

United States Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, Washington 98101

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, 33 U.S.C. §1251 *et seq.*, as amended by the Water Quality Act of 1987, P.L. 100-4, the "Act."

The City of Unalaska

is authorized to discharge from the Unalaska facility located in Unalaska, Alaska to receiving waters named the south Unalaska Bay, at the following location:

<u>Outfall</u>	<u>Latitude</u>	<u>Longitude</u>
001	53°53'01" North	166°33'01" West

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

This permit shall become effective **February 1, 2004**.

This permit and the authorization to discharge shall expire at midnight, **February 1, 2009**.

Signed this 15th day of December, 2003,

/s/
Randall F. Smith
Director
Office of Water, Region 10
U.S. Environmental Protection Agency

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I. LIMITATIONS AND MONITORING REQUIREMENTS

During the effective period of this permit, the permittee is authorized to discharge pollutants from the outfalls specified herein to the south Unalaska Bay, within the limits and subject to the conditions set forth herein. This permit authorizes the discharge of only those pollutants resulting from facility processes, waste streams, and operations that have been clearly identified in the permit application process.

A. Effluent Limitations and Monitoring

- The permittee must limit and monitor discharges from outfall 001 as specified in Table 1, below. All figures represent maximum effluent limits unless otherwise indicated. The permittee must comply with the effluent limits in the tables at all times unless otherwise indicated, regardless of the frequency of monitoring or reporting required by other provisions of this permit.

Table 1 - Outfall 001 Effluent Limitations and Monitoring Requirements						
PARAMETER	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS		
	Average Monthly Limit	Average Weekly Limit	Daily Maximum Limit	Sample Location	Sample Frequency	Sample Type
Flow, MGD	0.6	---	0.9	Effluent	Continuous	Recording
Biochemical Oxygen Demand (BOD ₅) ¹	140 mg/l		200 mg/l	Influent and Effluent	monthly	24-hour composite
	700 lbs/day		1501 lbs/day			
Total Suspended Solids ¹ (TSS)	140 mg/l		200 mg/l	Influent and Effluent	monthly	24-hour composite
	700 lbs/day		1501 lbs/day			
Fecal Coliform ^{2,3,8} Bacteria #/100ml	10,000		15,000	Effluent	weekly ⁸	grab
Total Ammonia as N mg/L	---	---	---	Effluent	quarterly	24-hour composite

Table 1 - Outfall 001 Effluent Limitations and Monitoring Requirements

PARAMETER	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS		
	Average Monthly Limit	Average Weekly Limit	Daily Maximum Limit	Sample Location	Sample Frequency	Sample Type
	---	---	---			
pH ⁵ standard Units	see Part I.A.3			Effluent	quarterly	grab
Dissolved Oxygen ⁵ mg/L	see Part I.A.4			Effluent	weekly	grab
Temperature ^{4,5} °C	---	---	---	Effluent	quarterly	grab
Total Aqueous ⁴ Hydrocarbons µg/L	---	---	15	Effluent	quarterly	24-hour composite
Total Aromatic ⁴ Hydrocarbons µg/L	---	---	10	Effluent	quarterly	24-hour composite
Hardness ⁴ µg/L	---	---	---	Effluent	quarterly	24-hour composite
Total Arsenic ^{4,5,6} µg/L	---	---	---	Effluent	semi-annual	24-hour composite
Total Chromium ^{4,5,6,7} µg/L	---	---	---	Effluent	semi-annual	24-hour composite
Total Zinc ^{4,5,6} µg/L	---	---	---	Effluent	semi-annual	24-hour composite
Total Iron ^{4,5,6} µg/L	---	---	---	Effluent	semi-annual	24-hour composite
Total Copper ^{4,5,6} µg/L	---	---	---	Effluent	semi-annual	24-hour composite

