



ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM

INDIVIDUAL PERMIT – DRAFT

**AK0000370 – Crowley Fuels, LLC
Anchorage Bulk Petroleum Storage Facility**

**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

Crowley Fuels, LLC

is authorized to discharge from the Anchorage Bulk Petroleum Storage Facility at 459 West Bluff Road, Anchorage, Alaska at the following location(s):

Outfall	Receiving Waterbody	Latitude	Longitude
001	Cook Inlet	61.2322	-149.8948

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

This permit and authorization shall become effective [\[insert date\]](#)

This permit and the authorization to discharge shall expire at midnight, [\[insert date\]](#)

The permittee shall reapply for a permit reissuance on or before [\[insert date\]](#), 180 days before the expiration of this permit if the permittee intends to continue operations and discharge(s) at the facility beyond the term of this permit.

The permittee shall post or maintain a copy of this permit to discharge at the facility and make it available to the public, employees, and subcontractors at the facility.

DRAFT

Signature

Date

Printed Name

Program Manager

Title

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SCHEDULE OF SUBMISSIONS

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

Permit Section	Submittal or Completion	Frequency	Due Date	Submit to^a
1.6 and App. A, 3.2	Discharge Monitoring Report (DMR)	Monthly	Must be postmarked, or submitted electronically through the eDMR system on or before the 28 th of the following month. ^b	C
1.1.1	Valve Pit E Outfall Relocation Plans	As Necessary	None	P
1.1.2	Storm Water or Allowable Non-storm Water Determinations	1/term	After Sufficient Data Collection (e.g., two years for SCA raw data)	P
2.1.1	Written notification that a Quality Assurance Project Plan (QAPP) has been developed and implemented	1/term	Within 90 days after the effective date of the final permit	C
2.2.2	Written notification that Best Management Practices (BMP) Plan has been developed and implemented	1/term	Within 90 days after the effective date of the final permit	C
2.3.2	Notification that Contaminated Groundwater Infiltrated the Liquid-tight Collection System	1/term	Within Five Days of Reported Exceedance for Total Aromatic Hydrocarbons (TAH) or Total Aqueous Hydrocarbons (TAqH)	P
Table 2, Note 3	Written Request for Frequency Reduction for TAH and TAqH	1/term	After two years (four sample results) demonstrating TAH and TAqH is below water quality criteria	P
2.2.6.4	Treatment Process BMPs to remove hydrocarbons	As Necessary	Prior to Implementation of the Hydrocarbon Treatment Process as a BMP	P
App. A, 1.3	Application for Permit Reissuance	1/term	180 days before expiration of the final permit	P
App. A, 3.4	Oral notification of noncompliance	As Necessary	Within 24 hours from the time the permittee becomes aware of the circumstances of noncompliance	C
App. A, 3.4	Written documentation of noncompliance	As Necessary	Within 5 days after the permittee becomes aware of the circumstances	C
a) See Appendix A 1.1 for addresses b) This due date supersedes the date shown in Standard Conditions Sections 3.2.1 and 3.2.3 on Page A-9.				

1.0 LIMITATIONS AND MONITORING REQUIREMENTS

1.1 Discharge Authorization

During the effective period of AK0000370 – Crowley Fuels, LLC, Anchorage Bulk Petroleum Facility (Permit), the permittee is authorized to discharge pollutants from Outfall 001 specified herein to Cook Inlet, within the limits and subject to conditions set forth herein. This Permit authorizes discharge of only those pollutants resulting from facility processes, waste streams, and operations clearly identified in this Permit or application process.

1.1.1 Discharge Monitoring Locations

The discharge monitoring locations applicable to the limits and monitoring requirements in Table 2 include the lift station sump downstream of the OWS when the effluent is discharged to the existing piped storm sewer. Alternatively, the permittee may submit system modification plans and a standard operating procedure (SOP) for DEC approval per 18 AAC 72 to discharge from Valve Pit E to the adjacent storm water channel. System modifications, at a minimum, must include sample ports, flow measuring or estimating, and control valves.

1.1.2 Separation of Storm Water and Allowable Non-Storm Water Sources

If two years of analytical data collected by the permittee demonstrates the precipitation collected in the tank farm secondary containment area (SCA) of Drainage Area A meets applicable water quality criteria for TAH and TAqH without treatment (i.e., meets the definition of storm water), the permittee may request approval for direct discharge to the storm water channel. To obtain DEC written approval, the permittee must submit a written request with supporting analytical data to DEC for review. In addition, after receiving DEC approval to discharge directly as storm water, there is a release or an observation of a sheen the permittee must either commingle the SCA water with other sources in Valve Pit E or request approval of a hydrocarbon removal process to be implemented as a BMP in the facility BMP Plan per Section 2.2.6.4. The treated SCA water must also meet applicable water quality criteria for TAH and TAqH in order to be considered an Allowable Non-storm Water discharge. All isolated raw SCA water test results and post treatment test results must be maintained in the Storm Water Pollution Prevention Plan BMP per Section 2.2.6.1.

