorization for DEC Files. | 1/initial authorization | Submit SWPPP with NOI. |
| 1.5.1.6; 3.2.1 | Drilling Fluids Plan (DFP) for review and approval. | As Needed | 90 days prior to discharge. |
| 1.5.1.1; 3.4.1.1 | Written Certification that the BMP Plan has been revised and is ready for implementation at the site for an existing authorization for DEC Files. | 1/revised NOI/NOD | Submit with NOI/NOD. |
| 1.5.1.2; 3.5.1 | Written Certification that the SWPPP has been revised and is ready for implementation at the site for an existing authorization for DEC Files. | 1/revised NOI/NOD | Submit with NOI/NOD. |
| 1.6.7 | Notice of Termination for an Authorization | As Appropriate | At least 30 days prior to requested date of termination. |
| 1.6.6 | Notice of Termination for Individual Outfalls | As Needed | Submit 45 days prior to termination of Outfall. |

a) See Appendix A 1.1 for addresses.

The applicant is responsible for all submissions and activities even if they are not summarized above.

The permittee is responsible for submitting the following reports and notifications to the DEC Compliance and Enforcement Program [a].

**Table 2: Schedule of Permittee Submissions – Reports, Certifications, Notifications, etc.**

| Permit Section | Submittal | Frequency | Due Date |
|---|---|---|---|
| 2.11.1 | Discharge Monitoring Report (DMR) | Monthly | Must be submitted no later than the 28th of the following month. [b] |
| Appendix A 3.4.1.1 | Oral notification of noncompliance | As Necessary | Within 24 hours from the time the permittee becomes aware of the circumstances of noncompliance |
| Appendix A 3.4.1.2 | Written documentation of noncompliance | As Necessary | Within five days after the permittee becomes aware of the circumstances |
| 3.1.6 | Written certification that the QAPP has been reviewed and revised, if appropriate.. | Annually | Must be submitted January 31st following each calendar year. |
| 3.4.2.4 | Written Certification that the BMP Plan has been review and revised, if necessary. | Annually | Must be submitted January 31st following each calendar year. |
| 2.11.1.10; 2.11.1.11; 3.5.1 | Written Certification that the SWPPP has been reviewed and revised, if necessary. | Annually | Must be submitted January 31st following each calendar year. |
| 2.11.1.11; 3.6.2 | Semi-annual Operational SWPPP Pre-breakup & Post-break Inspection Certification. | Annually | Must be submitted January 31st following each calendar year. |
| 2.11.1.9 | Land Disposal Annual Reports | Annually | Must be submitted January 31st following each calendar year. |
| 3.3 | End of Horizontal Directional Drilling (HDD) Reports. | Annually | Must be submitted January 31st following each calendar year. |

a) See Appendix A 1.1 for addresses
b) This due date supersedes the date shown in Standard Conditions Appendix A - Sections 3.2.1 and 3.2.3 on Page A-9.

The permittee is responsible for all submissions and activities even if they are not summarized above.

# 1.0 PERMIT COVERAGE

## 1.1 Coverage and Eligibility

**1.1.1** This Permit authorizes and sets conditions on the discharge of pollutants from construction, operation, and maintenance activities for significant oil and gas pipelines to waters of the United States or disposed to lands of the State.

**1.1.2** This Permit will authorize discharges to fresh waters of the United States (U.S.) per 18 AAC 83 – Alaska Pollutant Discharge Elimination System (APDES) Program. The term “discharge” and “NOI” are used specifically for APDES permit requirements.

**1.1.3** This Permit will authorize disposal into groundwater or onto lands of the State per Alaska Statutes (AS) 46.03.100 – Waste Management and Disposal Authorization and Alaska Administrative Code (AAC) 18 AAC 72 – Wastewater Disposal. The term “dispose or disposal” and “NOD” are used specifically for State permit requirements.

**1.1.4** Automatic Disposal Authorizations to Land: Permittees with a current authorization are automatically authorized to dispose of Gravel Pit Dewatering (003), Excavation Dewatering (004), and Hydrostatic Test Water (005) without prior notification to the Department if: the disposal is less than 500,000 gallons per day (gpd); and the disposal is not within 1,500 feet of a contaminated site; and the disposal does not include the use of unapproved treatment chemicals, processes, or treatment systems (See Reporting Requirements Section 2.11.1.9).

**1.1.5** New Permittees: Facilities with wastewater discharges or disposals within the Permit Area of Coverage that meet the criteria for coverage under this Permit will be granted coverage upon submittal of a complete NOI/NOD that reasonably demonstrates authorization under this Permit is appropriate per Section 1.5.

**1.1.6** Existing Permittees: Facilities with an existing authorization or permit (i.e., AK0050563 – Alyeska Pipeline Services Company) must reapply by submitting an NOI/NOD per Section 1.5.1 to apply for Permit coverage required in Section 1.6.2.

**1.1.7** Existing Authorizations: Existing authorizations may be revised by submitting a NOI/NOD. The revised NOI/NOD must detail new discharges/disposals requested. Revisions to the authorization may also require termination of existing outfalls per Section 1.6.6.

**1.1.8** Applicants may request a mixing zone authorization from DEC by completing the mixing zone section of the NOI per Section 1.5.5.

**1.1.9** Authorization to discharge or dispose wastewater under this Permit requires written notification from the Department that coverage has been granted, and if requested, mixing zones have been authorized, and that a specific general permit authorization number has been assigned to the operation. Revisions to authorizations also require written notification from the Department prior to discharge or disposal.

## 1.2 Authorized Wastewater Discharges and Disposals

**1.2.1** This Permit authorizes and places conditions on wastewater discharges or disposals from activities that are related to pipeline construction and operations and maintenance. The Department must determine if the information submitted by the applicant seeking coverage under this Permit, is in accordance with Section 1.5.

**1.2.2** This Permit authorizes the following discharges from pipeline facilities:

| DISCHARGE/DISPOSAL NUMBER | DISCHARGES DESCRIPTION |
|---|---|
| 001 (Discharge Only) | Drilling Fluids and Drill Cuttings |
| 002 (Discharge Only) | Domestic Wastewater |
| 003 | Gravel Pit Dewatering |
| 004 | Excavation Dewatering |
| 005 | Hydrostatic Test Water |
| 006 (Discharge Only) | Storm Water |
| 007 | Mobile Spill Response |
| 008 (Discharge Only) | Secondary Contaminant |

## 1.3 Requiring an Individual Permit

**1.3.1** The Department may require a permittee authorized to discharge under a general permit to apply for and obtain an individual permit, or any interested person may petition the Department to take this action. The Department may consider the issuance of an individual discharge permit when:

**1.3.1.1** The single discharge or the cumulative number of discharges is/are a significant contributor of pollution;

**1.3.1.2** The permittee is not in compliance with or could not meet the terms and conditions of this Permit;

**1.3.1.3** A change has occurred in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source;

**1.3.1.4** Effluent limit guidelines are subsequently promulgated for the point sources covered by this Permit;

**1.3.1.5** A Total Maximum Daily Load and corresponding wasteload allocation have been completed for a waterbody or a segment of a waterbody;

**1.3.1.6** Circumstances have changed since the time of the request to be covered so that the permittee is no longer appropriately controlled under the GP, or either a temporary or permanent reduction or elimination of the authorized discharge is necessary; or

**1.3.2** The Department may require a permittee authorized to dispose under a general permit to apply for and obtain an individual permit or other wastewater authorization, or any interested person may petition the Department to take this action. The Department may consider the issuance of an individual disposal permit when:

**1.3.2.1** The disposal does not meet the requirements for a general permit;

**1.3.2.2** The disposal contributes to pollution or causes an adverse impact on public health or water quality;

**1.3.2.3** A change has occurred in the availability of demonstrated technology or practices for the control or abatement of pollution contained in the disposal;

**1.3.2.4** The public health, public and private water systems, and the environment are not adequately protected.

**1.3.3** The Department will notify the applicant in writing by certified mail that an individual permit application is required. If an applicant fails to submit an individual permit application by the date required in the notification, coverage under this Permit is automatically terminated at the end of the day specified for application submittal.

**1.3.4** Any permittee authorized by this Permit may request to be excluded from the coverage by applying for an individual permit. The permittee shall submit an individual permit application with reasons supporting the request to the Department at the address in Appendix A, Part 1.1.1.

**1.3.5** When an individual permit is issued to a permittee otherwise covered by this Permit, the applicability of this Permit to the permittee is automatically terminated on the effective date of the individual permit.

**1.3.6** When an individual permit is denied to a permittee otherwise covered by this Permit, the permittee is automatically reinstated under this Permit on the date of such denial, unless the permittee cannot meet the conditions of this Permit or otherwise specified by the Department.

**1.3.7** An applicant excluded from this Permit solely because it already has an individual permit may request that the individual permit be revoked and that it be covered by this Permit. Upon revocation of the individual permit, and if the permittee can comply with the terms of this Permit, then this Permit shall apply to the permittee.

## 1.4 Prohibitions

**1.4.1** The discharge of any pollutant that is not expressly authorized in this Permit is prohibited.

**1.4.2** The discharge or disposal of any waste streams, including spills and other unintentional or non-routine discharges of pollutants, that are not part of the normal operation of the facility is prohibited.

**1.4.3** This Permit prohibits the discharge to any receiving water that is listed on the CWA Section 303(d) list as impaired for failure to meet a water quality standard (WQS) and the facility discharges a pollutant that causes or contributes to the impairment.

**1.4.4** Discharges to marine waters are not authorized by this Permit.

**1.4.5** The discharge of diesel fuel, non-aqueous drilling fluids, and mineral oil pills (mineral oil plus additives) is prohibited.

**1.4.6** The discharge or disposal of maintenance waste such as removed paint and materials associated with surface preparation and coating application is prohibited. Such materials must be contained to the maximum extent practicable using vacuum abrasive blasting, covering grated areas with plywood, surrounding the area with canvas tarps, and similar measures to capture as much material as practicable. All collected material must be disposed of at an appropriate shore based facility. Prior to conducting sandblasting or similar maintenance activities, the permittee must develop and implement a BMP Plan for minimization and containment of the waste material.

## 1.5 NOI/NOD Requirements, Review and, Permit Coverage Determination Process

**1.5.1** Applicants shall submit a complete NOI/NOD Form (ATTACHMENT 1). The following must be attached to the NOI/NOD, if applicable, for it to be deemed administratively complete:

**1.5.1.1** BMP Plan: First time applicants seeking a written discharge or disposal authorization per 1.1.5, or existing permittees required to reapply per Section 1.1.6, are required to develop a BMP Plan (Section 3.4) and submit with the NOI/NOD for DEC files. For subsequent years of operation, applicants that have previously been authorized to discharge under this Permit must certify that the BMP plan was reviewed and any necessary revisions to reflect planned operations were made and implemented.

**1.5.1.2** SWPPP: First time applicants seeking a written discharge authorization for storm water are required to develop and implement a SWPPP (Section 3.5 or 3.6) that must be submitted with the first NOI for DEC files. For subsequent years of operation, applicants that have previously been authorized to discharge storm water under this Permit must certify that the SWPPP was reviewed and any necessary revisions to reflect planned operations were made and implemented.

**1.5.1.3** QAPP: First time applicants seeking a written discharge or disposal authorization are required to develop and implement a QAPP (Section 3.1). A certification that the QAPP has been developed and is ready for implementing must be submitted with the first NOI/NOD for DEC files. For subsequent years of operation, applicants that have previously been authorized to discharge under this Permit must submit a QAPP certification statement annually.

**1.5.1.4** Vicinity Maps and Site Plans: A vicinity map depicting the general location(s) of the discharge or disposal activities must be submitted with the NOI. The applicant must also provide site plans, when applicable, that provides details of the area of operations, the latitude and longitude of proposed discharge or disposal locations, and other information as described on the NOI/NOD Form.

**1.5.1.5** Plan Submittals per most recent version of 18 AAC 72: If a plan submittal is determined to be required, the applicant must submit plans for Department review. Department approval may be required prior to authorizing a discharge or disposal.

**1.5.1.6** DFP: The applicant must provide information that describes the nature of the drilling fluid system in order for the Department to classify the fluids system as an A1, A2, or A3 fluid per Appendix C - Definitions. Applicants seeking a written discharge authorization for inadvertent releases of drilling fluids and drill cuttings during HDD are required to develop a DFP for Class A2 and A3 drilling fluids (Section 3.2) that must be submitted with the NOI. DEC will review the plan and may provide written comments on the DFP to ensure compliance under this Permit.

**1.5.2** The Department will review an NOI/NOD for completeness and accuracy. If an NOI/NOD is found to be technically incomplete, the Department will notify the applicant of the needed changes to the NOI/NOD submittal.

**1.5.3** The Department will make a determination regarding the appropriateness of granting Permit coverage at a proposed discharge or disposal location or area of operation.

**1.5.4** Initial location coordinates provided in the NOI/NOD may be modified in the field based on unforeseen conditions so long as the relocation is within the area described on the detailed site plan and would not have resulted in disapproving it as the original discharge or disposal location (e.g., proximity to spawning redds).

**1.5.5** The Department will, based on the mixing zone request submitted with the NOI, make a determination as to whether a 500-foot mixing zone is appropriate at the proposed discharge location for an advertent Drilling Fluids (001), Gravel Pit Dewater (003), and Excavation Dewatering (004).

**1.5.6** The Department will, based on the applicant's submittal, make a determination of whether the discharge or disposal is appropriate for authorization under this Permit or would require application for an individual APDES permit or different authorization under AS 46.03.100 per Section 1.3 or 1.4.

**1.5.7** Upon completion of the NOI/NOD review, the Department will do one of the following:

**1.5.7.1** Prepare and transmit a written authorization of coverage specifying:

1.5.7.1.1 The general area of coverage, a list of authorized outfalls (discharge or disposal numbers), and any other conditions necessary to comply with this Permit, and

1.5.7.1.2 Whether a regulatory mixing zone is authorized for specific discharges.

**1.5.7.2** Notify the applicant of required revisions to the NOI/NOD submittal; or

**1.5.7.3** Deny coverage under this Permit and require an applicant to submit an individual permit application.

## 1.6 Notification Requirements

**1.6.1** Notification must be made at least 90 days prior to discharge or disposal from new facilities during first year of operations and at least 45 days prior to discharge or disposal for revising existing authorizations.

**1.6.2** Existing Permittees: Existing permittees with an existing authorization or permit (i.e., AK0050563 – Alyeska Pipeline Services Company) must reapply by submitting an NOI/NOD within 90 days of the effective date of this Permit.

**1.6.3** A permittee wishing to continue coverage under a reissued permit must submit a new NOI/NOD at least 30 days prior to the expiration of this Permit, as described in Appendix A, Part 1.3.

**1.6.4** The NOI/NOD shall be signed by the owner, or other signatory authority, in accordance with Appendix A, Part 1.12 (Signature Requirements), and a copy must be retained on site in accordance with Appendix A, Part 1.11 (Monitoring and Records).