Table 1 - Outfall 001 Effluent Limitations and Monitoring Requirements

PARAMETER	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS		
	Average Monthly Limit	Average Weekly Limit	Daily Maximum Limit	Sample Location	Sample Frequency	Sample Type
Footnotes: 1. a. Effluent and influent sampling is to be done within the same 24 hour period. b. THESE PARAMETERS HAVE A COMPLIANCE SCHEDULE in section I B. 2. The mixing zone for fecal coliform bacteria is defined as 150 meter radius circle, centered on the outfall, over the diffuser and extending from the marine bottom to the surface. . 3. Reporting is required within 24 hours of a maximum daily limit violation. See Part III.G. 4. Samples shall be taken twice a year, once during dry season and once during wet season. Report monitoring results in January DMR and July DMR. 5. Zone of initial dilution (ZID) for DO, pH, total chlorine, temperature, and metals. The ZID is defined as a radius of 50 meters, centered on the outfall line and over the diffuser, extending from the diffuser to the surface. The ZID provides dilution of 100:1. 6. Sampling will take place when leachate from the landfill is discharged through the treatment system. 7. For the first two years of the permit samples shall be tested for total Chromium, if any values are 50 µg/l or more at this time or any other time then the samples shall be tested for total Chromium and Chromium VI, otherwise, continue duration of permit to sample and test for total Chromium. 8. Weekly sampling for fecal coliform until compliance is achieved for 12 consecutive months. Sampling frequency could then decrease to monthly. If after monthly monitoring is achieved and at any time there is an exceedence, then the permittee will sample every week until 24 consecutive weeks of staying in compliance then the sampling can return to monthly.						

2. The permittee must not discharge any floating solids, visible foam in other than trace amounts, or oily wastes that produce a sheen on the surface of the receiving water.
3. The pH of the effluent must not be less than 6.5 standard units (s.u.) nor greater than 8.5 standard units (s.u.).
4. The dissolved oxygen (DO) in effluent must not be less than 2.0 mg/l nor greater than limit of 17.0 mg/l.
5. Removal Requirements for BOD₅ and TSS: The monthly average effluent concentration must not be less than 30 percent of the monthly average influent concentration.

Percent removal of BOD₅ and TSS must be reported on the Discharge Monitoring Reports (DMRs). For each parameter, the monthly average percent removal must be calculated from the arithmetic mean of the influent values and the arithmetic mean of the effluent values for that month divided by the arithmetic mean of the influent values.

6. Total Residual Chlorine. If a chlorine compound is used to disinfect the effluent then the level of total residual chlorine (TRC) in the effluent shall be as follows in Table 1a.

Table 1a - Outfall 001 Effluent Limitations and Monitoring Requirements						
Parameter	Effluent Limitations			Monitoring Requirements		
	Monthly Average	Weekly average	Daily maximum	Sample location	Sample frequency	Sample type
Total Residual Chlorine ¹ mg/l	0.17	---	0.34	effluent	weekly ^{1,2}	grab
footnote: 1. Chlorine monitoring is required only when a chlorine compound is used for disinfection. When chlorine is used for less than one week then sampling must be done once during the usage of chlorine. 2. An annual report must be submitted to EPA each year that chlorine is used. The annual report must be submitted by February 1.						

For purpose of reporting on the Discharge Monitoring Report (DMR), if a value is less than the ML, the permittee shall report “less than (numerical MDL) on the DMR. For example, if the laboratory reports “not detected” for a sample and states that the MDL is “10µg/l”, then the permittee shall report “less than 10µg/l” on the DMR.

7. The permittee shall place signs on the shoreline near the mixing zone and outfall line. The signs shall state that treated domestic wastewater is being discharged, the name and owner of the facility and the approximate location and size of the mixing zone. The signs shall inform the public that certain activities, such as the harvesting of shellfish for raw consumption and bathing should not take place in the mixing zone and give a contact number for additional information.

8. The permittee must collect effluent samples from the effluent stream after the last treatment unit prior to discharge into the receiving waters.
9. Method Detection Limits. For all effluent monitoring, the permittee must use methods that can achieve a method detection limit (MDL) less than the effluent limitation. For parameters that do not have effluent limitations, the permittee must use methods that can achieve MDLs less than or equal to those specified in Table 2.