1.1.3 The permittee may submit a hydrocarbon removal process for DEC review and approval as a BMP component for the discharge from Valve Pit E, if necessary to comply with water quality criteria for TAH and TAqH per Section 2.2.6.4.

1.2 General Requirements

1.2.1 The discharge of any pollutant or waste stream that is not listed as an authorized discharge under this Permit is prohibited.

1.2.2 Discharges shall not cause contamination of surface waters and shall not cause or contribute to a violation of the Alaska Water Quality Standards (18 AAC 70), except if excursions are authorized therein.

- 1.2.3 Discharges may not alone or in combination with other substances or wastes, make the water unfit or unsafe for the use; cause a film, sheen, or discoloration on the surface of the water or adjoining shorelines; cause leaching of toxic or other deleterious substances; or cause a sludge, solid, or emulsion to be deposited beneath or upon the surface of the water, within the water column, on the bottom, or upon adjoining shorelines.
- 1.2.4 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 method detection limit]” and if a value is less than a minimum level (ML), the permittee must report “less than [numeric value of ML].” For reporting TAH or TAqH below detection, see Section 1.2.5.
- 1.2.5 For purposes of reporting on the DMR for a single sample for TAH or TAqH where the parameter is a summation of results of individual analytes, estimated (e.g., “J” estimates) are considered as nondetectable. When all individual analytes are nondetectable, or estimates, the permittee must report the categorical summation of the common method detection limits with a “less than [categorical summation of method detection limits].” If any of the analytes are detectable, the permittee must report the summation of only the detected analytes on the DMR without a less than symbol. See Permit Appendix C for Definition of Categorical Sum.
- 1.2.6 For all effluent compliance monitoring outlined in Section 1.3 the permittee must use an analytical test method approved under Code of Federal Regulations (CFR) Title 40 Part 136 (40 CFR 136) and adopted by reference at 18 AAC 83.010, that can achieve a reporting limit less than the effluent limit. The permittee must use the method with a sufficiently sensitive method detection limit (See Appendix C – Definitions).
- 1.2.7 For any permit condition that requires onsite records be maintained and made available upon request, the permittee may use readily accessible electronic documents in lieu of hardcopy information to comply with these requirements.

1.3 Effluent Limits and Monitoring

In addition to the requirements in Section 1.2, the permittee must limit and monitor discharges from Outfall 001 as specified in Table 2 where all values represent maximum effluent limits, unless otherwise indicated.

Table 2: Effluent Limits and Monitoring Requirements for Outfall 001

Parameter (Units)	Effluent Limits	Monitoring Requirements	
		Frequency	Sample Type
Flow Volume (million gallons per day (mgd)) ¹	Report	Daily	Measure or Estimate
pH (standard units (su))	$6.5 \leq \text{pH} \leq 8.5$	Monthly	Grab
TSS (milligrams per liter (mg/L))	33	Quarterly	Grab
Turbidity (Nephelometric turbidity units (NTUs))	Report	Quarterly	Grab
Oil and Grease (Sheen) ¹	No visible sheen	Daily	Visual Observation
TAH (micrograms per liter ($\mu\text{g/L}$)) ^{2,3}	Report	Semiannual	Grab
TAqH ($\mu\text{g/L}$) ^{2,3}	Report	Semiannual	Grab
Notes:			
<ol style="list-style-type: none"> Flow volumes and visual observations for sheen must be measured daily when discharges occur and recorded in a daily log. Report total monthly flow volumes and average monthly flow volumes determined by dividing the total monthly volume by the number of discharge events for the month. Semiannual monitoring for TAH and TAqH must be conducted during seasonal high groundwater in April or May and September or October of each year of the Permit. See Section 1.2.5 for details how to report TAH and TAqH results below detection. If after two years of semiannual monitoring for TAH and TAqH, there are no exceedance with applicable water quality criteria and there have been no reported spills or observation of sheen, the permittee may submit a written request to DEC for approval to reduce the monitoring frequency to annual for TAH and TAqH, only. Annual monitoring must be performed in April or May of each year to correspond with seasonal high groundwater 			

1.3.1 Specific BMPs to Support Permit Compliance

The Permit requires that specific BMPs be developed and implemented for various conditions that may be encountered under the Permit to ensure compliance with limits and/or water quality criteria. The following list four potential specific BMPs:

- 1.3.1.1 Storm Water Pollution Prevention Plan BMPs (See Sections 1.1.2, and 2.2.6.1).
- 1.3.1.2 Aqueous Fire Fighting Foam (See Section 2.2.6.2).
- 1.3.1.3 Truck Rack SCA and Pump House Drain Isolation (See Section 2.2.6.3).
- 1.3.1.4 Hydrocarbon Removal Process (See Sections 1.1.3 and 2.2.6.4).