**1.6.5** Applicant must submit NOI/NODs to the Department at the address in Appendix A, Section 1.1.1.

**1.6.6** Termination of Outfalls in Existing Authorizations: Specific outfalls in existing authorizations may be terminated by submitting a certified notice of termination (NOT) to DEC within 45 days of the requested termination date. The permittee must certify in the NOT that the requirements for terminating the outfalls have been met (See Attachment 3). If the request to terminate is associated with an NOI/NOD to revise and existing authorization, the NOT should be submitted with NOI/NOD. The permittee must continue to monitor and report for outfalls until they are terminated.

**1.6.7** Termination of Authorizations: An existing authorization may be terminated by submitting a certified NOT form to DEC that demonstrates the requirements for termination have been met (See Attachment 3 – NOT Form).

**1.6.8** Termination is effective upon receiving written notification from the Department.

### 1.7 Permit Expiration

This Permit will expire at midnight on **[insert date]**.

## 2.0 LIMITS AND MONITORING REQUIREMENTS

### 2.1 Requirements for all Discharges or Disposals

**2.1.1** During the effective period of this Permit, the permittee is authorized to discharge or dispose pollutants within the area of coverage set forth in Sections 1.1.1 and 1.1.2, respectively, in accordance with the limits and conditions set forth herein.

**2.1.2** This Permit authorizes the discharge of only those pollutants resulting from waste streams, and operations that have been clearly identified the NOI and this Permit and issued a written authorization by the Department.

**2.1.3** When applying effluent limits to commingled discharges, the more stringent effluent limits apply to the commingled discharge. If a commingled waste stream is not authorized per Section 2.1.2, then the commingled discharge is not authorized.

**2.1.4** The permittee must collect all effluent samples from the effluent stream of each discharge or disposal after the last treatment unit prior to discharge into the receiving waters or disposal to land, except as otherwise required by discharge/disposal-specific sections of this Permit.

**2.1.5** All discharges, whether alone or in combination, must not make the water unfit or unsafe; cause a film, sheen, or discoloration on the water surface or adjoining shoreline; cause leaching of toxic or deleterious substance, or cause a sludge, solid, or emulsion to be deposited beneath or upon the water surface, water column, on the bottom, or adjoining shoreline.

**2.1.6** The permittee must comply with the effluent limits in this Permit at all times unless otherwise indicated, regardless of the frequency of monitoring or reporting required by other provisions of this Permit.

**2.1.7** If requested, the permittee must provide DEC with a sample of any waste stream in the manner specified by DEC as soon as practicable after the request.

## 2.2 Effluent Limitations and Monitoring Requirements Drilling Fluids and Drill Cuttings (Discharge 001)

**2.2.1** The inadvertent discharge of drilling fluids and drill cuttings is authorized from HDD activities if a mixing zone has been authorized.

**2.2.1.1** Class A2 and A3 drilling fluids require a DFP to be submitted with the NOI.

**2.2.1.2** Class A3 drilling fluids requires the results of a metals analysis of stock barite to be submitted with the NOI.

**2.2.2** In addition to requirements in Section 2.1, the permittee must comply with the following effluent limitations and monitoring requirements.

**Table 3: Effluent Limitations and Monitoring Requirements for Drilling Fluids and Drill Cuttings (Discharge 001).**

| Parameter (Units) | Effluent Limits | Monitoring Requirements | | |
|---|---|---|---|---|
| | | Frequency | Location | Sample Type |
| Flow Volume[1] (gpd) | Report | Daily | Effluent | 24-hour Estimate |
| Turbidity (NTU) | Report | Daily | Upgradient [2] | Grab |
| Turbidity (NTU) Mixing Zone | 5 NTU above ambient [3] | Daily | Downstream | Grab |
| Oil and Grease Visual [4] | No Discharge | Daily | Fluid System | Grab |
| Oil and Grease Visual [5] | No Discharge | Daily | Receiving Water | Visual |

Notes:
1. Monitor volume of drilling fluids lost during an inadvertent release daily while discharge occurs. Report maximum daily volume loss on the DMR. Report total volume lost in the end of drilling report.
2. Upstream monitoring provides ambient turbidity measurement for compliance calculations.
3. If mixing is authorized, turbidity may not exceed 5 NTU above ambient conditions 500 feet downstream of the discharge when the ambient turbidity is 50 NTU or less. When the ambient condition is greater than 50 NTU, effluent shall not to exceed more than a 10 % increase up to a maximum increase of 15 NTU. For lake waters, turbidity may not exceed 5 NTUs above ambient turbidity. Report effluent turbidity on DMR for information only.
4. Static Sheen Test per EPA Method 1617.
5. Observed daily while inadvertent release occurs. Maintain daily log and provide to DEC upon request and submit in annual report per Section 3.3.

**2.2.2.1** End of Drilling Report: In addition to submitting monthly DMRs, at the conclusion of the HDD, the Permittee must submit an annual report summarizing the field activities and any discharges of inadvertent releases (See Section 3.3). The annual report must include the total volume of fluids and additives that were used and the amount lost to the formation or receiving water. If an inadvertent release occurred, submit in the annual report a copy of the daily field log, summary of agency communications, and mitigations measures taken.

If an HDD Program is delayed, provide a notice on by the report due date that project has been extende`d and the final report will be pending upon completion of the HDD at a later time. If the HDD is not completed, the Permittee must submit a report for the period prior to terminating the Program.

**2.2.2.2** Specific BMPs: The permittee must develop and implement specific BMPs that reduce, or eliminate the volume of inadvertently released drilling fluids and drill cuttings. The BMPs must address methods of reducing the release in order to comply with the 500 foot mixing zone, if authorized. In addition, the BMPs must include agency notification procedures, mitigation measures, instream monitoring, or other procedures to maintain compliance with this Permit and protect the environment. If a DFP is required, the DFP may include sections that comply with the BMP and QAPP requirements.

## 2.3 Effluent Limitations and Monitoring Requirements Domestic Wastewater (Discharge 002)

**2.3.1** In addition to the restrictions set out in Section 2.1, the permittee must comply with the following effluent limitations and monitoring requirements.

**Table 4: Effluent Limits and Monitoring Requirements for Domestic Wastewater (Discharge 002)**

| Parameter (Units) | Effluent Limits | | Monitoring Requirements | | |
|---|---|---|---|---|---|
| | AML | MDL | Frequency | Location | Sample Type |
| Flow Rate (gallons per day (gpd)) | Report | Report | daily | Effluent | Measure |
| pH [1] (Standard Units (SU)) | 6.5 - 8.5 | | 1/week | Effluent | Grab |
| Total Residual Chlorine (TRC) [2] (micrograms per liter (µg/L)) | 11 | 19 | 1/week | Effluent | Grab |
| Five-day Biochemical Oxygen Demand ($BOD_5$) (milligram per liter (mg/L)) | 30 | 60 | 1/month | Effluent | Grab |
| Total Suspended Solids (TSS) (mg/L) | 30 | 60 | 1/month | Effluent | Grab |
| Fecal Coliform Bacteria (FC) [3, 4] (FC Count per 100 milliliters (#/100ml)) | 20 | 40 | 1/month | Effluent | Grab |
| Escherichia coli Bacteria (E. coli) (#/100ml) | Report | | 1/quarter | Effluent | Grab |

Notes:
1. The effluent limit for pH shall be between 6.5 and 8.5. Report maximum and minimum for each month.
2. Monitoring for chlorine is not required if chlorine is not used as a disinfectant or introduced elsewhere in the treatment process. The TRC limit is measured immediately prior to discharge. The method detection limit for TRC is 100 µg/L (using approved EPA analytical methods) and will be used as the compliance level for TRC.
3. All effluent FC bacteria average results must be reported as the geometric mean. When calculating the geometric mean, replace all results of zero, 0, with a one. The geometric mean of "n" quantities is the "$n^{th}$" root of the quantities. For example the geometric mean of FC bacteria results of 10, 20, and 30 is $(10 \times 20 \times 30)^{1/3} = 18.2$.
4. Compliance with FC bacteria MDL using multiple samples is by demonstrating the calculated $90^{th}$ percentile of the samples is less than or equal to 40 FC #/100ml.

**2.3.1.1** E. coli is water quality criteria anticipated to be promulgated during the next Permit cycle. E. coli reporting is required to collect information that may be used during the next reissuance.

**2.3.1.2** Compliance with the MDL for FC bacteria may be determined using a calculated 90th percentile of a dataset using spreadsheet equations (e.g., "=percentile.inc[array,k]") or hand calculations methods. The method must be included in the QAPP and described in a cover letter submitted to the Department for the affected DMR.

## 2.4 Effluent Limitations and Monitoring Requirements Gravel Pit Dewatering (Discharge 003)

**2.4.1** In addition to the restrictions set out in Section 2.1, the permittee must comply with the following effluent limitations and monitoring requirements.

**Table 5: Effluent Limits and Monitoring Requirements for Gravel Pit Dewatering (Discharge 003)**

| Parameter (Units) | Effluent Limits | Monitoring Requirements | | |
|---|---|---|---|---|
| | | Frequency | Location | Sample Type |
| Flow Volume [1](gpd) | Report | Daily | Effluent | Estimate or Measured |
| pH [2] (S.U.) | 6.5 - 8.5 | Daily | Effluent | Grab |
| Settleable Solids (SS) [3] milliliter per liter (mL/L))) | 0.2 | Daily | Effluent | Grab |
| Turbidity (Nephelomtric Turbidity Units (NTU)) | Report | Daily | Upgradient [4] | Grab |
| Turbidity (NTU) No Mixing Zone | 5 NTU above ambient [5] | Daily | Effluent | Grab |
| Turbidity (NTU) Mixing Zone | 5 NTU above ambient [6] | Daily | Downgradient | Grab |
| Oil and Grease Visual [7] | No Discharge | Daily | Effluent | Visual |
| Total Aromatic Hydrocarbons (TAH) [8] (µg/L) | Report | Once per event | Effluent | Grab |
| Total Aqueous Hydrocarbons (TAqH) [8] (µg/L) | Report | Once per event | Effluent | Grab |

Notes:

1. Record daily flow measurements, or estimates, in daily log. Report daily maximum for the month on the DMR and total monthly volumes in the comments section.
2. The effluent limit for pH shall be between 6.5 and 8.5. Report maximum and minimum for each month.
3. As measured using Imhoff Cone.
4. If measurement of upgradient and downgradient receiving water turbidity is not possible, then turbidity limits are not applicable. Report "Not Applicable" (N/A) for all turbidity measurements and provide comment as to why receiving water turbidity measurement is not possible.
5. If mixing is not authorized, effluent turbidity may not exceed 5 NTU above ambient conditions when the ambient turbidity is 50 NTU or less. When the ambient condition is greater than 50 NTU, effluent shall not to exceed more than a 10 % increase up to a maximum increase of 15 NTU. For lake waters, turbidity may not exceed 5 NTUs above ambient turbidity. Report downgradient turbidity on DMR for information only.
6. If mixing is authorized, turbidity may not exceed 5 NTU above ambient conditions 500 feet downstream of the discharge when the ambient turbidity is 50 NTU or less. When the ambient condition is greater than 50 NTU, effluent shall not to exceed more than a 10 % increase up to a maximum increase of 15 NTU. For lake waters, turbidity may not exceed 5 NTUs above ambient turbidity. Report effluent turbidity on DMR for information only.
7. Observed daily while discharging. Maintain daily log and provide to DEC upon request.
8. An observation of a sheen triggers monitoring for TAH and TAqH. Permittee must collect one sample per event when an observation of a sheen has occurred.

**2.4.1.1** Flow Volumes: Intermittent discharges from gravel pit dewatering must be estimated or measured to determine daily flow volumes and be recorded in operating logs along with daily observations for sheen. Daily logs must be kept onsite and made available upon request by DEC.

**2.4.1.2** Specific BMPs: The permittee must develop and implement, when necessary specific BMPs to prevent sediment and erosion downstream of the discharge location. In addition, the permittee must develop specific BMPs that may be needed to ensure compliance with the 500-foot mixing zone, if authorized. Alternatively, the applicant may request an additional discharge location and mixing zone for Department consideration via revised NOI.

## 2.5 Effluent Limitations and Requirements Excavation Dewatering (Discharge 004)

**2.5.1** In addition to the restrictions set out in Section 2.1, the permittee must comply with the following effluent limitations and monitoring requirements.

**Table 6: Effluent Limits and Monitoring Requirements for Excavation Dewatering (Discharge 004)**

| Parameter (Units) | Effluent Limits | Monitoring Requirements | | |
|---|---|---|---|---|
| | | Frequency | Location | Sample Type |
| Flow Volume [1] (gpd) | Report | Daily | Effluent | Estimate or Measured |
| pH [2] (S.U.) | 6.5 - 8.5 | Daily | Effluent | Grab |
| SS [3] (mL/L) | 0.2 | Daily | Effluent | Grab |
| Turbidity (NTU) | Report | Daily | Upgradient [4] | Grab |
| Turbidity (NTU) No Mixing Zone | 5 NTU above ambient [5] | Daily | Effluent | Grab |
| Turbidity (NTU) Mixing Zone | 5 NTU above ambient [6] | Daily | Downgradient | Grab |
| Oil and Grease Visual [7] | No Discharge | Daily | Effluent | Visual |
| TAH [8] (µg/L) | Report | Once per event | Effluent | Grab |
| TAqH [8] (µg/L) | Report | Once per event | Effluent | Grab |

Notes:

1. Record daily flow measurements, or estimates, in daily log. Report daily maximum for the month on the DMR and total monthly volumes in the comments section.
2. The effluent limit for pH shall be between 6.5 and 8.5. Report maximum and minimum for each month.
3. As measured using Imhoff Cone.
4. If measurement of upgradient and downgradient receiving water turbidity is not possible, then turbidity limits are not applicable. Report "Not Applicable" (N/A) for all turbidity measurements and provide comment as to why receiving water turbidity measurement is not possible.
5. If a mixing is not authorized, effluent turbidity may not exceed 5 NTU above ambient conditions when the ambient turbidity is 50 NTU or less. When the ambient condition is greater than 50 NTU, effluent shall not to exceed more than a 10 % increase up to a maximum increase of 15 NTU. For lake waters, turbidity may not exceed 5 NTUs above ambient turbidity. Report downgradient turbidity on DMR for information only.
6. If mixing is authorized, turbidity may not exceed 5 NTU above ambient conditions 500 feet downstream of the discharge when the ambient turbidity is 50 NTU or less. When the ambient condition is greater than 50 NTU, effluent shall not to exceed more than a 10 % increase up to a maximum increase of 15 NTU. For lake waters, turbidity may not exceed 5 NTUs above ambient turbidity. Report effluent turbidity on DMR for information only.
7. Observed daily while discharging. Maintain daily log and provide to DEC upon request.
8. An observation of a sheen triggers monitoring for TAH and TAqH. Permittee must collect one sample per event when an observation of a sheen has occurred.

**2.5.1.1** Flow Volumes: Intermittent discharges or disposals from excavation dewatering must be estimated or measured to determine daily flow volumes and be recorded in operating logs along with daily observations for sheen. Daily logs must be kept onsite and made available upon request by DEC.