Table 2 Metals: Method Detection Limit in µg/l	
Metal	Method Detection Limit (MDL)
Arsenic	1.4
Chromium	8
Copper	0.5
Iron	30
Zinc	50

For purposes of reporting on the DMR, if a value is greater than the MDL, the permittee must report the actual value. If a value is less than the MDL, the permittee must report “less than {numeric MDL}” on the DMR. For purposes of calculating monthly averages, zero may be used for values less than the MDL.

B. Schedule of Compliance

1. The permittee must achieve compliance with the effluent limits in Table 1 for BOD₅ and TSS within 48 months of the effective date of the final permit. The schedule is as follows:
 - a. Within 18 months of the effective date of the final permit the permittee must complete a study; decide on a course of action to bring the facility into compliance with Table 1 of the permit; and notify ADEC in writing of

results of the study and final decision.

- b. Within 24 months of the effective date of the final permit the permittee must develop a plan for any additions or modifications to the facility. The plan must be approved by ADEC within this 24 month period.
 - c. Within 48 months from the effective date of the final permit the permittee must construct, and have operational, any additions and/or modifications to the facility that have been approved by ADEC in the above referenced plan.
2. Until compliance with the effluent limits for BOD₅ and TSS is achieved, at a minimum, the permittee must achieve compliance with the interim limits listed in Table 3.

Interim Limits Table 3		
Parameter	Monthly Average	Daily Maximum
BOD		468 mg/l
BOD		2,343 lbs/day
TSS		468 mg/l
TSS		2,343 lbs/day

3. The permittee must submit an Annual Report of Progress which outlines the progress made towards reaching the compliance dates for BOD₅ and TSS effluent limitations. The annual Report of Progress must be submitted by February 1, of each year. The first report is due February 1, 2005, and annually thereafter, until compliance with BOD₅ and TSS effluent limits is achieved. See also Part II.J., “Compliance Schedules.” At a minimum, the annual report must include:
- a. An assessment of the previous year of BOD₅ and TSS, and comparison to the effluent limitations.
 - b. A report on progress made towards meeting the effluent limitations.
 - c. Further actions and milestones targeted for the upcoming year.

C. Surface Water Monitoring. The permittee must conduct surface water monitoring. Surface water monitoring must start 120 days after the effective date of the permit. The

program must meet the following requirements:

1. Monitoring stations must be established in south Unalaska Bay at a location that is outside of the mixing zone and away from the influence of the facility’s discharge. The monitoring stations must be approved by EPA.
2. To the extent practicable, surface water sample collection must occur on the same day as effluent sample collection.
3. Surface water samples must be grab samples.
4. Samples must be analyzed for the parameters listed in Table 3.

Table 3: Surface Water Monitoring		
Parameter	Units	Sampling Frequency
Total Ammonia as N	mg/L	semi-annual
Temperature	°C	semi-annual
fecal coliform	#colonies/100ml	footnote 1
Salinity	mg/L	semi-annual
pH	standard units	semi-annual

Table 3: Surface Water Monitoring		
Parameter	Units	Sampling Frequency
<p>footnote:</p> <p>1. The mixing zone for fecal coliform bacteria is defined as 150 meter radius circle, centered on the outfall, over the diffuser and extending from the marine bottom to the surface. Monitoring is required at the outside edge of the mixing zone. Collection of samples from 3 locations: 1 - shoreline sample [shoreline area of human uses closest to the outfall, 2 - two samples from different locations at the outside edge of the mixing zone. Sampling to be performed four times per year, during the first two years of the permit (April, June, August, and 1 time during winter as weather permits). Upon no violations, (that are attributable to the quality of the discharged effluent), of the monthly average of 14 FC/100ml, or the daily maximum of 43 FC/100ml at the edge of the mixing zone, or the daily maximum of 200 FC/100ml for shoreline samples, the monitoring may be decreased to once per year at the three stations. The monitoring shall be performed on the same days as the effluent monitoring</p>		

5. Quality assurance/quality control plans for all the monitoring must be documented in the Quality Assurance Plan required under Part I.C., “Quality Assurance Plan.”
6. The permittee must submit surface water monitoring results to EPA and ADEC with the next permit application, which is due 180 days prior to the expiration date of the permit. At a minimum, the report must include the following:
 - a. Dates of sample collection and analyses.
 - b. Results of sample analysis.
 - c. Relevant quality assurance/quality control (QA/QC) information.
7. Surface water samples must be collected as long as it is safe to do so. If the surface water samples cannot be collected during a given month in which the facility is discharging, the sample must be collected as soon as practicable. An explanation of why the sample was not collected during the month in which the facility was discharging, must be included in the surface water monitoring report.