1.4 Additional Monitoring

1.4.1 Additional Monitoring Upon DEC Request

DEC may require additional monitoring of raw SCA water, effluent, or receiving water for facility or site-specific purposes, including, but not limited to: obtaining data to support NOI or applications, demonstrating of water quality protection, obtaining data to evaluate ambient water quality, evaluating causes for elevated parameters in the effluent, and conducting chronic WET toxicity identification and reduction evaluations. If additional monitoring is required, DEC will provide the permittee or applicant the request in writing.

1.4.2 Additional Monitoring by Permittee

The permittee also has the option of taking more frequent samples than required under the Permit (i.e., raw SCA or post-treatment effluent). These additional samples must be used for averaging if they are conducted using the Department approved test methods (generally found in 18 AAC 70 and 40 CFR 136 [adopted by reference in 18 AAC 83.010]). The results of any additional monitoring must be included in the calculation and reporting of the averaged data on DMRs if required by the Permit and Standard Conditions Part 3.2 and 3.3 (Appendix A). All individual sample data collected during the permit term must be submitted with the next application for reissuance.

1.5 Sufficiently Sensitive Methods

Monitoring for effluent must use methods with method detection limits that are less than the effluent limitations or are sufficiently sensitive per Section 1.2.6. Monitoring effluent or receiving water for the purpose of comparing to water quality criteria must use methods that are less than the applicable criteria or are sufficiently sensitive. See Appendix C for definition of sufficiently sensitive.

The determination of sufficiently sensitive methods discussed above for a single analyte is not applicable as it cannot be applied directly to TAH and TAqH due to the summation of multiple analytes. Hence, the determination of sufficiently sensitive is derived for single parameters and not a summation of numerous analytes. Therefore, for TAH and TAqH, DEC will apply a typical multiplier of 3.2 to the categorical sum of the method detection limits to “estimate” an ML for comparison with water quality criteria for TAH and TAqH. If the “estimated ML” is greater than the criteria, 10 µg/L and 15 µg/L respectively, DEC may request submittal of the analytical report to conduct a comprehensive review of those particular results.

1.6 Electronic Discharge Monitoring Reports

1.6.1 E-Reporting Rule - Phase I (DMRs)

The permittee must submit a DMR for each month by the 28th day of the following month. DMRs shall be submitted electronically through NetDMR per Phase I of the E-Reporting Rule (40 CFR 127). For access to the NetDMR Portal, go to <https://cdxnodengn.epa.gov/oeca-netdmr-web/action/login>. DMRs must be submitted even for months when discharges do not occur. The Permittee must submit a DMR with the box checked indicating no discharge has occurred. DMRs submitted in compliance with the E-Reporting Rule are not required to be submitted as described in Appendix A – Standard Conditions unless requested or approved by the Department. Any DMR data required by the Permit that cannot be reported in a NetDMR field (e.g. mixing zone receiving water data, etc.), shall be included as an attachment to the NetDMR submittal. DEC has established an e-Reporting Information website at <http://dec.alaska.gov/water/compliance/electronic-reporting-rule/> which contains general information about this new reporting format. Training modules and webinars for NetDMR can be found at <https://netdmr.zendesk.com/home>.

1.6.2 E-Reporting Rule - Phase II (Other Reporting)

Phase II of the E-Reporting rule will integrate electronic reporting for all other reports required by the Permit (e.g., Annual Reports and Certifications) and implementation is expected to begin during the permit cycle. Permittees should monitor the DEC E-Reporting website at <http://dec.alaska.gov/water/compliance/electronic-reporting-rule/> for updates on Phase II of the E-Reporting Rule and will be notified when they must begin submitting all other reports electronically. Until such time, other reports required by the Permit may be submitted in accordance with Appendix A – Standard Conditions.