**2.5.1.2** Specific BMPs: The permittee must develop and implement, when necessary specific BMPs to prevent sediment and erosion downstream of the discharge location. In addition, the permittee must develop specific BMPs that may be needed to ensure compliance with the 500-foot mixing zone, if authorized. Alternatively, an additional discharge location and mixing zone may be requested via revised NOI for Department consideration.

## 2.6 Effluent Limitations and Requirements Hydrostatic Test Water (Discharge 005)

**2.6.1** In addition to the restrictions set out in Section 2.1, the permittee must comply with the following effluent limitations and monitoring requirements.

**Table 7: Effluent Limitations and Requirements for Hydrostatic Test Water (Discharge 005)**

| Parameter (Units) | Effluent Limits | Monitoring Requirements | | |
|---|---|---|---|---|
| | | Frequency | Location | Sample Type |
| Flow Volumes [1] (gpd) | Report | Daily | Effluent | Estimate or Measured |
| pH [2] (S.U.) | 6.5 - 8.5 | Daily | Effluent | Grab |
| SS [3] (mL/L) | 0.2 | Daily | Effluent | Grab |
| Turbidity (NTU) | Report | Daily | Upgradient [4] | Grab |
| Turbidity (NTU) No Mixing Zone | 5 NTU above ambient [5] | Daily | Effluent | Grab |
| Oil and Grease Visual [6] | No Discharge | Daily | Effluent | Visual |
| TAH [7] (µg/L) New or Non-hydrocarbon | Report | Once per event | Effluent | Grab |
| TAqH [7] (µg/L) New or Non-hydrocarbon | Report | Once per event | Effluent | Grab |
| TAH [8] (µg/L) Existing Hydrocarbon | 10 | Per Discharge | Effluent | Grab or Composite |
| TAqH [8] (µg/L) Existing Hydrocarbon | 15 | Per Discharge | Effluent | Grab or Composite |

Notes:

1. Record daily flow measurements, or estimates, in daily log. Report daily maximum for the month on the DMR and total monthly volumes in the comments section.
2. The effluent limit for pH shall be between 6.5 and 8.5. Report maximum and minimum for each month.
3. As measured using Imhoff Cone.
4. If measurement of upgradient receiving water turbidity is not possible, then turbidity limits are not applicable. Report "Not Applicable" (N/A) for all turbidity measurements and provide comment as to why receiving water turbidity measurement is not possible.
5. Effluent turbidity may not exceed 5 NTU above ambient conditions when the ambient turbidity is 50 NTU or less. When the ambient condition is greater than 50 NTU, effluent shall not to exceed more than a 10 % increase up to a maximum increase of 15 NTU. For lake waters, turbidity may not exceed 5 NTUs above ambient turbidity.
6. Observed daily while discharging. Maintain daily log and provide to DEC upon request.
7. Water from new oil and gas or non-oil and gas infrastructure is not anticipated to have dissolved hydrocarbons. However, an observation of a sheen triggers monitoring for TAH and TAqH. Permittee must collect one representative sample per event when an observation of a sheen has occurred.
8. Existing infrastructure that has known to been in contact with petroleum is anticipated to have dissolved hydrocarbons. Permittee may collect a single representative grab sample for volumes less than or equal to 500,000 gallons. Permittees discharging greater than must collect a composite sample of 8 grab samples collected at equal intervals during the discharge event as described in the QAPP.

**2.6.1.1** Flow Volumes: Discharges or disposal of hydrostatic test water must be estimated or measured to determine daily flow volumes and be recorded in operating logs along with daily observations for sheen. Daily logs must be kept onsite and made available upon request by DEC.

**2.6.1.2** Specific BMPs: The permittee must develop and implement, when necessary, specific BMPs to prevent sediment and erosion downstream of the discharge location. In addition, the permittee must develop BMPs to address procedures in the event of observing a sheen in the discharge.

**2.6.1.3** The use of biocides or antifreeze in hydrostatic test water is prohibited.

## 2.7 Effluent Limitations and Monitoring Requirements Mobile Spill Response (Discharge 007)

**2.7.1** Discharge or disposal of mobile spill response requires use of an approved treatment procedure or system (e.g., scrubber unit). The applicant must submit treatment processes or system information that demonstrates adequate removal of dissolved hydrocarbons to the Department. The system may be approved and adopted in the BMP Toolkit along with other BMPs that ensure the system is properly operated and maintained to sustain treatment performance.

**2.7.2** In addition to the restrictions set out in Section 2.1, the permittee must comply with the following effluent limitations and monitoring requirements.

**Table 8: Effluent Limitations and Monitoring Requirements for Mobile Spill Response (Discharge 007)**

| Parameter | Effluent Limits | Monitoring Requirements | | |
|---|---|---|---|---|
| | | Monitoring Frequency | Monitoring Location | Sample Type |
| Volume [1] (gpd) | Report | Daily | Effluent | 24-hour Estimate |
| Oil and Grease Visual[2] | No Discharge | Daily | Effluent | Visual |

Notes:
1. The Permittee must track discharges greater than 25 gallons and report total volumes on monthly DMRs.
2. A visual observation for sheen must be conducted daily when discharging.

**2.7.2.1** Flow Volume: The permittee must monitor discharges or disposals for sheens and estimate and record disposal volumes and record in an operation log located at the disposal location. However, the permittee need only estimate and report on individual discharge or disposal volumes greater than 25 gallons. The permittee must provide the operating log to DEC upon request.

**2.7.2.2** Specific BMPs: The permittee must develop and implement, when necessary specific BMPs to prevent sediment and erosion downstream of the discharge location. In addition, the permittee must develop BMPs to address cessation of discharge and corrective actions, operation, and maintenance of treatment system in the event of an observed sheen.

## 2.8 Effluent Limitations and Monitoring Requirements Secondary Containment (Discharge 008)

**2.8.1** In addition to the restrictions set out in Section 2.1, the permittee must comply with the following effluent limitations and monitoring requirements.

**Table 9: Effluent Limitations and Monitoring Requirements for Secondary Containment (Discharge 008)**

| Parameter | Effluent Limits | Monitoring Requirements | | |
|---|---|---|---|---|
| | | Frequency | Location | Sample Type |
| Flow Volume [1] (gpd) | Report | Continuous | Effluent | Estimated or Measure |
| pH [2] (S.U.) | 6.5 to 8.5 | Once Per Event | Effluent | Grab |
| Oil and Grease Visual [3] | No Discharge | Daily | Effluent | Visual |
| TAH [4] (µg/L) | 10 | Once Per Event | Effluent | Grab |
| TAqH [4] (µg/L) | 15 | Once Per Event | Effluent | Grab |

Notes:
1. Flow rates and volumes may be measured or estimated and must reported in a daily log. Report daily maximum for the month on the DMR and total monthly volumes in the comments section.
2. The effluent limit for pH shall be between 6.5 and 8.5. Report maximum and minimum for each month.
3. Observed daily while discharging. Maintain daily log and provide to DEC upon request.
4. An observation of a sheen triggers limits for TAH and TAqH. Permittee must collect one representative sample per event when an observation of a sheen has occurred.

**2.8.1.1** Flow Volume: Discharges of secondary containment water must be estimated or measured to determine daily flow volumes and be recorded in operating logs along with daily observations for sheen. Daily logs must be kept onsite and made available upon request by DEC.

**2.8.1.2** Specific BMPs: The permittee must develop and implement, when necessary specific BMPs to prevent sediment and erosion downstream of the discharge location. In addition, the permittee must develop BMPs to address procedures in the event of observing a sheen in the discharge.

## 2.9 Land Disposal Limitations and Monitoring Requirements

**2.9.1** In addition to the restrictions set out in Section 2.1, the permittee must comply with the following effluent limitations and monitoring requirements.

**Table 10: Disposal Limitations and Monitoring Requirements Gravel Pit Dewatering (003), Excavation Dewatering (004), Hydrostatic Testing (005), and Mobile Spill Response (007)**

| Parameter (Units) | Effluent Limits | Monitoring Requirements | | |
|---|---|---|---|---|
| | | Frequency | Location | Sample Type |
| Flow Volume [1] (gpd) | Report | Daily | Effluent | Estimate or Measured |
| Oil and Grease Visual | No Discharge | Daily | Effluent | Visual |

Notes:
1. Flow rates and volumes may be measured or estimated and must be reported in a daily log. Report daily maximum for each month and total monthly volumes for each disposal location to DEC per Section 2.11.1.9.

**2.9.1.1** Flow Volume: The permittee must measure, or estimate, disposal volumes for Gravel Pit Dewatering, Excavation Dewatering, Hydrostatic Test Water, and Mobile Spill response and record volumes and observations for sheen in an operation log maintained at the disposal location. For Mobile Spill Response, only disposal batches greater than 25 gallons need to be tracked. The permittee must submit annual reports that include daily maximums for each month and total monthly volumes for each disposal location per Section2.11.1.9.

**2.9.1.2** Sediment and Erosion Control: The permittee must observe for sediment and erosion at the disposal area each day while disposing and implement sediment and erosion BMPs as necessary per Section 3.4.4.3. The permittee must include observations of sediment and erosion in daily logs and include these logs in the annual report required in Section 2.11.1.9, including BMPs implemented to control sediment and erosion.

**2.9.1.3** Daily Logs and Automatic Authorizations: Daily logs are required for all disposals. For disposals less than 500,000 gpd where automatic authorization is claimed, the first page of the daily log must self-identify that the automatic authorization is in effect and that disposals equal to or greater than 500,000 trigger cessation of disposal activities until an authorization has been issued by DEC. The daily log must be kept at the disposal location and made available upon request.

## 2.10 Monitoring Requirements

**2.10.1** Test procedures used for sample analysis shall conform to methods cited in 18 AAC 70.020(c), as amended. The permittee may substitute alternative methods of monitoring or analysis upon receipt of prior written approval from the Department.

**2.10.2** The permittee shall use current calibrated equipment when taking field measurements and shall use bottles and sampling procedures provided by a laboratory when taking samples for laboratory analysis.

**2.10.3** Samples and measurements shall be representative of the volume and nature of the monitored discharge.

**2.10.4** Additional monitoring parameters and increased monitoring frequency may be required by the Department on a case-by-case basis.

**2.10.5** If the permittee monitors any influent, effluent, or surface water characteristic identified in this Permit more frequently than required, the results of such monitoring shall be reported to the Department in the monitoring report required under Section 2.11.1.1.

**2.10.6** Daily Records: All flow monitoring results shall be recorded daily. The permittee shall maintain records of all information resulting from any visual inspections, including documentation of visual observation(s) of floating solids, foam, garbage, and oily sheen for the life of the authorization.

## 2.11 Reporting of Monitoring Requirements

### 2.11.1 Discharge Monitoring Reports

**2.11.1.1** Monitoring required in Section 2.0 Table 3 through Table 9 (Discharges 001 through 008, except discharge 006) shall be summarized each month on the DEC DMR Form to be provided with the permittees authorization or a Department-approved equivalent that provides the same information in a similar format.

**2.11.1.2** This Permit requires the Permittee to submit DMRs required in Section 2.11.1.1 even for months when discharges do not occur. The Permittee must submit a DMR with the box checked indicating no discharge has occurred.

**2.11.1.3** The submitted DMR must be postmarked, faxed, e-mailed, or signed electronically by the 28$^{th}$ day of the following calendar month to DEC at the address in Appendix A, Part 1.1.2.

**2.11.1.4** Upon Department implementation, the Permittee is responsible for electronically submitting DMRs and other reports in accordance with 40 CFR § 127. The start dates for e-reporting are provided in 40 CFR § 127.16. DEC has established a website at http://dec.alaska.gov/water/Compliance/EReportingRule.htm that contains general information.

**2.11.1.5** The permittee must sign and certify all DMRs, reports, and other submittals in accordance with signatory requirements in Section 1.12 of Appendix A – Standard Conditions.

**2.11.1.6** For all effluent monitoring, with the exception of total residual chlorine, the permittee must use EPA-approved methods under 40 CFR Part 136, adopted by reference at 18 AAC 83.010(f), that can achieve a method detection limit less than the effluent limit. For a parameter without an effluent limit in this Permit, the permittee must use the most sensitive method detection limit from an EPA-approved analytical test method necessary for compliance monitoring. The permittee must use an EPA-approved test method for total residual chlorine monitoring, but in this Permit, sample concentrations below the method detection limit of the EPA-approved method used or 0.1 mg/L, whichever is lower, will be considered the compliance limit.

**2.11.1.7** For purposes of reporting on the DMR for a single sample, if a value is less than the method detection limit, the permittee must report “less than [numeric value of the method detection limit],” and if a value is less than a minimum level (ML) ,the permittee must report “less than [numeric value of ML].”

**2.11.1.8** For purposes of calculating a monthly average, zero (0) may be assigned for a value less than the method detection limit, and [numeric value of the method detection limit] may be assigned for a value between the method detection limit and the ML. If the average value is less than the method detection limit, the permittee must report "less than [numeric value of the method detection limit]," and if the average value is less than the ML, the permittee must report "less than [numeric value of ML]." If a value is equal to or greater than the ML, the permittee must report and use the actual value. The resulting average value must be compared to the compliance level, ML, in assessing compliance.

**2.11.1.9** For all disposals whether or not they are less than (<) 500,000-gallons for Gravel Pit Dewatering (003), Excavation Dewatering (004), and Hydrostatic Test Water (005), the permittee must submit an annual report documenting disposal volumes, locations, and documentation demonstrating the disposal was to upland areas (e.g., site plans or wetland delineation maps) by January 31st of the following year. Annual disposal reports are not applicable to 40 CFR § 127 and must be submitted either electronically via email or mail per Appendix A, Part 1.1.2.

**2.11.1.10** For Construction Storm Water, the permittee must submit an annual certification that the SWPPP is being revised and implemented per Section 3.5.1.

**2.11.1.11** For Operational Storm Water, the permittee must submit an annual certification that the SWPPP is being reviewed and revised, if needed, and implemented per Section 3.6.2. In addition, the permittee must submit certification that the semi-annual SWPPP inspection was conducted per Section 3.6.2.

## 2.12 Mixing Zone and Modification of Effluent Limits

**2.12.1** Per 18 AAC 70.240, as amended through June 23, 2003, a regulatory mixing zone may be authorized for turbidity and residues in the following discharges:

**2.12.1.1** Drilling Fluids and Drill Cuttings (Discharge 001)

**2.12.1.2** Gravel Pit Dewatering (Discharge 003)

**2.12.1.3** Excavation Dewatering (Discharge 004)

**2.12.2** The Department will review the NOI information and authorize a standard size 500-foot long regulatory mixing zone beginning from the point of discharge for parameters listed in Section 2.12.2.2

**2.12.2.1** The Department will authorize a regulatory mixing zone if the proposed discharges listed in the NOI are consistent with conditions in this Permit.

**2.12.2.2** Within an authorized regulatory mixing zone, the Department will authorize exceedances of the water quality criteria for turbidity and residues.