D. Leachate-only Monitoring

The permittee must conduct leachate-only monitoring. Leachate-only monitoring must start 120 days after the effective date of the permit. The program must meet the following requirements:

1. Leachate-only monitoring means that the leachate, before it is mixed with anything else, is sampled prior to entering into the domestic wastewater of the treatment plant.
2. In the event that the leachate permanently ceases to flow into the wastewater treatment plant, the permittee will be allowed to discontinue monitoring for metals in the municipal landfill leachate.
3. Samples must be analyzed for the parameters listed in Table 4.

Table 4: Leachate - only Monitoring			
Metals	Units	Sampling Frequency	Type of Sample
Total Arsenic ^{1,2}	µg/l	semi-annual	24 hour composite
Total Chromium ^{1,2,3}	µg/l	semi-annual	24 hour composite
Total Iron ^{1,2}	µg/l	semi-annual	24 hour composite
Total Copper ^{1,2}	µg/l	semi-annual	24 hour composite
Total Zinc ^{1,2}	µg/l	semi-annual	24 hour composite

Table 4: Leachate - only Monitoring			
Metals	Units	Sampling Frequency	Type of Sample
Footnotes 1. Sampling will take place when leachate from the landfill is discharged through the treatment system. 2. Samples shall be taken twice a year, once during dry season and once during the wet season. 3. Testing for total Chromium shall occur during the first two years, Any monitoring values are greater than 50 µg/l then testing shall occur for Chromium VI., as well as total Chromium.			

4. Quality assurance/quality control plans for all the monitoring must be documented in the Quality Assurance Plan required under Part I.C., “Quality Assurance Plan.”
5. The permittee must submit leachate-only monitoring results to EPA and ADEC with the next permit application, which is due 180 days prior to the expiration date of the permit. At a minimum, the report must include the following:
 - a. Dates of sample collection and analyses.
 - b. Results of sample analysis.
 - c. Relevant quality assurance/quality control (QA/QC) information.

E. Quality Assurance Plan (QAP). The permittee must develop and implement a quality assurance plan (QAP) for all monitoring required by this permit. Notification of completion must be submitted to EPA and ADEC within 120 days of the effective date of this permit and implemented within 180 days of the effective date of this permit.. Any existing QAPs may be modified for submittal under this section.

1. The QAP must be designed to assist in planning for the collection and analysis of effluent and receiving water samples in support of the permit and in explaining data anomalies when they occur.

2. Throughout all sample collection and analysis activities, the permittee must use the EPA-approved QA/QC and chain-of-custody procedures described in the most recent version of *Requirements for Quality Assurance Project Plans* (EPA/QA/R-5) and *Guidance for Quality Assurance Project Plans* (EPA/QA/G-5). The QAP must be prepared in the format which is specified in these documents. The following references may be helpful in preparing the Quality Assurance Plan for this permit:
U.S. Environmental Protection Agency, Method 1669: Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels, 1995 (EPA-821-R-95-034), and
U.S. Environmental Protection Agency, Sampling Ambient and Effluent Waters for Trace Metals (EPA-821-V-97-001).
3. At a minimum, the QAP must include the following:
 - a. Details on the 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.
 - b. Map(s) indicating the location of each sampling point.
 - c. Qualification and training of personnel.
 - d. Name(s), address(es) and telephone number(s) of the laboratory(ies), used by or proposed to be used by the permittee.
4. The permittee must amend the QAP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAP.
5. The permittee must keep copies of the most current QAP on site and must make the QAP available to EPA and/or ADEC upon request.