2.0 SPECIAL CONDITIONS

2.1 Quality Assurance Project Plan

- 2.1.1 The permittee must develop a QAPP for all monitoring required by this permit. The permittee must submit written notice to DEC affirming that the QAPP is up to date and is being implemented within 90 days of the effective date of this Permit. An existing QAPP may be modified under this Section.
- 2.1.2 All procedures in the previous QAPP must be followed until the new QAPP has been implemented.
- 2.1.3 The QAPP must be designed to assist in planning for the collection and analysis of effluent and other water samples in support of the permit and to help explain data anomalies whenever they occur.
- 2.1.4 The permittee may use the generic DEC Wastewater Treatment Facility Quality Assurance Project Plan (DEC QAPP) as a template to develop a facility-specific QAPP required per Section 2.1. If using the generic DEC template, the developed QAPP must be specific for the facility.
- 2.1.5 Throughout all sample collection and analysis activities, the permittee must use DEC-approved QA/QC and chain-of-custody procedures, as described in the *Requirements for Quality Assurance Project Plans* (EPA/QA/R-5) and *Guidance for Quality Assurance Project Plans* (EPA/QA/G-5). The QAPP must be prepared in the format specified in these documents.
- 2.1.6 At a minimum, a QAPP must include:
 - 2.1.6.1 Details on sample scheduling, number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements;
 - 2.1.6.2 Maps indicating the location of each sampling point;
 - 2.1.6.3 Qualification and training of personnel; and

2.1.6.4 Name, address, and telephone number of all laboratories used by or proposed to be used by the permittee.

2.1.7 The permittee must amend the QAPP whenever sample collection, sample analysis, or other procedure addressed by the QAPP is modified.

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

2.2 Best Management Practices Plan

2.2.1 Purpose

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

2.2.2 Development and Implementation Schedule

The permittee must develop and implement a BMP Plan which achieves the objectives and the specific requirements listed below. The permittee must submit written notice to DEC that the plan has been developed and implemented within 90 days of the effective date of the permit. An existing BMP plan may be modified for compliance with this Section.

2.2.3 Objectives

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

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

2.2.3.2 Under the BMP Plan and especially within any standard operating procedures 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.

2.2.4 Each facility component or system must be examined for its waste minimization opportunities and its potential for causing a release of significant amounts of pollutants to lands and waters of the U.S. due to equipment failure, improper operation, natural phenomena such as rain 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.

2.2.5 Elements of the BMP Plan

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

2.2.5.1 Plan Components

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

- 2.2.5.1.1 Statement of BMP Policy. The BMP Plan must include a statement of management commitment to provide the necessary financial, staff, equipment, and training resources to develop and implement the BMP Plan on a continuing basis.
- 2.2.5.1.2 The BMP Plan must establish a BMP Committee responsible for developing, implementing, and maintaining the BMP Plan. Specify the structure, functions, and procedures of the BMP Committee.
- 2.2.5.1.3 Description of potential pollutant sources.
- 2.2.5.1.4 Risk identification and assessment.
- 2.2.5.1.5 Standard operating procedures to achieve the above objectives and specific best management practices (see below).
- 2.2.5.1.6 Reporting of BMP incidents
The reports must include a description of the circumstances leading to the incident, corrective actions taken and recommended changes to operating and maintenance practices to prevent recurrence.
- 2.2.5.1.7 Materials compatibility.
- 2.2.5.1.8 Good housekeeping.
- 2.2.5.1.9 Inspections.
- 2.2.5.1.10 Preventative maintenance and repair.
- 2.2.5.1.11 Security.
- 2.2.5.1.12 Employee training on the BMP Plan.
- 2.2.5.1.13 Record keeping and reporting.
- 2.2.5.1.14 Prior evaluation of any planned modifications to the facility to ensure that the requirements of the BMP plan are considered as part of the modifications.

2.2.5.1.15 Final constructed site plans, drawings, and maps (including detailed storm water outfall/culvert configurations).

2.2.6 Specific Best Management Practices.

The BMP Plan must establish specific BMPs or other measures to achieve the purpose described in Section 2.2.1 which ensure that the following specific requirements are met:

2.2.6.1 Storm Water Pollution Prevention Plan BMPs

Storm Water Pollution Prevention Plan BMPs include requirements for storm water and allowable non-storm water discharges. The permittee must develop and implement BMPs to eliminate contamination to the extent practicable in storm water at the facility using storm water pollution prevention practices. For the Permit, the term “storm water” is given the meaning of “storm water” associated with industrial activity as defined in 40 CFR 122.26(b)(14). The BMPs must specify monitoring storm water discharges to meet the minimum monitoring requirements of 40 CFR 122.44(i)(4)(i, ii, and iii). If the evaluation required by 40 CFR 122.44(i)(4)(i) identifies that additional measures are necessary to reduce pollutant loading, then the storm water pollution prevention practices shall be amended within six months to appropriately reduce pollutants.