**2.12.3** The written authorization from the Department will specify authorized discharges and the parameters for which water quality criteria may be exceeded within an authorized regulatory mixing zone.

**2.12.4** If the Department determines that a regulatory mixing zone is not appropriate to protect and maintain existing uses of the waterbody outside of an authorized mixing zone, a permittee may submit additional information to supplement the NOI or may submit an individual permit application Form 1, Form 2C, and Form 2M.

# 3.0 SPECIAL CONDITIONS

## 3.1 Quality Assurance Project Plan

**3.1.1** The permittee must develop a QAPP for all monitoring required by this Permit. A certification that the QAPP has been developed and available for implementation must be submitted with the NOI/NOD for first time applicants.

**3.1.2** The QAPP must be designed to assist in planning for the collection and analysis of effluent and receiving water samples in support of the GP and in explaining data anomalies when they occur.

**3.1.3** To support the specific requirements of the Permit, the QAPP must include procedures to conduct composite sampling for large hydrostatic test water discharges and methods of calculation the 90$^{th}$ percentile of FC bacteria samples to comply with the MDL.

**3.1.4** Throughout all sample collection and analysis activities, the permittee must use the EPA-approved quality assurance/quality control and chain-of-custody procedures described in *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 which is specified in these documents.

**3.1.5** The permittee must amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP.

**3.1.6** The permittee must report if modifications were made to the QAPP and regardless of modification submit a certification statement annually.

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

## 3.2 Drilling Fluids Plan

**3.2.1** Applicability: A DFP will be required for HDD using class A2 and A3 Fluids as verified by the Department when reviewing the NOI per Section 1.5.1.6. The primary distinction between Class A2 and Class A3 fluids is A3 uses barite as a weighting agent. The following sections apply developing a DFP for either a Class A2 or Class A3 drilling fluids. At a minimum, the DFP must include the following information:

**3.2.1.1** Specific to each HDD Program and drilling fluid type, provide a list including commercial product names, descriptions of the products, and the maximum proposed discharge concentrations for each product and chemical additive. Concentrations must be commonly stated in appropriate terms (e.g., lb/bbl, gal/bbl, % (wt), or % v/v (% volume oil per volume drilling fluid). Each drilling fluid or additive system must be clearly labeled with respect to drilling fluid type (e.g., KCl/polymer drilling fluid, freshwater lignosulfonate drilling fluid). Components of the basic drilling fluid must be listed separately from specialty or contingency chemical additives which may be used.

**3.2.1.2** A record of the operator's determination of how discharge of drilling fluids and drill cuttings is expected to comply with the 500,000 ppm SPP toxicity classification threshold. Operator's determination must be based upon, but not limited to, the following criteria:

- Estimate of worst-case cumulative discharge toxicity based on additive toxicity estimations or commercially calculated discharge toxicity estimations;
- Description of how overall toxicity is minimized, where possible.

**3.2.1.3** A clearly stated procedure for determining whether or not a chemical additive not originally planned for or included in toxicity estimations may be used and discharged, and

**3.2.1.4** An outline of the drilling fluid planning process which must be consistent with other general permit requirements. Names and titles of personnel responsible for the drilling fluid planning process must be included in the drilling fluid plan.

**3.2.1.5** For Type A3 Drilling Fluids, the DFP must also include tests on stock barite using EPA Method 200.7 for cadmium and EPA Method 245.5 or 7471 for mercury. To be considered Type A3 Drilling Fluid, results must be included in DFP indicating concentrations for Cadmium (Cd) ≤ 3 mg/kg, and for Mercury (Hg) ≤ 1mg/kg

## 3.3 End of HDD Reports

In addition to submitting monthly DMRs, the Permittee is responsible reporting additional information to DEC at the conclusion of the HDD Program at a given location. The report is due January 31st of the year following HDD completion. If the HDD Program has been extended, the permittee must still report annually to the extent that the final report is pending HDD completion. If the HDD Program is terminated, the permittee must report information up to the time of termination. The Permittee shall report the following Information:

- Beginning drill date, completion date, coordinate location for entry and exit point,
- Any modifications to the drilling fluids system per the DFP,
- The total volumes of drilling fluid created and added downhole at each site location,
- Estimated total volumes of drilling fluids discharged to surface waters at each site location,
- The estimated fluid loss at each site (if any),
- Summary of agency communications that were initiated due to the release,
- Any control measures used to reduce or eliminate the release,
- Any mitigation measures taken to eliminate or reduce adverse environmental impacts,
- Any unusual observations reported to DEC, and

- Any supplemental information requested by DEC during the project to be included.

## 3.4 BMP Plan and Implementation of a BMP Toolkit

A permittee must develop a BMP Plan which achieves the objectives and specific requirements outlined in Sections 3.4.1. The BMP Plan for industrial activities shall be located at the permitted facility and made available for Department review upon request. A qualified person must amend the BMP Plan whenever there is a change in the facility or in the operation of the facility that materially increases the generation of pollutants, their release, or potential release to the receiving waters. Changes to the BMP Plan shall be consistent with the objectives and specific BMP requirement as described in Permit Section 3.4.2. Facility and Environmental managers must review all changes to the BMP Plan. Permittees must conduct an annual review and a certification statement must be submitted to the Department as outlined in Section 3.4.2.4. The following sections describe the BMP Plan objectives (3.4.1 through 3.4.4).

### **3.4.1** BMP Plan General Requirements and Objectives

**3.4.1.1** A BMP Plan is required to be submitted with the first NOI for retention in Permit files. The permittee must develop and implement a BMP Plan which achieves the objectives and the specific BMP requirements listed in Section 3.4.3. Any existing BMP plans may be modified under this section. If a BMP Plan requires revision, the BMP Plan shall be ready to implement prior to the initiation of discharge. The permittee will certify in subsequent NOIs if the BMP Plan is ready to implement when the NOI is submitted.

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

**3.4.1.3** Through implementation of the BMP Plan, the permittee must prevent or minimize the generation and potential for the release of pollutants to the waters of the U.S. and groundwater in Alaska through normal and ancillary activities.

**3.4.1.4** BMP Plans must ensure that methods of pollution prevention, control, and treatment will be applied to all wastes and other substances discharged. The number and quantity of pollutants of effluent generated, discharged, or potentially discharged by the facility must be minimized by the permittee to the extent feasible by managing each waste stream in the most appropriate manner.

3.4.1.4.1 Each facility component or system must be examined for waste minimization opportunities and potential for causing a release of significant amounts of pollutants to waters of the United States, or groundwater in Alaska, due to equipment failure, improper operation, or natural phenomena, such as rain or snowfall, 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.

3.4.1.4.2 Under the BMP Plan and any Standard Operating Procedures included in the BMP Plan, the permittee must ensure proper operation and maintenance of water management and wastewater treatment systems. BMP Plan elements must be developed in accordance with good engineering practices.

3.4.1.4.3 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.

**3.4.2** BMP Plan Modifications

**3.4.2.1** The permittee must amend the BMP Plan whenever it is found to be ineffective in achieving the general objective of preventing and minimizing the generation and the potential for the release of pollutants to waters of the U.S. and/or the specific BMP requirements of Section 3.4.3.7.

**3.4.2.2** Changes in the BMP Plan must be reported to DEC with the annual certification required under Section 3.4.2.4.

**3.4.2.3** The BMP Plan must be reviewed annually by the permittee and the permittee chosen BMP Committee.

**3.4.2.4** The permittee must submit annually a certification that the above reviews have been completed and that 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 Plan submittal.

**3.4.3** BMP Plan Content

**3.4.3.1** The BMP Plan should be consistent with the general guidance contained in *Guidance Manual for Developing Best Management Practices* (EPA 833-B-93-004, October 1993) or any subsequent revision. The BMP Plan must include, at a minimum, the following items:

**3.4.3.2** 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.

**3.4.3.3** Structure, functions, and procedures of the BMP Committee. The BMP Plan must establish a BMP Committee chosen by the permittee responsible for developing, revising, implementing, and maintaining the BMP Plan.

**3.4.3.4** Current copies of this Permit, the signed and certified NOI submitted to DEC, and copies of authorization letters from DEC.

**3.4.3.5** Description of potential pollutant sources, including, but not limited to:

- Potential to result in a limit or water quality criteria exceedance,
- Risk identification and assessment, and
- Materials compatibility.

**3.4.3.6** Description, location, and sequence of activities, BMP control measures (i.e., BMP Toolkit components used), and Final constructed site plans, drawings, and maps.

**3.4.3.7** Description of any corrective action taken at the facility, including the event that caused the need for corrective action (include notice of non-compliance if reporting was required) and dates when problems were discovered and modifications occurred.

**3.4.3.8** A log of BMP Plan modifications which documents maintenance and repairs of control measures, including date(s) of regular maintenance, date(s) of discovery of areas in need of repair/maintenance, and date(s) that the control measure(s) returned to full function

**3.4.3.9** Standard Operating Procedures that include, but are not limited to:

- Good housekeeping;
- Inspections;
- Preventative maintenance and repair;
- Security;
- Employee training records and date(s) training was received;
- Record keeping and reporting;
- Use of local containment devices such as liners, dikes and drip pans where chemicals are being unpackaged and where wastes are being stored and transferred; and
- Apply chemical cleaning compounds and disinfectants in accordance with manufacturer instructions and suggested application rates.

### 3.4.4 Specific BMPs

The BMP Plans must establish specific BMPs or other measures to help achieve the compliance with this Permit for various discharges and disposals, which ensure that the following specific requirements are met.

**3.4.4.1 BMPs for Mixing Zones**

In order to ensure compliance with the 500-foot mixing zone for turbidity and residue, the Permittee shall develop BMP Plans to ensure water quality criteria for turbidity is not exceeded at the boundary of the mixing zone.

**3.4.4.2 BMPs for Hydrocarbon Removal**

Permittee must observe discharges and disposals for sheen and review the DEC Contaminated Sites Program Database to determine if contamination may be encountered within 1,500 feet of an excavation that requires dewatering authorization under this Permit. The permittee must develop and implement BMP tools to help ensure compliance with Permit limits for situations where hydrocarbon contamination is encountered. The BMP tools may include treatment procedures or systems that have been submitted to the Department prior to adopting as BMP Toolkit component.

**3.4.4.3 BMPs for Sediment and Erosion Control**

All high-volume or high-velocity discharges and disposals should have BMPs for erosion and sediment control. BMP Plans should discuss how install energy dissipation devices at the

point of discharge/disposal as well as controlling sediment accumulation (i.e., 1/8 inch) that could adversely impact sensitive vegetation areas. Accordingly, this Permit emphasizes that sediment and erosion control BMPs be used broadly. Specific BMPs developed for sediment and erosion controls may be developed using appropriate components of guidance referenced in Section 3.5.

## 3.5 Construction Storm Water (006)

Permittees, or Co-permittees, authorized to discharge storm water, or allowable non-storm water, from construction or maintenance activities that disturb one acre or more are required to identify and control pollutant sources associated with the construction of pipelines and the ancillary pipeline facilities that disturbs one acre or more. Coverage for Construction Storm Water (Discharge 006) requires that the applicant develop and implement a SWPPP, which assesses site specific conditions, sources of sediment and other pollutants, and establishes BMPs to prevent, or minimize to the extent practicable, pollutants from being discharged in storm water. A SWPPP shall be developed in general accordance with the most current version of *Developing Your Stormwater Pollution Prevention Plan – A Guide for Industrial Operators (February 2009, EPA 833-B-09-002).* For Alaska-specific requirements, refer to the *Alaska Storm Water Guide.* http://dec.alaska.gov/water/wnpspc/stormwater/Guidance.html.

**3.5.1** Certifications: The SWPPP must be signed and certified per Appendix A, Section 1.12. An applicant must submit the initial SWPPP with the NOI for DEC files. Thereafter, the permittee must submit an annual certification to DEC that the SWPPP has been revised and implementing according this Section.

**3.5.2** Site Descriptions: The SWPPP must describe specific conditions of the project including (1) the amount, frequency, duration, and seasonal occurrence of rainfall; (2) site conditions such as soils, topography, drainage patterns, and vegetation; and (3) receiving waters, such as impaired waters or waters listed in the ADF&G Anadromous Waters Catalog. The SWPPP must also describe the nature of the construction activity, including, but not limited to:

- The function of the project (e.g., large spread winter construction);
- A general location map able to identify the location of the activity and the waters of the U. S. within one mile of the project;
- Site maps that clearly delineate the area that will be disturbed and important environmental features (e.g., wetlands, spawning areas, water intakes, etc.);
- Identification of all potential sources of pollutants that may reasonably affect the quality of storm water discharges from the construction site. This includes description of related industrial activities such as pipe coating facilities or temporary concrete batch plants;
- The intended significant activities, presented sequentially, that disturb soil over major portions of the site (e.g., grubbing, excavation, grading); and
- Estimates of the total area of the site that is expected to be disturbed by excavation, grading, or other activities including off-site borrow/fill areas. It may be preferable to separately describe portions of the site as they are disturbed at different stages of the construction process.

**3.5.3** Control Measures: Based on site-specific information and identification of sources of pollution, the SWPPP must indicate and describe the control measures to be implemented including, but not limited to:

- The type of sediment and erosion control measure, location, duration (temporary or permanent), and construction sequence (specific dates are not necessary); and
- When available and appropriate, the manufacturer's specifications for installation and maintenance of the appropriate control measures.

**3.5.4** Good Housekeeping Procedures: The SWPPP must describe procedures that prevent the discharge of pollutants from earth moving activities and ancillary activities associated with the project. These procedures are generally associated with storage and handling of materials such as construction waste, fuels and solvents, and other potential storm water contaminants. Typical good housekeeping procedures include, but are not limited to:

- Washing of Equipment and Vehicles and Wheel Wash-Down,
- Fueling and Maintenance Areas,
- Staging and Material Storage Areas,
- Washout of Applicators/Containers used for Paint, Concrete, and Other Materials,
- Fertilizer or Pesticide Use, and
- Storage, Handling, and Disposal of Construction Waste.

**3.5.5** Spill Prevention and Response Procedures: In the event that good housekeeping procedures do not prevent a release, specific spill prevention and response procedures must be included in the SWPPP for material storage and handling including, but not limited to:

- Labeling containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides," etc.)
- Expeditiously stopping, containing, and cleaning up spills, leaks, and
- Other contaminant releases.

The permittee must notify appropriate facility personnel, emergency response agencies, and regulatory agencies when a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity has been observed (See Standard Conditions, Appendix A).

**3.5.6** Stabilization and Seasonal Shutdowns: The SWPPP must include a description of temporary and permanent stabilization practices for the site, including a schedule of when the practices will be implemented. The SWPPP must document shutdown and startup activities for projects that are not completed during the winter or summer construction season. The SWPPP must also document (1) the anticipated dates of fall freeze-up and spring thaw, (2) activities leading up to and at fall freeze-up, (3) activities leading up to and at spring thaw, and (4) activities to reestablish control measures prior to and immediately after spring thaw and fall freeze up.