F. Best Management Practices Plan

The permittee must develop an operations and maintenance plan (O&M). Notification of

completion must be submitted to EPA and ADEC within 180 days of the effective date of this permit. The O&M plan must include appropriate best management practices (BMPs); the plan must be reviewed annually thereafter. BMPs include measures which prevent or minimize the potential for the release of pollutants to south Unalaska Bay. The Plan must be retained on site and made available to EPA upon request. The description of BMPs must address, to the extent practicable, the following minimum components: spill prevention and control; optimization of chemical usage; preventive maintenance program; research, development and implementation of a public information and education program to control the introduction of household hazardous materials to the sewer system; and water conservation.

G. Inflow and Infiltration Study

The permittee must begin an infiltration and inflow (I&I) study and it must be completed in the first four years of the permit. The report must be sent to EPA and ADEC within 180 days before the expiration date of the permit. The study shall include but not be limited to:

- the size of the I&I problem including wet and dry monitoring;
- determine the cause and/or location of the problem; and
- for the report, prioritize the remediation measures and assign dates for when it is expected to be completed within the next 5 years term of the permit.

II. MONITORING, RECORDING AND REPORTING REQUIREMENTS

A. Representative Sampling (Routine and Non-Routine Discharges). Samples and measurements must be representative of the volume and nature of the monitored discharge.

In order to ensure that the effluent limits set forth in this permit are not violated at times other than when routine samples are taken, the permittee must collect additional samples at the appropriate outfall whenever any discharge occurs that may reasonably be expected to cause or contribute to a violation that is unlikely to be detected by a routine sample. The permittee must analyze the additional samples for those parameters limited in Part I.A. of this permit that are likely to be affected by the discharge.

The permittee must collect such additional samples as soon as the spill, discharge, or bypassed effluent reaches the outfall. The samples must be analyzed in accordance with

paragraph II.C (“Monitoring Procedures”). The permittee must report all additional monitoring in accordance with paragraph II.D (“Additional Monitoring by Permittee”).

- B. Reporting of Monitoring Results.** The permittee must summarize monitoring results each month on the Discharge Monitoring Report (DMR) form (EPA No. 3320-1) or equivalent or forms provided or specified by the Director for reporting results of monitoring of sludge use or disposal practices. The permittee must submit reports monthly, postmarked by the 10th day of the following month. The permittee must sign and certify all DMRs, and all other reports, in accordance with the requirements of Part IV.E. of this permit ("Signatory Requirements"). The permittee must submit the legible originals of these documents to the Director, Office of Water, and with copies to ADEC at the following addresses:

United States Environmental Protection Agency
Region 10
1200 Sixth Avenue, OW-133
Seattle, Washington 98101

Alaska Department of Environmental Conservation
Division of Air and Water Quality
attn: Industrial Operations Section
555 Cordova Street
Anchorage, Alaska 99501-2617

and

Alaska Department of Environmental Conservation
Unalaska Field Office
P.O. Box 462
Unalaska, Alaska 99692

- C. Monitoring Procedures.** Monitoring must be conducted according to test procedures approved under 40 CFR 136 or, in the case of sludge use or disposal, approved under 40 CFR 503, unless other test procedures have been specified in this permit.
- D. Additional Monitoring by Permittee.** If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR 136

or, in the case of sludge use or disposal, approved under 40 CFR 136 unless otherwise specified in 40 CFR 503, or as specified in this permit, the permittee must include the results of this monitoring in the calculation and reporting of the data submitted in the DMR or sludge reporting forms specified by the Director.

Upon request by the Director, the permittee must submit results of any other sampling, regardless of the test method used.

E. Records Contents. Records of monitoring information must include:

1. the date, exact place, and time of sampling or measurements;
2. the name(s) of the individual(s) who performed the sampling or measurements;
3. the date(s) analyses were performed;
4. the names of the individual(s) who performed the analyses;
5. the analytical techniques or methods used; and
6. the results of such analyses.

F. Retention of Records. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR 503), the permittee must retain records of all monitoring information, including, all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, copies of DMRs, a copy of the NPDES permit, and records of all data used to complete the application for this permit, for a period of at least five years from the date of the sample, measurement, report or application. This period may be extended by request of the Director or ADEC at any time.