2.2.6.2 Aqueous Fire Fighting Foam

The permittee must maintain BMPs to limit, manage, and control discharges from fire foam system testing and hydrant maintenance and testing. The uncontrolled release of Aqueous Fire-fighting Foam (AFFF) containing perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) to the environment is not permitted unless such action is warranted by an emergency. Any non-emergency action associated with AFFF must be performed with appropriate controls to prevent releases to the environment, including storage, training, and maintenance of the firefighting system. If an environmentally suitable substitute becomes available and approved for use by other agencies having jurisdiction, the permittee must evaluate the substitute foam and if appropriate, remove, dispose, and replace the legacy AFFF.

2.2.6.3 Truck Rack SCA and Pump House Drain Isolation

Given the truck rack is isolated from the collection system and is not an authorized discharge source under the Permit because of periodic AFFF testing, the permittee must develop a specific BMP to ensure that potentially contaminated water from the truck rack does not commingle with other onsite wastewaters and be discharged under the Permit. In addition, because the pump house floor drain is not considered to be storm water (i.e., not related to precipitation or an allowable non-storm water source), DEC recommends keeping the valve closed to disallow discharging under the Permit. Instead, the equipment repair/washdown water must be disposed in a manner similar to the truck rack. To help ensure these potentially contaminated sources are not discharged under the Permit, the permittee must develop and implement SOPs to ensure isolation and proper disposal practices be included as specific BMP in the BMP Plan..

2.2.6.4 Free-phase and Dissolved-phase Hydrocarbon Removal Process

Discharges from the SCA or other sources could become impacted by hydrocarbon contamination, which could limit discharging the water as storm water. If desired, the permittee may develop and implement BMP tools (i.e., hydrocarbon treatment) to help ensure compliance with Permit limits or water quality criteria 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. The BMP Plan must also include BMPs for hydrocarbon removal based on the observation of a sheen. This requirement may particularly important for situations where there is a likelihood of hydrocarbons being present in the discharge due to contaminated groundwater infiltration or a spill in the SCA of Drainage Area A.

2.2.7 Review and Certification:

The BMP must be reviewed and certified as follows:

2.2.7.1 Annual review must be performed by the plant manager and BMP Committee.

2.2.7.2 A certified statement that the above review was completed and the BMP Plan fulfills the requirements set forth in this Permit must be completed annually. The statement must be certified by the dated signatures of each BMP Committee member. All changes in the BMP Plan must certified and retained onsite and provided to DEC upon request.

2.2.8 Documentation

2.2.9 Copies of the BMP Plan must be kept on site and made available to DEC upon request. BMP Plan Modification

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

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

2.2.9.3 Any changes to the BMP Plan must be consistent with the objectives and specific requirements of this Section. All changes in the BMP Plan must be certified and retained onsite and provided to DEC upon request.

2.3 Groundwater Infiltration Monitoring and Corrective Actions

2.3.1 Background

The discharge of contaminated groundwater is considered a noncompliance event in this Permit. Hence, compliance with this Permit is conditional upon the adequate control of infiltration of contaminated groundwater into the subsurface collection

system. Annual monitoring of TAH and TAqH is required to evaluate continued efficacy of the liquid-tight collection system that controls infiltration determined by meeting existing water quality criteria per Section 2.3.2. The annual monitoring must be completed in May or April during periods of seasonal high groundwater elevation (e.g., when the liquid-tight collection system is submerged).

2.3.2 Notification Requirements

In the event that annual monitoring results for TAH or TAqH exceeds their respective water quality criteria of 10 g/L and 15 g/L, and the exceedance could be attributable to resurgence of groundwater infiltration, the permittee must verbally contact DEC within 24-hours of obtaining results. Exceedance of water quality criteria due to infiltration of contaminated groundwater will be considered an upset condition per Standard Conditions Section 2.7, Appendix A and reportable to DEC per Section 3.4 of the Standard Conditions. Within five days after obtaining results (including those required under Section 2.3.4), the permittee must submit a notice of non-compliance in writing to DEC that describes actions taken to date and/or planned in the near-term.

2.3.3 Corrective Actions

Upon discovery of a potential leak in the collection system, the permittee must immediately conduct an investigation to identify the source of the problem and develop and implement a plan to correct (i.e., conduct physical repairs) the problem as soon as practicable prior to the next monthly sample collection required per Section 2.3.4. The permittee must repeat the corrective action process until return to liquid-tightness has been demonstrated per Section 2.3.4 and approved by DEC in writing.