**3.5.7** SWPPP Modifications: The permittee must update the SWPPP within seven calendar days in response to any following triggering conditions:

- Changes to construction control measures, good housekeeping measures, or other activities that render the exiting SWPPP obsolete,
- An inspection or investigation reveal changes are necessary to comply with this Permit, or

- Changes made in response to corrective actions, or maintenance procedures.

**3.5.8** SWPPP Documentation

**3.5.8.1** SWPPP Posting: A notice of Permit authorization and SWPPP must be posted conspicuously near the main entrance of the site or at local public building such as the town hall or public library if posting at the entrance is infeasible. For linear projects, the notice must be posted at a publicly accessible location near the active part of the construction project (e.g., where a pipeline project crosses a public road). The SWPPP notice must include the following information:

- A copy of the completed NOI as submitted to DEC;
- Current contact person and phone number for scheduling times to view the SWPPP, and
- The current location of the SWPPP.

**3.5.8.2** Related Documents: The following related documents must be kept with the SWPPP:

- Current copies of the Pipeline GP, the signed and certified NOI submitted to DEC, copies of DEC authorization letters;
- A log of SWPPP modifications;
- Description, location, and sequence of earthwork activities, control measures, and stabilization measures;
- Date(s) when earthwork activities occur, construction activities, begin and temporarily or permanently cease, and when stabilization are initiated on a portion of the site;
- Documentation of maintenance and repairs of control measures, including date(s) of regular maintenance, date(s) of discovery of areas in need of repair/maintenance, and date(s) that the control measure(s) returned to full function;
- Manufacture Information (i.e. Material Safety Data Sheet, manufacturer and/or supplier test results, or installation instructions);
- Description of any corrective action taken, including the triggering event or corrective action and dates when problems were discovered and modifications occurred;
- Records of employee training, including the date(s) training was received; and
- Copies of inspection reports, non-compliance, certifications, monitoring reports, or end of construction season reports.

**3.5.8.3** SWPPP Availability: A copy of the SWPPP must be kept at the facility or the construction site from the date of project initiation to the date of final stabilization. A Permittee with day-to-day operational control over the plan's implementation must keep a copy of the plan readily available whenever on site (a centrally located construction trailer or truck accessible by all on-site personnel is sufficient). If an on-site location is unavailable to store the SWPPP when no personnel are present, notice of the plan's location must be posted at the main entrance sign at the construction site. Regardless, a copy of the SWPPP must be readily available for inspection during normal business hours.

A Permittee must make a copy of the SWPPP and documentation available to DEC upon request, for review or copying, during any on-site inspection. Electronic storage of documents can be used so long as they are accessible when a DEC inspector conducts an onsite

inspection. The SWPPP must identify any alternative off-site location for available access if there is a seasonal shut down for a multi-season project. The SWPPP must be returned to the site once the shutdown is over.

The Permittee must provide a copy of the SWPPP to each subcontractor on-site. If a member of the public requests a copy of the SWPPP, they must first contact DEC.

**3.5.9** Corrective Actions:

**3.5.9.1** Triggers: The permittee must review and revise the selection, redesign, reinstall, and implement other corrective actions or control measures when the following conditions have been discovered or reported by other entities and substantiated:

- Spills or unauthorized discharges;
- Control measures not designed, installed, or maintained correctly;
- Control measures are observed to not meet Permit requirements or water quality criteria (See 2.1.5); or
- Sediment or residues (See Definitions) have accumulated at locations that could lead to impacts to control measures, storm water conveyance infrastructure (e.g., storm water inlets and outlets), or equipment tracking on roads or paved areas.

**3.5.9.2** Communication: The permittee must provide written notification to all affected subcontractors within three (3) days of taking the corrective action.

**3.5.9.3** SWPPP Modifications: The permittee must revise its SWPPP within seven calendar days to reflect the new maintenance procedures and include documentation of the corrective action to return to full compliance. The permittee must maintain a log showing the dates of all SWPPP modifications, including name of the person authorizing each change and a brief summary.

**3.5.9.4** Schedules: Whenever corrective actions impact other parties, the permittee must notify them within three days. For conditions that can be readily corrected (e.g., removing tracked sediment on roadways), the permittee must take corrective actions as soon as practicable within 24 hours of discovery. For revising selection, redesigning, or repairing control measures, the permittee must complete the corrective action within seven days. If the corrective action has a nexus with other similar control measures or conditions on the project, the permittee must make corrections to subsequently affective controls or conditions prior to the next storm or snowmelt event, or as soon as practicable afterwards.

**3.5.9.5** Continuation of Inspections: Normally schedule inspections must continue from the time the need for corrective actions have been identified until completed.

**3.5.9.6** Corrective Action Log: The permittee must maintain a log of corrective actions that includes the date the problem was discovered or reported, the corrective action(s) taken or the basis for why one was not taken, the date the corrective action was completed, and whether the corrective action resulted in a revision to the SWPPP.

**3.5.10** Inspections

**3.5.10.1** Frequency: The Permittee must inspect designated areas on a schedule, frequency and timing based on the mean annual precipitation (MAP) for the location per Table 11:

**Table 11: Frequency of Construction SWPPP Inspections**

| MAP (inches) | Period (Days) | Frequency/Timing |
|---|---|---|
| ≤ 40 | 14 | Once within period and 24 hours after storm or snowmelt event. |
| > 40 | 7 | Once per period but twice per period if there is precipitation each of the seven days[1] |
| Note [1]: Pre-storm walk-throughs count as one inspection. | | |

**3.5.10.2** Representative Inspections: For linear construction projects (e.g., pipeline construction) inspections may be performed and applied to other representative locations and controls. The qualified personnel may inspect controls along the construction site for 0.25 mile above and below each access point where a roadway, undisturbed right-of-way, or other similar feature intersects the construction site and allows access to the areas above and below that point. The conditions of the controls along each inspected 0.25-mile segment may be considered as representative of the condition of controls along that reach extending from the end of the 0.25-mile segment to either the end of the next 0.25-mile inspected segment or to the end of the project, whichever occurs first.

**3.5.10.3** Inspection Reports: The Permittee is required to retain with the SWPPP a record of each inspection for at least three years from the date that Permit coverage expires or is terminated. The report must also identify any actions taken per the inspection requirements and identify any triggering conditions that requires corrective action.

## 3.6 Additional Requirements for Operational Storm Water (006)

Permit requirements for Operational SWPPPs are the same for Construction SWPPPs 3.5.1 through 3.5.9. The additional, or complementary, requirements for Operational SWPPPs are as follows:

**3.6.1** If a facility is authorized to discharge only operational storm water, the Operational SWPPP satisfies the BMP Plan requirements in Section 3.4. Because the SWPPP may also satisfy BMP Plan requirements and need to modify Operational SWPPPs is likely infrequent, this Permit requires annual review of the SWPPPs to ensure minor changes or modifications to controls are adopted. The permittee must apply BMP Section 3.4 to Operational SWPPPs and submit an annual certification that the review committee has reviewed and revised the SWPPP, if necessary.

**3.6.2** This Permit requires semi-annual storm water inspections at each facility with one inspection conducted prior to breakup to assess whether there are any areas which may contribute pollutants to the storm water discharge and the second inspection conducted after breakup. Semi-annual inspections must be retained for three years and a certification that the inspections were conducted at each facility must be submitted to the Department annually with the SWPPP certification.

# Appendix A

## Standard Conditions

# TABLE OF CONTENTS

**1.0 Standard Conditions Applicable to All Permits ..... A-1**

1.1 Contact Information and Addresses ..... A-1
1.2 Duty to Comply ..... A-1
1.3 Duty to Reapply ..... A-2
1.4 Need to Halt or Reduce Activity Not a Defense ..... A-2
1.5 Duty to Mitigate ..... A-2
1.6 Proper Operation and Maintenance ..... A-2
1.7 Permit Actions ..... A-2
1.8 Property Rights ..... A-2
1.9 Duty to Provide Information ..... A-2
1.10 Inspection and Entry ..... A-3
1.11 Monitoring and Records ..... A-3
1.12 Signature Requirement and Penalties ..... A-4
1.13 Proprietary or Confidential Information ..... A-5
1.14 Oil and Hazardous Substance Liability ..... A-5
1.15 Cultural and Paleontological Resources ..... A-6
1.16 Fee ..... A-6
1.17 Other Legal Obligations ..... A-6

**2.0 Special Reporting Obligations ..... A-6**

2.1 Planned Changes ..... A-6
2.2 Anticipated Noncompliance ..... A-6
2.3 Transfers ..... A-7
2.4 Compliance Schedules ..... A-7
2.5 Corrective Information ..... A-7
2.6 Bypass of Treatment Facilities ..... A-7
2.7 Upset Conditions ..... A-8
2.8 Existing Manufacturing, Commercial, Mining, and Silvicultural Discharges ..... A-8

**3.0 Monitoring, Recording, and Reporting Requirements ..... A-9**

3.1 Representative Sampling ..... A-9
3.2 Reporting of Monitoring Results ..... A-9
3.3 Additional Monitoring by Permittee ..... A-9
3.4 Twenty-four Hour Reporting ..... A-9
3.5 Other Noncompliance Reporting ..... A-10

**4.0 Penalties for Violations of Permit Conditions ..... A-11**

4.1 Civil Action ..... A-11
4.2 Injunctive Relief ..... A-11
4.3 Criminal Action ..... A-11
4.4 Other Fines ..... A-12

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**

# Appendix B

## Acronyms

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

| | |
|---|---|
| 7Q10 | Seven-day Low Flow Based on a 10-year Return Period |
| 18 AAC 15 | Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 15: Administrative Procedures |
| 18 AAC 60 | Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 60: Solid Waste Management |
| 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 |
| ADNR | Alaska Department of Natural Resources |
| AK LNG | Alaska Liquefied Natural Gas |
| AML | Average Monthly Limit |
| APDES | Alaska Pollutant Discharge Elimination System |
| APSC | Alaska Pipeline Service Company |
| AS | Alaska Statutes |
| AS 46.03 | Alaska Statutes Title 46, Chapter 03: Environmental Conservation. Available at http://www.legis.state.ak.us/default.htm |
| ASAP | Alaska Stand Alone Pipeline |
| $BOD_5$ | Biochemical Oxygen Demand, 5-day |

| | |
|---|---|
| BMP | Best Management Practice |
| BPJ | Best Professional Judgment |
| BPT | Best Practicable Control Technology (currently available) |
| CFR | Code of Federal Regulations |
| CIPL | Cook Inlet Pipe Line Company |
| CWA | Clean Water Act |
| DEC | Alaska Department of Environmental Conservation |
| DFP | Drilling Fluids Plan |
| DMR | Discharge Monitoring Report |
| DRT | Drift River Terminal |
| EFH | Essential Fish Habitat |
| ELG | Effluent Limit Guidelines |
| ETC | Effluent Toxicity Characterization |
| EMP | Environmental Monitoring Program |
| EPA | U.S. Environmental Protection Agency |
| ESA | Endangered Species Act |
| EPA | Environmental Protection Agency |
| FNSB | Fairbanks North Slope Borough |
| FC | Fecal Coliform Bacteria |
| GP | General Permit |
| GPD or gpd | Gallons per day |
| GPM or gpm | Gallons per minute |
| HDD | Horizontal Directional Drilling |
| IGU | Interior Gas Utility |

| | |
|---|---|
| IP | Individual Permit |
| KLU | Kitchen Lights Unit Gas Production Platform A |
| MDL | Maximum Daily Limit |
| mg/L | Milligrams per Liter |
| MSB | Matanuska-Susitna Borough |
| MSGP | Multi-Sector General Permit |
| MZ | Mixing Zone |
| NMFS | National Marine Fisheries Service |
| NOD | Notice of Disposal |
| NOI | Notice of Intent |
| NPDES | National Pollutant Discharge Elimination System |
| NTU | Nephelometric Turbidity Unit |
| O&G | Oil and Grease |
| O&M | Operations and Maintenance |
| POC | Pollutant of Concern |
| O&M | Operations and Maintenance |
| POTW | Publicly Owned Treatment Works |
| PS | Pump Station |
| RCRA | Resource Conservation and Recovery Act |
| SCA | Secondary Containment Area |
| SPP | Suspended Particulate Phase |
| SU | Standard Units |
| SWPPP | Storm Water Pollution Prevention Plan |
| TAH | Total Aromatic Hydrocarbons |

| | |
|---|---|
| TAPS | Trans – Alaska Pipeline System |
| TAqH | Total Aqueous Hydrocarbons |
| TMDL | Total Maximum Daily Load |
| TRC | Total Residual Chlorine |
| TSS | Total Suspended Solids |
| U.S. | United States |
| U.S.C. | United States Code |
| USFWS | United States Fish & Wildlife Service |
| UV | Ultraviolet |
| VMT | Valdez Marine Terminal |
| WDAP | Wastewater Discharge Authorization Program |
| WQS | Water Quality Standards |
| ZOD | Zone of Deposit |

# Appendix C

## Definitions

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 |
| Allowable Non-Storm Water Discharges | Fire fighting flows, fire water storage vessel and fire hydrant flushing discharges, including periodic fire suppression test discharges, and fire training discharges; Waters used to wash vehicles where detergents are not used; Water used for dust control; Potable water sources including uncontaminated waterline flushes and drinking fountain water; Landscape watering and irrigation drainage used on occasion for re-vegetation projects; Routine external building, pipeline, and power line wash down that does not use detergent or other compounds; Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids; Uncontaminated, non-turbid discharges springs or groundwater; Uncontaminated foundation or footing drains; and Electrical insulator steaming; Other uncontaminated discharges meeting water quality criteria that the Department approves on a case-by-case basis. |
| 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 Limit[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). |
| Best Management | 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 |

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

| | |
|---|---|
| Practices (BMPs)[a] | 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. |
| 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). |
| Bypass[a] | Means the intentional diversion of waste streams from any portion of a treatment facility |
| 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 |
| 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. |

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

| | |
|---|---|
| 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. |
| Department[a] | Means the Alaska Department of Environmental Conservation |
| Design Flow[a] | Means the wastewater flow rate that the plant was designed to handle. Typically the maximum monthly flow rate for the treatment system. |
| 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. |
| Disposal | Means the deposit, injection, dumping, spilling, leaking, or placing of waste into or on any land so that such waste, or any constituent thereof, may enter the land or ground waters. |
| 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. |

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

Drilling Fluids — Means circulating fluid (mud) used in the rotary drilling of boreholes to clean and condition the hole and to counterbalance formation pressure.