2.3.4 Accelerated Monitoring of TAH and TAqH

The permittee must implement monthly monitoring of TAH and TAqH until the repairs to the collection system have been made per Section 2.3.3, and monitoring results demonstrate a return to compliance of the applicable water quality criteria for TAH and TAqH. The results must be submitted to DEC with a written request to return to the annual monitoring frequency. Accelerated testing for TAH and TAqH is considered additional monitoring per Section 1.4.1.

APPENDIX A. Standard Conditions

APPENDIX A

STANDARD CONDITIONS

APDES PERMIT

NONDOMESTIC DISCHARGES

September 2011

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

1.0 Standard Conditions Applicable to All Permits

1.1 Contact Information and Addresses

1.1.1 Permitting Program

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

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

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

18 AAC 15	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 15: Administrative Procedures
18 AAC 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://law.alaska.gov/doclibrary/doclib.html>

40 CFR	Code of Federal Regulations Title 40: Protection of Environment
AAC	Alaska Administrative Code
Amb	Ambient Concentration
AFFF	Aqueous Fire-fighting Foam
AML	Average Monthly Limit
AWC	Applicable Water Quality Criteria
APDES	Alaska Pollutant Discharge Elimination System
AS	Air Station
AS	Alaska Statute(s)
AS 46.03	Alaska Statutes Title 46, Chapter 03: Environmental Conservation. Available at http://www.legis.state.ak.us/basis/folio.asp
BAT	Best Available Technology Economically Achievable
BCT	Best Conventional Pollutant Control Technology
BOD ₅	Biochemical Oxygen Demand, 5-day
BMP	Best Management Practice
BPJ	Best Professional Judgment
BPT	Best Practicable Control Technology Currently Available
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CFR	Code of Federal Regulations
CWA	Clean Water Act

CV	Coefficient of Variation
DEC	Alaska Department of Environmental Conservation
DF&G	Alaska Department of Fish and Game
DF	Dilution Factor
DMR	Discharge Monitoring Report
DNR	Alaska Department of Natural Resources
EC ₂₅	Effect Concentration 25%
EFH	Essential Fish Habitat
ELG	Effluent Limit Guidelines
EMP	Environmental Monitoring Program
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
FWS	Fish and Wildlife Service
g/Kg	Grams Per Kilogram
GPD or gpd	Gallons Per Day
GPM or gpm	Gallons Per Minute
IC ₂₅	Inhibition Concentration 25%
IP	Individual Permit
Kg/m ³	Kilograms per Cubic Meter
LC ₅₀	Lethal Concentration 50%
LOQ	Limit of Quantitation
LPD	Liters Per Day
LTA	Long Term Average
m	meters
MDL	Maximum Daily Limit
MEC	Maximum Expected Concentration
mg/L	Milligrams Per Liter
MGD or mgd	Million gallons per day
µg/L	Micrograms Per Liter
ml	Milliliter
ML	Minimum Level
MLLW	Mean Lower Low Water

m/s	Meters Per Second
mg	Million gallons
mgd	Million gallons per day
mg/L	Milligram per Liter
N/A	Not Applicable
NetDMR	EPA Electronic DMR Submittal Portal
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOEC	No Observed Effect Concentration
NPDES	National Pollutant Discharge Elimination System
O&G	Oil & Grease
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonate
POC	Parameter of Concern
PPT	Parts Per Thousand
PQL	Practical Quantification Limit
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RPA	Reasonable Potential Analysis
RWC	Receiving Water Concentration
SCA	Secondary Containment Area
SOP	Standard Operating Procedures
SU or su	Standard Units
SWPPP	Storm Water Pollution Prevention Plan
TAH	Total Aromatic Hydrocarbons
TAqH	Total Aqueous Hydrocarbons
TBEL	Technology-based Effluent Limit
TIE	Toxicity Identification Evaluation
TMDL	Total Maximum Daily Load
TOC	Total Organic Carbon
TRC	Total Residual Chlorine
TRE	Toxicity Reduction Evaluation

TS	Truck Stand
TSS	Total Suspended Solids
TUa	Toxic Unit, Acute
TUc	Toxic Unit, Chronic
U.S.	United States
USC	United States Code
USCG	United States Coast Guard
WET	Whole Effluent Toxicity
WLA	Wasteload Allocation
WWTP	Wastewater Treatment Plant
WQBEL	Water Quality-based Effluent Limit
WQC	Water Quality Criteria
WQS	Water Quality Standards

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.

Administrator ^a	Means the Administrator of the EPA or an authorized representative.
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.
Annual	Means once per calendar year.
Aquaculture ^b	Means the cultivation of aquatic plants or animals for human use or consumption.
Average	Means an arithmetic mean obtained by adding quantities and dividing the sum by the number of quantities.
Average Monthly Discharge Limitation ^a	Means the highest allowable average of "daily discharges" over a calendar month calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured for that month.
Backwash	Means wash water resulting from the backwashing of a water filter.
Best Management Practices (BMPs) ^a	Means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage areas.
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 20° C.
Boundary ^b	Means line or landmark that serves to clarify, outline, or mark a limit, border, or interface.
Bypass ^a	Means the intentional diversion of waste streams from any portion of a treatment facility.
Categorical Sum	The term categorical sum refers to the summation of methodology MDLs that are unique within a suite of analytes, i.e. no duplications of methodologies.
Chemical Oxygen Demand (COD) ^f	Is used as a measure of the oxygen equivalent of the organic matter content of a sample that is susceptible to oxidation by a strong chemical oxidant.
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 <i>Standard Methods for the Examination of Water and Wastewater</i> .
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.
Contaminated SCA	Means a secondary containment area (SCA) where a sheen, discoloration, or odor has been observed, or a spill has occurred.
Cooling Water	Means once-through non-contact cooling water.
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.
Datum	A datum defines the position of the spheroid, a mathematical representation of the earth, relative to the center of the earth. It provides a frame of reference for measuring locations on the surface of the earth by defining the origin and orientation of latitude and longitude lines.
Department ^a	Means the Alaska Department of Environmental Conservation.
Design Flow ^a	Means the wastewater flow rate that the plant was designed to handle.
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	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

Pollutant ^a	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.
Dissolved Oxygen (DO) ^b	Means the concentration of oxygen in water as determined either by the Winkler (iodometric) method and its modifications or by the membrane electrode method. The oxygen dissolved in water or wastewater and usually expressed in milligrams per liter or percent saturation.
Ecosystem ^b	Means a system made up of a community of animals, plants, and bacteria and the system's interrelated physical and chemical environment.
Effect Concentration	A point estimate of the toxicant concentration that would cause an observable adverse effect on a quantal, "all or nothing," response (e.g., death, immobilization, or serious incapacitation) in a given percent of the test organisms, calculated by point estimation techniques.
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.
Environmental Monitoring Program (EMP)	An environmental monitoring program focusing on the collection of sediment and receiving water samples aimed at investigating the environmental effects of a discharge on the surrounding environment.
EPA	Environmental Protection Agency
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.
Final Approval to Operate	Means the approval that the Department issues after it has reviewed and approved the construction and operation of the engineered wastewater treatment works plans submitted to the Department in accordance with 18 AAC 72.215 through 18 AAC 72.280 or as amended.

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: $\sqrt[4]{12 \times 23 \times 34 \times 990} = 55$.
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.
Influent	Means untreated wastewater before it enters the first treatment process of a wastewater treatment works.
Inhibition Concentration 25% (IC ₂₅) ^e	Means the point estimate of the toxicant concentration that would cause 25% reduction in a nonquantal biological measurement of the test organisms, such as reproduction or growth.
Lethal Concentration 50% (LC ₅₀) ^e	Mean the point estimate of the toxicant that would be lethal to 50% of the test organisms during a specific period.
Maximum Daily Discharge Limitation ^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.
Mean Lower Low Water ^b	Means the tidal datum plane of the average of the lower of the two low waters of each day, as would be established by the National Geodetic Survey, at any place subject to tidal influence.
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.
Method Detection Limit ^d	Means the minimum concentration of a substance (analyte) that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte.
Micrograms per Liter (µg/L) ^b	Means the concentration at which one millionth of a gram (10^{-6} g) is found in a volume of one liter.
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.
Minimum Level (ML) ^e	Means the concentration at which the entire analytical system must give a recognizable signal and an acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method-specified sample weights, volumes, and processing steps have been followed. This level is used as the compliance level if the effluent limit is below it. For this Permit, other terms to be taken as synonymous with ML include, but may not be