Drilling Fluids, Category A — Type A drilling fluids are fluid systems that are used for HDD applications that are similar to drilling fluids used in oil and gas exploration and development drilling (Category B)but have limitations on chemical additives and Sediment Particulate Phase (SPP) toxicity. The following table describes the classification system used for permitting Category A drilling fluids:

| | **Category Name**<br>**96hr LC50 SPP Value (ppm)** | **A1**<br>**>750,000** | **A2**<br>**>500,000** | **A3**<br>**>500,000** |
|---|---|---|---|---|
| **Characteristics** | Number of Ingredients[1] | ≤2 | >2 | >2 |
| | Barite Allowed | ○ | ○ | ● |
| | Base Fluid (Fresh Water (FW) / Sea Water (SW)/ Synthetic (S) | FW | FW | FW |
| **Application Requirements** | Estimate (E) / Analyze (A) SPP 96hr LC50 | E[2] | E[2] | A |
| | Drilling Fluid Plan (DFP) | ○ | ● | ● |
| | Total Recoverable Metals Analysis [3] | ○ | ○ | ● |
| | Chemical Inventory Report | ○ | ● | ● |

NOTES:

1. Base Fluids listed above are not included as an ingredient.
2. If estimate does not meet SPP requirement, a follow-up SPP Analysis may be used to verify actual SPP.
3. Applicants using Barite must batch test stock for total recoverable metals using cadmium and mercury as surrogate parameters. Analysis should be conducted using EPA Method 200.7 for cadmium and EPA Method 245.5 or 7471 for mercury. To be considered Type A3 Drilling Fluid, results must be included in DFP indicating concentrations for Cadmium (Cd) ≤ 3 mg/kg, and for Mercury (Hg) ≤ 1mg/kg.

**Key**

○ No

● Yes

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

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

| | |
|---|---|
| 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. |
| 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° + 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° + 0.2°C in an M-FC broth. |
| 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 waste stream that when discharged will cause a film or sheen upon or a discoloration of the surface of the receiving water. |
| Geometric Mean | The geometric mean is the $N^{th}$ 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: $\sqrt[4]{12x23x34x990} = 55$. |
| 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 |
| Horizontal Direction Drilling | Drilling for the purpose of installing an underground pipeline or conduit using a rotary drill bit that can affect the direction of the drilling path near horizontal. For the purpose of this Permit, Horizontal Direction Drilling also includes vertical drilling using drilling fluids, except brines, for conducting geotechnical investigations. |

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

| | |
|---|---|
| Hydrostatic Test Water | Means water used for pressure testing to verifies leaks are not present in pipelines and tanks as well as contained water associated with valve vault discharges, basement discharges, non-hydrocarbon bearing lines, water tanks, ancillary pipelines related to oil and gas facilities, and utilidor discharges. |
| Influent | Means untreated wastewater before it enters the first treatment process of a wastewater treatment works |
| Maximum Daily Limit[a] | Means the highest allowable "daily discharge" |
| 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 |
| Mobile Spill Response Discharge | Means discharges associated with treated snowmelt, rain, or other water that has come into contact with hydrocarbons such as motor oil, diesel, gasoline, transmission, hydraulic oil from small leaks that are collected from motorized vehicles and equipment. Other sources include, but may not be limited to, drip pan water and shop melt water. Only water impacted by petroleum hydrocarbons is considered under mobile spill response discharge and a treatment system must be used that is capable of removing free-phase and dissolved-phase hydrocarbons from the wastewater. |
| Month | Means the time period from the 1st of a calendar month to the last day in the month |

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

| | |
|---|---|
| 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 |
| North Slope Borough | Means the NSB encompasses the entire northern coast and most of the northeastern coast of Alaska along the Arctic Ocean and contains approximately 89,000 sq. miles of land and 5,900 sq. miles of water. The southern boundary runs in an east - west direction at 68° North latitude, about 105 miles north of the Arctic Circle, which is at latitude 66° 30' North. The NSB extends east to the border with Canada, west to the Chukchi Sea, and north to the Beaufort Sea. |
| New Facility | Means a facility that has not operated in the area specified in the Notice of intent (NOI) prior to the submission of the NOI. |
| 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. |
| 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 |

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

| | |
|---|---|
| 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<br><br>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. |
| Secondary Containment Discharge | Discharges of uncontaminated precipitation or snow melt water that has accumulated in the diked areas around hydrocarbon tanks, tank farms, fuel transfer stations and tanker truck loading racks which provide an emergency storage area and help to prevent accidental spills from reaching the environment or Waters of the U.S. These areas are typically constructed of steel, synthetic liners or synthetic lines with a layer of gravel on top to protect the liner and |

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

| | |
|---|---|
| | are required by 40 CFR 112 – Oil Pollution Prevention or 18 AAC 75 – Oil and Other Hazardous Substances Pollution Control, Article 1. |
| Severe Property Damage[a] | Means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. |
| Sheen[b] | Means an iridescent appearance on the water surface |
| Shellfish[b] | Means a species of crustacean, mollusk, or other aquatic invertebrate with a shell or shell-like exoskeleton in any stage of its life cycle |
| Significant Pipelines | A significant pipeline means a main pipeline or a pipeline that has considerably long segments between branches or serves to deliver oil or gas to a community or service. Any pipeline that is being constructed using horizontal directional drilling beneath a waterbody would also be considered significant. In contrast, an insignificant pipeline would be associated with short segments or downstream distribution networks. |
| Static Sheen Test | A test intended to indicate the presence of free oil when drilling fluid and drilled cuttings, are discharged to surface waters where surface water observations along may be insufficient to determine the presence of free oil. |
| Total Suspended Solids (TSS)[g] | Means a measure of the filterable solids present in a sample, as determined by the method specified in 40 CFR Part 136 |
| Twice per year | Means two time periods during the calendar year: October through April and May through September |
| Upset[a] | Means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. |

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

| | |
|---|---|
| Wastewater Treatment | Means any process to which wastewater is subjected in order to remove or alter its objectionable constituents and make it suitable for subsequent use or acceptable for discharge to the environment |
| Waters of the United States or Waters of the U.S. | Has the meaning given in 18 AAC 83.990(77) |
| Water Recreation[b] | See contact recreation or secondary recreation |
| Water Supply[b] | Means any of the waters of the United States that are designated in 18 AAC 70 to be protected for fresh water or marine water uses. Water supply includes waters used for drinking, culinary, food processing, agricultural, aquacultural, seafood processing, and industrial purposes. Water supply does not necessarily mean that water in a waterbody that is protected as a supply for the uses listed in this paragraph is safe to drink in its natural state. |
| Week | Means the time period of Sunday through Saturday |

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

**ATTACHMENT 1 NOTICE OF INTENT AND MIXING ZONE REQUEST FORMS**

# Attachment 1

## Notice of Intent

## and

## Mixing Zone Request Form

# NOTICE OF INTENT (NOI) / NOTICE OF DISPOSAL

## General Permit AKG320000 – Statewide Oil and Gas Pipelines

Please submit this NOI to:

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

Submittal of this document constitutes notice that the party identified in Section 3 intends to be covered by the Alaska Pollutant Discharge Elimination System (APDES) General Permit AKG320000 – Statewide Oil and Gas Pipelines (Permit). The Permit authorizes discharges into waters of the United States and disposals to land resulting from construction, operation, and maintenance activities for pipelines and related facilities. The term notice of intent (NOI) refers to an application to discharge to water and the term Notice of Disposal (NOD) refers to an application to dispose wastewater to land. Please provide all information below and attach supplemental information sheets as appropriate.

## SECTION 1 – PERMIT INFORMATION

☐New Applicant
☐Existing Permitee Authorization No.:
☐Revision – An existing authorization that requires updates to include new discharges, or new discharge locations (e.g., phased large Plan of Development).
☐Renewal – An existing authorization that is requested to be administratively extended upon expiration of the GP.

## SECTION 2 – PIPELINE INFORMATION

Provide pipeline information and define individual pipeline segments for permit authorizations in the fields below. Pipelines may be divided into several project / management segment areas or a single segment for the entire pipeline right-of-way. Pipeline milepost (MP) zero (0) should start from the source of oil or gas (e.g., Gas Treatment Plant) and the terminating milepost should be the end destination (e.g., Liquefied Natural Gas Facility). Check only one box next to the Segment this NOI/NOD request is for.

If this NOI/NOD is submitted to revise or renew an existing authorization, skip to Section 4.

Pipeline Name:
☐ Operation/ Maintenance
☐ Construction

**Coordinates at MP 0:**
Latitude:
Longitude:
Coordinate Source:

**Terminating Coordinates:**
Latitude:
Longitude:

| Defined Segments | | Start MP | End MP |
|---|---|---|---|
| ☐ | Segment 1 | 000.00 | |
| ☐ | Segment 2 | | |
| ☐ | Segment 3 | | |
| ☐ | Segment 4 | | |
| ☐ | Segment 5 | | |
| ☐ | Segment 6 | | |
| ☐ | Segment 7 | | |
| ☐ | Segment 8 | | |

## SECTION 3 – RESPONSIBLE PARTY INFORMATION

Person responsible for overall management of the project.

| | | | | |
|---|---|---|---|---|
| First Name: | Last Name: | Title: | | |
| Company: | Phone: | Fax: | | |
| E-mail Address: | | | | |
| Mailing Address: | | | | |
| City: | | | State: | Zip: |

## SECTION 4 – ON-SITE CONTACT/OPERATOR INFORMATION

☐Check if same as Responsible Party and skip to Section 7

| | | | | |
|---|---|---|---|---|
| First Name: | Last Name: | Title: | | |
| Company: | Phone: | Fax: | | |
| E-mail Address: | | | | |
| Mailing Address: | | | | |
| City: | | | State: | Zip: |

## SECTION 5 – NEGOTIATED FEE CONTACT

☐Check if same as Responsible Party and skip to Section 7

| | | | | |
|---|---|---|---|---|
| First Name: | Last Name: | Title: | | |
| Company: | Phone: | Fax: | | |
| E-mail Address: | | | | |
| Mailing Address: | | | | |
| City: | | | State: | Zip: |

## SECTION 6 – BILLING INFORMATION

☐Check if same as Responsible Party and skip to Section 7

| | | | | |
|---|---|---|---|---|
| First Name: | Last Name: | Title: | | |
| Company: | Phone: | Fax: | | |
| E-mail Address: | | | | |
| Mailing Address: | | | | |
| City: | | | State: | Zip: |

## SECTION 7 – SUMMARY OF DISCHARGES AND DISPOSALS

Complete the table below which summarizes the number of discharges, mixing zones, and disposals requested. Summary Table must match Section 8 and 9 attachments.

| Discharges or Disposals Requested | How Many Disposal Outfalls to Land? [1,2] | How many Discharge Outfalls to Water? [1,2] | How many Outfalls will require a Mixing Zone? [3] |
|---|---|---|---|
| ☐ 001 Drilling Fluids and Drill Cuttings [4] | N/A | | |
| ☐ 002 Domestic Wastewater | N/A | | N/A |
| ☐ 003 Gravel Pit Dewatering [4] | | | |
| ☐ 004 Excavation Dewatering [4] | | | |
| ☐ 005 Hydrostatic Test Water | | | N/A |
| ☐ 006 Storm Water - Construction | N/A | | N/A |
| ☐ 006 Storm Water - Operation | N/A | | N/A |
| ☐ 007 Mobile Spill Response | | | N/A |
| ☐ 008 Secondary Containment | N/A | | N/A |

NOTES:

1. Applications for Disposals to land < 500,000 gpd may not be required. See Permit Section 1.1.3.
2. Complete the appropriate outfall forms for each disposal to land and discharge to water and attach under Section 8.
3. Complete the AKG320000 Mixing Zone Attachment for each requested mixing zone and attach under Section 9.
4. If HDD or dewatering activities are within 1,500 feet of a contaminated site listed as active, clean-up complete, institutional controls, or contaminated groundwater plume contact DEC Contaminated Sites Program (CSP) and check this box. ☐ CSP contacted

## SECTION 8 – OUTFALL DETAILS

Complete and attach AKG320000 – Outfall Forms 001 - 008 for discharges and disposals requested as a part of this NOI.

## SECTION 9 – MIXING ZONE REQUESTS

Complete and attach AKG320000 - Mixing Zone Form for every mixing zone requested as a part of this NOI.

## SECTION 10 – OTHER ATTACHMENTS

List additional attachments below. Examples include other Reports or Plans that are not specifically required but support the NOI (e.g., FERC Sediment and Erosion Control Plan).

## SECTION 11 – CERTIFICATION

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.

| Signature | Title |
|---|---|
| Printed Name | Date |

FILE NUMBER_____(for DEC use)

# NOI SECTION 8 ATTACHMENT

## General Permit AKG320000 – Statewide Oil and Gas Pipelines

## DISCHARGE 001 – DRILLING FLUIDS AND DRILL CUTTINGS

**PROJECT INFORMATION** (Same as SECTION 3)

| | | |
|---|---|---|
| First Name: | Last Name: | Title: |
| Company: | Phone: | Fax: |
| E-mail Address: | | |
| Mailing Address: | | |
| City: | State: | Zip: |
| Pipeline Name (NOI Section 2): | Segment No. (NOI Section 2): | |

**CHECKLIST – ADDITIONAL NOI REQUIREMENTS**

| | | |
|---|---|---|
| Project Vicinity Map, Site Plan, and Plan and Profile | ☐ Included | Submit a vicinity map (topographic map or aerial photograph) showing the general location of all HDD activities included in NOI. Include detailed Site Plans showing drilling sites, receiving waters, and proposed equipment locations. Provide a plan and profile drawing of the proposed HDD that includes pertinent geological and hydrogeological information. |
| Project Description (for Type A1 Fluids) | ☐ Included | A description of the method of drilling method, equipment technology used to minimize or eliminate discharges (i.e., HDD, recirculating), typical design schematics, and BMP measures taken to minimize the quantity of the water discharged and meet permit requirements. Project Descriptions for A2 and A3 are included in the DFP. See Fact Sheet Section 3.1. |
| SPP Data (for Type A1 Fluids) | ☐ Included<br>☐ N/A | Describe drilling fluid additive that will be used (i.e., bentonite) and include 96hr $LC_{50}$ SPP data or analysis results for the product. Fluid mixture data must demonstrate an SPP concentration of 750,000ppm or greater. See Fact Sheet Section 3.1. |
| Drilling Fluids Plan (for Type A2 Fluids) | ☐ Included<br>☐ N/A | Include 96hr $LC_{50}$ SPP data for each drilling fluid additive (Provide SPP analysis of the combined toxicity for the fluid mixture containing each additive at the maximum proposed concentration (See Appendix XX for equation).) All SPP results must be 500,000ppm or greater. See Fact Sheet Section 3.1. |
| Drilling Fluids Plan (for Type A3 Fluids) | ☐ Included<br>☐ N/A | Include 96hr $LC_{50}$ SPP analysis for each drilling fluid additive and combined mixture demonstrating results of 500,000ppm or greater. Provide Total Metals analysis for stock barite using surrogate metals demonstrating values less than 3 mg/kg for Cadmium and 1 mg/kg for Mercury. |
| Other Reports and Related Plans | ☐ Included | Provide copies reports, applications, and plans required by other state or federal agencies where information may support NOI (e.g., Inadvertent Release Plans). |
| AKG320000 Mixing Zone Attachment | ☐ Included<br>QTY._____ | Include one Mixing Zone Attachment for each discharge where a 500 ft mixing zone is requested for turbidity and residues associated with an inadvertent release. |

**DISCHARGE 001 – DRILLING FLUIDS AND DRILL CUTTINGS ACTIVITIES** Provide an inventory all anticipated HDD and Geotechnical Investigation sites included in your NOI application. Attach additional pages if necessary.

| | Drill Point Entry Location: | Estimated Start – End Dates | Drilling Fluid Category[1] | Mixing Zone Requested? [2] |
|---|---|---|---|---|
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | Begin _____<br>End _____ | ☐ A1<br>☐ A2<br>☐ A3 | ☐ Yes<br>☐ No |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | Begin _____<br>End _____ | ☐ A1<br>☐ A2<br>☐ A3 | ☐ Yes<br>☐ No |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | Begin _____<br>End _____ | ☐ A1<br>☐ A2<br>☐ A3 | ☐ Yes<br>☐ No |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | Begin _____<br>End _____ | ☐ A1<br>☐ A2<br>☐ A3 | ☐ Yes<br>☐ No |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | Begin _____<br>End _____ | ☐ A1<br>☐ A2<br>☐ A3 | ☐ Yes<br>☐ No |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | Begin _____<br>End _____ | ☐ A1<br>☐ A2<br>☐ A3 | ☐ Yes<br>☐ No |

NOTES:

1. See Fact Sheet Section 3.1 for Outfall 001 - Drilling Fluids and Drill Cuttings Characterization for description of drilling fluid categories.
2. Complete AKG320000 - Mixing Zone Attachment form for each discharge requested.