	limited to, “quantification limit” or “level of quantification”, “reporting limit”, and “level of detection.”
Mixing Zone ^b	Means a volume of water adjacent to a discharge in which wastes discharged mix with the receiving water.
Month	Means the time period from the 1 st of a calendar month to the last day in the month
Monthly Average	Means the average of daily discharges over a monitoring month calculated as the sum of all daily discharges measured during a monitoring month divided by the number of daily discharges measured during that month.
No Observed Effect Concentration (NOEC) ^e	Means the highest concentration of an effluent or a toxicant at which no adverse effects are observed on the aquatic test organisms at a specific time of observation. NOEC is determined using hypothesis testing.
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.
Practical Quantification Limit (PQL) ^g	Means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Primary Contact Recreation	See Contact Recreation.
Principal Executive Officer ^a	Means the chief executive officer of the agency or a senior executive officer having responsibility for the overall operations of a principal geographic unit of division of the agency.
Pollutant ^a	Means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under 42 U.S.C. 2011), heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, or agricultural waste discharged into water.
Quality Assurance Project Plan (QAPP)	Means a system of procedures, checks, audits, and corrective actions to ensure that all research design and performance, environmental monitoring and sampling, and other technical and reporting activities are of the highest achievable quality.
Quarter	Means the time period of three months based on the calendar year beginning with January.

Receiving Water Body	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)).
Recorded	Means a permanent record using mechanical or electronic equipment to provide a totalized reading, as well as a record of instantaneous readings.
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	<p>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.</p> <p>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.</p>
Secondary Containment Area (SCA)	In general, an area constructed to contain any spilled or leaked hazardous liquids from oil filled equipment, fuel storage tanks, truck washing areas, or other structures capable of leaking hazardous liquids. For this Permit, SCA mean containment areas that are typically constructed of steel, synthetic liners or synthetic liners with a layer of gravel on top to protect the liner and are required by 40 CFR 112 – Oil Pollution Prevention or 18 AAC 75 – Oil and Other Hazardous Substances Pollution Control, Article 1.
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.
Settleable Solids ^b	Means solid material of organic or mineral origin that is transported by and deposited from water, as measured by the volumetric Imhoff cone method and at the method detection limits specified in method 2540(F), <i>Standard Methods for the Examination of Water and Wastewater</i> , 18th edition (1992), adopted by reference in 18 AAC 70.020(c)(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 Industrial User (SIU) ^g	Means an indirect discharger that is the focus of control efforts under the national pretreatment program; includes all indirect dischargers subject to national categorical pretreatment standards, and all other indirect dischargers that contribute 25,000 gpd or more of process wastewater, or which make up five percent or more of the hydraulic or organic loading to the municipal treatment plant, subject to certain exceptions [40 CFR 403.3(t)].
Sufficiently Sensitive Method	Per 40 CFR 122.21(a)(3), a method approved under 40 CFR 136 is sufficiently sensitive when: <ul style="list-style-type: none"> (A) The method minimum level (ML) is at or below the level of the applicable water quality criterion for the measured parameter, or (B) The method ML is above the applicable water quality criterion, but the amount of the pollutant or pollutant parameter in the discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge, or (C) The method has the lowest ML of the analytical methods approved under 40 CFR 136 for the measured pollutant or pollutant parameter.
Suspended Solids	Means insoluble solids that either float on the surface of, or are in suspension in, water, wastewater, or other liquids. The quantity of material removed from wastewater in a laboratory test, as prescribed in <i>Standard Methods for the Examination of Water and Wastewater</i> and referred to as nonfilterable.
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.
Toxic Unit, Chronic (TUc) ^e	Means the reciprocal of the effluent concentration that causes no observable effect on the test organisms by the end of the chronic exposure period (i.e., 100/NOEC).
Uncontaminated SCA	Means a secondary containment area (SCA) where a spill has not occurred and a sheen, odor, or discoloration has not been observed. A contaminated SCA may be deemed uncontaminated after a certain time period without a spill, observation of a sheen, discoloration, or odor, or an exceedance of TAH and TAqH as specified in the Permit.
Untreated Waterflood	Untreated waterflood is water from the same source as normal waterflood without the concomitant contamination from chemicals or compounds used to treat normal waterflood prior to its injection into an

	oil formation. Typical chemicals or compounds usually consist of descalers, biocides, and oxygen scavengers.
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.
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.
Water Depth	Means the depth of the water between the surface and the seafloor as measured at MLLW.
Waterflood	Waterflooding or water injection is where water is injected into an oil field, usually to increase pressure and thereby stimulate production.
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.
Zone of Deposit	Means the total area of the bottom in marine or estuarine waters in which DEC has authorized the deposit of substances in exceedance of the water quality criteria in 18 AAC 70.020(b) and the antidegradation requirement in 18 AAC 70.010(c).

Notes:

a) See 18 AAC 83

b) See 18 AAC 70.990

c) See 18 AAC 72.990

d) See 40 CFR Part 136

e) See EPA Technical Support Document

f) See Standard Methods for the Examination of Water and Wastewater 18th Edition

g) See EPA Permit Writers Manual