FILE NUMBER_____(for DEC use)

# NOI SECTION 8 ATTACHMENT

## General Permit AKG320000 – Statewide Oil and Gas Pipelines

## DISCHARGE 002 – DOMESTIC WASTEWATER

### PROJECT INFORMATION

| | | |
|---|---|---|
| First Name: | Last Name: | Title: |
| Company: | Phone: | Fax: |
| E-mail Address: | | |
| Mailing Address: | | |
| City: | State: | Zip: |
| Pipeline Name: | Segment No. (NOI Section 2): | |

### CHECKLIST – ADDITIONAL NOI REQUIREMENTS

| | | |
|---|---|---|
| Project Vicinity Map and Site Plan | ☐ Included | Submit a general vicinity map (topographic map or aerial photograph) showing the general location of all Domestic Wastewater Facilities included in NOI. Include a detailed Site Plan showing the location (latitude and longitude) of each facility including the discharge location and the expected discharge flow direction. Provide the approximate distances from the end of the pipe to any water uses (e.g., water intakes, fisheries, bathing areas, other discharges, etc.). |
| Description of Wastewater Treatment and Operation | ☐ Included | Include all makes, models, and a brief description of the treatment process(es) including the level of treatment (e.g. secondary) and type of disinfection. Describe all disposal methods for any sludge, septage, grit, screenings, and other facility residuals generated from the treatment system. Include schematic flow diagram of the wastewater treatment process. For pre-approved package treatment modules provide design flow of each module and number of modules used at the facility location. |
| DEC Plan Review | ☐ Included | Submit any DEC Plan Review and Approval to Operate for wastewater treatment system, if applicable. |
| Effluent Testing (Existing Facilities Only) | ☐ Included<br>Permit #: | If the facility is being relocated from another camp, provide previous DEC permit authorization or permit number, if applicable. Effluent testing data collected over the previous 12 months for the following parameters: pH (minimum, maximum), maximum and average flow rate, $BOD_5$, TSS, fecal coliform bacteria, and total chlorine residual or the previous 12 instances of monitoring data collected if there has not been 12 months of data for the previous year. |

## DISCHARGE 002 – DOMESTIC WASTEWATER

Provide an inventory of all anticipated domestic wastewater facilities included in your NOI application. Attach additional pages if necessary.

| | Discharge Location: | Facility Type | Approved Treatment Capacity | Peak Demand Flow Rate[1]: |
|---|---|---|---|---|
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | ☐ Stationary Facility<br>☐ Mobile Camp<br>Describe[2]: | ☐ Total Design Capacity[3]: (gpd)<br>☐ Pre-Approved Package Treatment Modules<br>Module Unit Design Capacity[4]: (gpd/unit)<br>Number of Modules Used: x (units)<br>Total Design Capacity[2]: (gpd) | (gpd) |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | ☐ Stationary Facility<br>☐ Mobile Camp<br>Describe[2]: | ☐ Total Design Capacity[3]: (gpd)<br>☐ Pre-Approved Package Treatment Modules<br>Module Unit Design Capacity[4]: (gpd/unit)<br>Number of Modules Used: x (units)<br>Total Design Capacity[2]: (gpd) | (gpd) |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | ☐ Stationary Facility<br>☐ Mobile Camp<br>Describe[2]: | ☐ Total Design Capacity[3]: (gpd)<br>☐ Pre-Approved Package Treatment Modules<br>Module Unit Design Capacity[4]: (gpd/unit)<br>Number of Modules Used: x (units)<br>Total Design Capacity[2]: (gpd) | (gpd) |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | ☐ Stationary Facility<br>☐ Mobile Camp<br>Describe[2]: | ☐ Total Design Capacity[3]: (gpd)<br>☐ Pre-Approved Package Treatment Modules<br>Module Unit Design Capacity[4]: (gpd/unit)<br>Number of Modules Used: x (units)<br>Total Design Capacity[2]: (gpd) | (gpd) |
| MP | Latitude: Longitude:<br>Coordinate Source:<br>Waterbody Name: | ☐ Stationary Facility<br>☐ Mobile Camp<br>Describe[2]: | ☐ Total Design Capacity[3]: (gpd)<br>☐ Pre-Approved Package Treatment Modules<br>Module Unit Design Capacity[4]: (gpd/unit)<br>Number of Modules Used: x (units)<br>Total Design Capacity[2]: (gpd) | (gpd) |

NOTES:

1. Peak Demand is based on maximum camp occupancy and appropriate per capita flow assumptions (typically 75 gpd/cap)
2. Describe treatment system type (e.g., wastewater type, RBC, membrane, other)
3. This is the maximum monthly average flow that will be approved for the system
4. Pre-approved package treatment modules may be used individually or used in combination to meet Peak Demand Flow Rates

FILE NUMBER_____(for DEC use)

NOI/NOD SECTION 8 ATTACHMENT

# General Permit AKG320000 - Statewide Oil and Gas Pipelines

## DISCHARGE/DISPOSAL 003 – GRAVEL PIT DEWATERING

PROJECT INFORMATION (Same as SECTION 3)

| | | |
|---|---|---|
| First Name: | Last Name: | Title: |
| Company: | Phone: | Fax: |
| E-mail Address: | | |
| Mailing Address: | | |
| City: | State: | Zip: |
| Pipeline Name (NOI Section 2): | Segment No. (NOI Section 2): | |

Note: Land Disposals of less than 500,000 gpd are automatically authorized for Gravel Pit Dewatering necessary for preexisting pipeline operations and maintenance. See Permit Section 1.1.3.

CHECKLIST – ADDITIONAL NOI REQUIREMENTS

| | | |
|---|---|---|
| Project Vicinity Map and Site Plan | ☐ Included | Submit a vicinity map (topographic map or aerial photograph) showing the general location of all gravel pit activities included in NOI/NOD. Include a detailed Site Plan showing the pit to be excavated and any treatment systems. The detailed map must show the discharge location in the receiving water or land Disposal Area. |
| Project Description | ☐ Included | A description of the method of dewatering, including typical design schematics, and measures taken to minimize the quantity of the water discharged as well as a description of the treatment and control methods that will be used to meet permit requirements. |
| DEC Plan Review | ☐ Included | If chemicals or physical treatment systems are proposed, include typical design schematics and any DEC approvals of the proposed treatment methods and disposal methods. See Fact Sheet Section 6.1.2.1. |
| Other Reports and Related Plans | ☐ Included | Provide copies reports, applications, and plans required by other state or federal agencies where information may support the NOI/NOD). |
| AKG320000 Mixing Zone Attachment | ☐ Included QTY._____ | Include one Mixing Zone Attachment for each discharge which may require a 500 ft mixing zone for turbidity and residues resulting from Gravel Pit Dewatering Discharges. |

## DISCHARGE/DISPOSAL 003 – GRAVEL PIT DEWATERING

Provide an inventory all anticipated gravel pit dewatering sites included in your NOI application. Attach additional pages if necessary.

| | Location | Effluent Destination: | Mixing Zone[1] | Flow Rate[2] | Describe Treatment[3] |
|---|---|---|---|---|---|
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd) | |

NOTES:

1. Complete AKG320000 - Mixing Zone Attachment form for each Mixing Zone requested.
2. For gravel pits with large daily discharge volumes where sediment and erosion control issues cannot be managed by BMPs, or the limits cannot be attained at the boundary of a single mixing zone, the applicant may request multiple discharge locations with separate mixing zones. In this case complete a separate section for each outfall.
3. Some chemicals and treatment or disposal methods may require a plan submittal prior to adoption in BMP Toolkit (i.e. mechanical treatment packages, flocculants, coagulants, etc.).

FILE NUMBER_____(for DEC use)

# NOI/NOD SECTION 8 ATTACHMENT

## General Permit AKG320000 - Statewide Oil and Gas Pipelines

## DISCHARGE/DISPOSAL 004 – EXCAVATION DEWATERING

**PROJECT INFORMATION** (Same as SECTION 3)

| | | |
|---|---|---|
| First Name: | Last Name: | Title: |
| Company: | Phone: | Fax: |
| E-mail Address: | | |
| Mailing Address: | | |
| City: | State: | Zip: |
| Pipeline Name (NOI Section 2): | Segment No. (NOI Section 2): | |

Note: Land Disposals of less than 500,000 gpd are automatically authorized for Excavation Dewatering necessary for preexisting pipeline O&M. See Permit Section 1.1.3.

**CHECKLIST – ADDITIONAL NOI REQUIREMENTS**

| | | |
|---|---|---|
| Project Scope Map and Site Map | ☐ Included | Submit a general site map (topographic map or aerial photograph) showing the general location of all excavation activities included in NOI. Include a detailed map showing the site to be excavated and location of sedimentation ponds, if applicable. The detailed map must show the location of the receiving water or area of land discharge. |
| Project Description | ☐ Included | A description of the method of dewatering, including typical design schematics, and measures taken to minimize the quantity of the water discharged as well as a description of the treatment and control methods that will be used to meet permit requirements. |
| DEC Plan Review | ☐ Included | A description of the method of dewatering, including typical design schematics, and submit proof of DEC Plan Review and Approvals of pretreatment methods (not required for energy depletion devices or sedimentation ponds without chemical additions). |
| Other Reports and Related Plans | ☐ Included | Provide copies reports, applications, and plans required by other state or federal agencies where information may support NOI/NOD. |
| AKG320000 Mixing Zone Attachment | ☐ Included QTY._____ | Include one Mixing Zone Attachment for each discharge which may require a 500 ft mixing zone for Turbidity and Residues resulting from Excavation dewatering discharges. |

## DISCHARGE/DISPOSAL 004 - EXCAVATION DEWATERING

Provide an inventory all anticipated excavation dewatering sites included in your NOI application. Attach additional pages if necessary.

| | Location: | Effluent Destination | Mixing Zone [1] | Flow Rate / Estimated Volume Total [2] | Describe Any Treatment [3] |
|---|---|---|---|---|---|
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd)<br>Volume: (gal) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd)<br>Volume: (gal) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd)<br>Volume: (gal) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd)<br>Volume: (gal) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land<br>☐ Discharge to Waterbody<br>Name: | ☐ Yes<br>☐ No | Max Discharge (Pump) Rate: (gpd)<br>Estimated Daily Volume: (gpd)<br>Volume: (gal) | |

NOTES:

1. Complete AKG320000 - Mixing Zone Attachment form for each Mixing Zone requested.
2. For gravel pits with large daily discharge volumes where sediment and erosion control issues cannot be managed by BMPs, or the limits cannot be attained at the boundary of a single mixing zone, the applicant may request multiple discharge locations with separate mixing zones. In this case complete a separate section for each outfall.
3. Some chemicals and treatment or disposal methods may require a plan submittal prior to adoption in BMP Toolkit (i.e. mechanical treatment packages, flocculants, coagulants, etc.).

FILE NUMBER_____(for DEC use)

# NOI/NOD SECTION 8 ATTACHMENT

## General Permit AKG320000 - Statewide Oil and Gas Pipelines

## DISCHARGE/DISPOSAL 005 – HYDROSTATIC TEST

PROJECT INFORMATION (Same as SECTION 3)

| | | |
|---|---|---|
| First Name: | Last Name: | Title: |
| Company: | Phone: | Fax: |
| E-mail Address: | | |
| Mailing Address: | | |
| City: | State: | Zip: |
| Pipeline Name (NOI Section 2): | Segment No. (NOI Section 2): | |

Note: Land Disposals of less than 500,000 gpd are automatically authorized for Hydrostatic Tests necessary for preexisting pipeline O&M. See Permit Section 1.1.3.

CHECKLIST – ADDITIONAL NOI REQUIREMENTS

| | | |
|---|---|---|
| Project Vicinity Map and Site Plan | ☐ Included | Submit a vicinity map (topographic map or aerial photograph) showing the general location of hydrostatic test activities included in NOI. Include a detailed map showing the hydrostatic test site. The detailed map must show the location of the receiving water or area of land discharge. |
| Project Description | ☐ Included | A description of hydrostatic test method, including volume estimates and measures taken to minimize the quantity of the water discharged as well as a description of the treatment and control methods that will be used to meet permit requirements. |
| DEC Plan Review | ☐ Included | If a large volume of hydrostatic test water is to be disposed to an area that will require evaluation of infiltration capacity, a plan submittal may be required. |
| Other Reports and Related Plans | ☐ Included | Provide copies reports, applications, and plans required by other state or federal agencies where information may support NOI/NOD. |

## DISCHARGE/DISPOSAL 005 - HYDROSTATIC TEST

Provide an inventory all anticipated hydrostatic test sites included in your NOI application. Attach additional pages if necessary.

| Activity Location: | | Effluent Destination | Has pipe been exposed to hydrocarbons? [3] | Flow Rate / Volume | Describe proposed treatment, if applicable. |
|---|---|---|---|---|---|
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land [1]<br>☐ Discharge to Waterbody [2]<br>Name: | ☐ Yes<br>☐ No | Max Daily: (gpd)<br>Average Mo: (gpd)<br>Volume: (gal) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land [1]<br>☐ Discharge to Waterbody [2]<br>Name: | ☐ Yes<br>☐ No | Max Daily: (gpd)<br>Average Mo: (gpd)<br>Volume: (gal) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land [1]<br>☐ Discharge to Waterbody [2]<br>Name: | ☐ Yes<br>☐ No | Max Daily: (gpd)<br>Average Mo: (gpd)<br>Volume: (gal) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land [1]<br>☐ Discharge to Waterbody [2]<br>Name: | ☐ Yes<br>☐ No | Max Daily: (gpd)<br>Average Mo: (gpd)<br>Volume: (gal) | |
| MP | Latitude:<br>Longitude:<br>Coordinate Source: | ☐ Disposal to land [1]<br>☐ Discharge to Waterbody [2]<br>Name: | ☐ Yes<br>☐ No | Max Daily: (gpd)<br>Average Mo: (gpd)<br>Volume: (gal) | |

NOTES:

1. Some chemicals with treatment and disposal to land may be approved on a case-by-case basis via a plan submittal.
2. The use of chemicals such as biocides or antifreeze are prohibited. See Permit Section 2.6.4.
3. Hydrostatic testing on new unused oil and gas pipelines are assumed to contain no hydrocarbons. A pipeline, tank, or other vessel that previously carried hydrocarbons, may be required to undergo additional monitoring prior to discharging to water to ensure limits are met (see Permit Section 2.6.1).

FILE NUMBER_____(for DEC use)

# NOI SECTION 8 ATTACHMENT

## General Permit AKG320000 - Statewide Oil and Gas Pipelines

## DISCHARGE 006 – STORM WATER/CONSTRUCTION

| PROJECT INFORMATION (Same as SECTION 3) | | | |
|---|---|---|---|
| Applicant: | | | Phone: |
| Contact Person: | | | Fax: |
| E-mail Address: | | | |
| Mailing Address: | City: | | |
| Borough or Similar Government Subdivision: | | State: AK | Zip: |
| Project name and Segment number: | | | |
| Beginning Latitude and Longitude or Mile Post: | Ending Latitude and Longitude or Mile Post: | | |

| PROJECT INFORMATION (If applicable per Fact Sheet Section 5.3.3.1) | | |
|---|---|---|
| Co-Applicant: | | Phone: |
| Contact Person: | | Fax: |
| E-mail Address: | | |
| Mailing Address: | City: | |

| CHECKLIST – ADDITIONAL NOI REQUIREMENTS | | |
|---|---|---|
| Project Scope Vicinity Map and Site Plans | ☐ Included | Submit a vicinity map (topographic map or aerial photograph) showing the general location of all construction storm water areas to be included in NOI. Include detailed site plans showing initially proposed storm water discharge locations as well as interrelated discharges for gravel pit and excavation dewatering, and hydrostatic test. The detailed site plans must show the location of receiving waters and land disposal areas that may impact, or be impacted by, storm water. |
| Initial Project SWPPP and Certification | ☐ Included | Submit initial SWPPP with the first NOI for DEC files. For revisions to existing authorizations, submit a certification that the SWPPP has been revised and is ready for implementation.. |
| Equivalent Plans Consistency Certification | ☐ Included | Per Fact Sheet Section 10.4, federally required sediment and erosion control plans (e.g., FERC Sediment and Erosion Control Plans) may be accepted as equivalent to a SWPPP if developed to be consistent with the Permit. Submit certification with the NOI that the equivalent plan is consistent with Permit requirements. |

FILE NUMBER_____(for DEC use)

# NOI SECTION 8 ATTACHMENT

## General Permit AKG320000 - Statewide Oil and Gas Pipelines

## DISCHARGE 006 – STORM WATER/OPERATION

| **PROJECT INFORMATION** (Same as SECTION 3) | | | |
|---|---|---|---|
| Applicant: | | | Phone: |
| Contact Person: | | | Fax: |
| E-mail Address: | | | |
| Mailing Address: | City: | | |
| Borough or Similar Government Subdivision: | | State: AK | Zip: |
| Project name and Segment number: | | | |
| Beginning Latitude and Longitude or Mile Post: | Ending Latitude and Longitude or Mile Post: | | |

| **FACILITY OR FACILITIES (For Multiple Facilities, See Fact Sheet Section XX)** |
|---|
| Facility Name or Multi-Facility Description: |
| Facility Location Description: |
| List of Facilities in Multi-Facility Description: |

| **CHECKLIST – ADDITIONAL NOI REQUIREMENTS** | | |
|---|---|---|
| Vicinity Map and Site Plans | ☐ Included | Submit a vicinity map (topographic map or aerial photograph) showing the general location of all facilities to be included in NOI. Include detailed individual site plans showing each facility, other facility related discharge locations, infrastructure layout, areas of potential contamination, and flow directions. To obtain multi-facility coverage, the facilities must be proximal and have an operational nexus that allows for the responsible party to implement the SWPPP per the Permit. |
| Initial SWPPP and Subsequent Certifications | ☐ Included | Submit initial SWPPP with the first NOI for DEC files. For revisions to existing authorizations, submit a certification that the SWPPP has been revised and is ready for implementation. |

FILE NUMBER_____(for DEC use)

# NOI/NOD SECTION 8 ATTACHMENT FORM

## General Permit AKG320000 - Statewide Pipeline Activities

## DISCHARGE/DISPOSAL 007 – MOBILE SPILL RESPONSE

**PROJECT INFORMATION** (Same as SECTION 3)

| | | |
|---|---|---|
| First Name: | Last Name: | Title: |
| Company: | Phone: | Fax: |
| E-mail Address: | | |
| Mailing Address: | | |
| City: | State: | Zip: |
| Pipeline Name (NOI Section 2): | Segment No. (NOI Section 2): | |

**CHECKLIST – ADDITIONAL NOI REQUIREMENTS**

Discharge/Disposal of contaminated Spill Response water requires use of an approved treatment process/system adopted in the BMP Toolkit. If the volume of treatment required is greater than 500 gpd, plan submittals may be required.

**DISCHARGE/DISPOSAL 007 – MOBILE SPILL RESPONSE**

| Effluent Destination [1] | Describe Treatment Package [2] |
|---|---|
| ☐ Disposal to land<br>☐ Discharge to Water | |

NOTES:

1. Select both options if seeking flexible permit coverage.
2. A description of the process or treatment system used to remove free-phase and dissolved phase hydrocarbons. Process/systems must be approved for use in the BMP Toolkit.

FILE NUMBER_____(for DEC use)

# NOI SECTION 8 ATTACHMENT

## General Permit AKG320000 - Statewide Pipeline Activities

## DISCHARGE 008 – SECONDARY CONTAINMENT

| PROJECT INFORMATION (Same as SECTION 3) | | |
|---|---|---|
| First Name: | Last Name: | Title: |
| Company: | Phone: | Fax: |
| E-mail Address: | | |
| Mailing Address: | | |
| City: | State: | Zip: |
| Pipeline Name (NOI Section 2): | Segment No. (NOI Section 2): | |

| CHECKLIST – ADDITIONAL NOI REQUIREMENTS | | |
|---|---|---|
| DEC Plan Review | ☐ Included | If treatment is needed to comply with water quality criteria for TAH or TAqH, the applicant may submit treatment system plans for review and approval for use in the BMP Toolkit. |

FILE NUMBER_____(for DEC use)

# NOI SECTION 9 ATTACHMENT

## General Permit AKG320000 - Statewide Pipeline Activities

# REQUEST FOR 500 FT MIXING ZONE FOR TURBIDITY AND RESIDUES

DISCHARGES 001, 003, OR 004

| Pipeline Name: | Segment No. (NOI Section 2): | Pipeline Mile Point (PMP): |
|---|---|---|

| DISCHARGE CATEGORY: | DISCHARGE LOCATION: |
|---|---|
| ☐ Drilling Fluids and Drill Cuttings Discharge (001)<br>☐ Gravel Pit Dewatering (003)<br>☐ Excavation Dewatering (004) | Latitude: Longitude: Coordinate Source:<br>Waterbody Name: |

ESTIMATED DAILY DISCHARGE FLOW RATES: (GPM)

| Average: | Maximum: | Maximum Volume (GPD): |
|---|---|---|

**SITE MAPS:** Submit a site map showing the exact location. Submit a vicinity map (topographic map or aerial photograph) showing the general location of the requested mixing zone. Provide a detailed site plan showing the elements associated with the discharge and the receiving water flow direction, discharge point, and environmental mapping elements (See receiving water data). A modified site plan from the Section 8 form is preferable.

IDENTIFY THE TIME PERIOD OR SEASON OF DISCHARGE:

## RECEIVING WATER INFORMATION

**THE FOLLOWING INFORMATION MUST BE PROVIDED IF REQUESTING A MIXING ZONE.** The NOI and all requested information will be reviewed to determine if the discharges associated with the mixing zone request are consistent with the permit conditions and that the site conditions meet the permit requirements. The burden of proof for justifying a mixing zone through demonstrating compliance with the requirements of 18 AAC 70.240 – 18 AAC 70.270 rests with the applicant. Additional information may be requested by DEC based on this review.

| Provide the once in 10 years, 7-day low flow (7Q10) (cfs) | |
|---|---|

| | | | |
|---|---|---|---|
| Distance from riverbank to discharge or first port on diffuser: | | Anticipated ambient turbidity during discharge (Seasonal Historic NTU data preferred): | |
| Number of ports and spacing: | | Length of diffuser: | |
| Diameter of port or ports: | | Depth of discharge or diffuser: | |
| Channel Width at Low Flow: | | Channel Depth at Low Flow: | |
| Mean Channel Velocity (fps) | | Channel Slope | |

**IDENTIFY USES OF RECEIVING WATER FROM DISCHARGE POINT TO MIXING ZONE BOUNDARY (500 FEET):** Disclose locations of any of following use categories, distances from discharge to nearby use, and source of information.

| *USE CATEGORY* | *DISTANCE (FEET)* | *SOURCE* |
|---|---|---|
| Supply for drinking water | | |
| Supply for agriculture including irrigation & stock water | | |
| Supply for aquaculture | | |
| Supply for industrial use | | |
| Contact recreation | | |
| Secondary recreation | | |
| Fish spawning | | |

**MITIGATION MEASURES:** Describe any mitigation measures requested by other agencies that may affect mixing zone authorization (e.g., time-area restrictions).

**ATTACHMENT 2 NOTICE OF TERMINATION FORM**

# Attachment 2

## Notice of Termination

# NOTICE OF TERMINATION:

## GENERAL PERMIT NO. AKG320000 – Statewide Oil and Gas Pipelines

Please submit this Notice of Termination to:

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

Submittal of this document constitutes notice that the parties identified in Sections 2 thru 3 intend to discontinue coverage for specified outfalls or entire authorization as indicated in Section 4 of this form. Please provide all information below and attach supplemental information sheets as appropriate.

**SECTION 1 – PERMIT INFORMATION**

**Current Permit Authorization No.:** AKG32

**SECTION 2 – RESPONSIBLE PARTY INFORMATION**
Owner/Operator or Person responsible for overall management of the project

| | | |
|---|---|---|
| First Name: | Last Name: | Title: |
| Company: | | |
| Facility/Project Name: | | |
| Phone: | Fax: | |
| E-mail Address: | | |
| Mailing Address: | | |
| City: | State: | Zip: |

**SECTION 4 –PERMIT REPORTING REQUIREMENTS (Select One)**

☐ All reporting requirements have been submitted <u>prior to the termination requests</u> summarized in Section 5 of this form.

☐ All reporting requirements have been submitted <u>with the termination requests</u> summarized in Section 5 of this form

## SECTION 5 – SUMMARY OF TERMINATION REQUESTS

☐ Check here, to request termination of entire permit authorization. Select reason for termination of permit[2]
(☐A ☐ B ☐ C Details: ), then skip to section 5.

☐ Check here, to request termination of specific unique outfall ID's, then complete the table below.

| Outfall Type | List Unique Outfall ID's to be Terminated [1] | Select Reason for Termination [2] |
|---|---|---|
| ☐ 002 Graywater | | ☐A ☐ B ☐ C<br>Details: |
| ☐ 003 Gravel Pit Dewatering | | ☐A ☐ B ☐ C<br>Details: |
| ☐ 004 Excavation Dewatering | | ☐A ☐ B ☐ C<br>Details: |
| ☐ 005 Hydrostatic Test Water | | ☐A ☐ B ☐ C<br>Details: |
| ☐ 006 Storm Water | | ☐A ☐ B ☐ C<br>Details: |
| ☐ 007 Mobile Spill Response | | ☐A ☐ B ☐ C<br>Details: |
| ☐ 008 Secondary Containment | | ☐A ☐ B ☐ C<br>Details: |

**NOTES:**

1) A Unique ID is the number that was assigned to each individual Discharge/Disposal request (e.g., 001A). This number consists of the outfall type (e.g. 002 thru 008), multiple outfalls may include unique identifiers (e.g., A, or MSE).
2) Check the box that most accurately describes the reason for the outfall termination requests:
   A) Outfall activities have ceased, coverage no longer needed.
   B) Alternative permit coverage is needed (provide alternative permit number under "Details")
   C) Other reason (provide brief details in the designated area)

## SECTION 6 – CERTIFICATION

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. Per 18 AAC 83.130(k), I certify there are no current or pending state or federal enforcement actions, including citizen suits brought under state or federal law. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| Signature | Title: |
|---|---|
| Printed Name: | Date: |

**ATTACHMENT 3 NONCOMPLIANCE NOTIFICATION**

# Attachment 3

## Noncompliance Notification

# Alaska Department of Environmental Conservation

## Division of Water, Compliance and Enforcement Program

555 Cordova Street Anchorage, AK 99501
Toll Free: 1(877) 569-4114
Anchorage: (907) 269-4114
Fax: (907) 269-4604
E-mail address: DEC-wqreporting@alaska.gov

# NONCOMPLIANCE NOTIFICATION

| | | |
|---|---|---|
| PERMIT# (if any): | | |
| Owner or Operator: | Facility Name: | Facility Location: |
| Person Reporting: | Phone Numbers of Person Reporting: | Reported How? (e.g. by phone): |
| Date/Time Event was Noticed: | Date/Time Reported: | Name of DEC Staff Contacted: |

**VERBAL NOTIFICATION MUST BE MADE TO DEC WITHIN 24 HOURS OF DISCOVERY OF NONCOMPLIANCE**

**INCIDENT DETAILS (attach additional sheets, lab reports, and photos as necessary)**

| | | |
|---|---|---|
| Period of Noncompliance | Start Date/Time (exact): | End Date/Time (exact): |

If noncompliance has not been corrected, provide a statement regarding the anticipated time the noncompliance is expected to continue:

Estimated Quantity involved (volume or weight):

Description of the noncompliance and its cause (be specific):

Actions taken to reduce, eliminate, and prevent reoccurrence of noncompliance and Actual/Potential Impact on Environmental Health (describe in detail) (e.g. Supplied drinking water to nearby well owners and informed well owners not to drink from wells until further notice)

Permit Condition Deviation (Identify each permit condition exceeded during the event.)

| Parameter (e.g. BOD pH) | Permit Limit | Exceedance (sample result) | Sample Date |
|---|---|---|---|
| | | | |

Corrective Actions (Attach a description of corrective actions taken to restore the system to normal operation and to minimize or eliminate chances of recurrence.)

Environmental Damage: (if yes, provide details below) ☐ Yes ☐ No ☐ Unknown

Actual /Potential Impact on Environment/Public Health (describe in detail)

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.

| | |
|---|---|
| Name: | Title: |
| Signature: | Date: |

**FORMS MUST BE SENT TO ADEC WITHIN FIVE DAYS OF BECOMING AWARE OF THE EVENT.**