G. Twenty-four Hour Notice of Noncompliance Reporting

1. The permittee must report the following occurrences of noncompliance by telephone within 24 hours from the time the permittee becomes aware of the circumstances:
 - a. any noncompliance that may endanger health or the environment;
 - b. any unanticipated bypass that exceeds any effluent limitation in the permit (See Part III.F., "Bypass of Treatment Facilities");

- c. any upset that exceeds any effluent limitation in the permit (See Part III.G., "Upset Conditions");
 - d. any violation of a maximum daily discharge limitation for any of the pollutants in "Table 1 of Part I.A."; or
 - e. any overflow prior to the treatment works, whether or not such overflow endangers health or the environment or exceeds any effluent limitation in the permit.
2. The permittee must also provide a written submission within five days of the time that the permittee becomes aware of any event required to be reported under subpart 1, above. The written submission must contain:
- a. a description of the noncompliance and its cause;
 - b. the period of noncompliance, including exact dates and times;
 - c. the estimated time noncompliance is expected to continue if it has not been corrected;
 - d. steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance; and
 - e. if the non compliance involves an overflow prior to the treatment works, an estimate of the quantity (in gallons) of untreated overflow.
3. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the NPDES Compliance Hotline in Seattle, Washington, by telephone, (206) 553-1846.
4. Reports must be submitted to the addresses in Part II.B ("Reporting of Monitoring Results").

H. Other Noncompliance Reporting. The permittee must report all instances of

noncompliance, not required to be reported within 24 hours, at the time that monitoring reports for Part II.B ("Reporting of Monitoring Results") are submitted. The reports must contain the information listed in Part II.G.2 of this permit ("Twenty-four Hour Notice of Noncompliance Reporting").

I. Notice of New Introduction of Pollutants. The permittee must provide notice to the Director and ADEC of:

1. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Act if it were directly discharging those pollutants; and
2. Any substantial change in the volume or character of pollutants being introduced into the POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
3. For the purposes of this section, adequate notice must include information on:
 - a. The quality and quantity of effluent to be introduced into the POTW, and
 - b. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

J. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date.

III. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

B. Penalties for Violations of Permit Conditions

1. **Civil and Administrative Penalties.** Pursuant to 40 CFR 19 and the Act, any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed the maximum amounts authorized by Section 309(d) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$27,000 per day for each violation).
2. **Administrative Penalties.** Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Pursuant to 40 CFR 19 and the Act, administrative penalties for Class I violations are not to exceed the maximum amounts authorized by Section 309(g)(2)(A) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$11,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$27,500). Pursuant to 40 CFR 19 and the Act, penalties for Class II violations are not to exceed the maximum amounts authorized by Section 309(g)(2)(B) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$12,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$137,500).
3. **Criminal Penalties:**
 - a. **Negligent Violations.** The Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to

criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than 2 years, or both.

- b. **Knowing Violations.** Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both.
- c. **Knowing Endangerment.** Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the Act, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.
- d. **False Statements.** The Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both. The Act further provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine

of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

C. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this permit.

D. Duty to Mitigate. The permittee must take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

E. Proper Operation and Maintenance. The permittee must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

F. Bypass of Treatment Facilities

1. Bypass not exceeding limitations. The permittee may allow any bypass to occur that does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2 and 3 of this Part.
2. Notice.
 - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it must submit prior notice, to the Director and ADEC if possible at least 10 days before the date of the bypass.
 - b. Unanticipated bypass. The permittee must submit notice of an unanticipated bypass as required under Part II.G ("Twenty-four Hour Notice of Noncompliance Reporting").
3. Prohibition of bypass.

- a. Bypass is prohibited, and the Director may take enforcement action against the permittee for a bypass, unless:
 - i) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
 - iii) The permittee submitted notices as required under paragraph 2 of this Part.
- b. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraph 3.a. of this Part.

G. Upset Conditions

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the permittee meets the requirements of paragraph 2 of this Part. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
2. Conditions necessary for a demonstration of upset. To establish the affirmative defense of upset, the permittee must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;

- b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required under Part II.G, “Twenty-four Hour Notice of Noncompliance Reporting,” and
 - d. The permittee complied with any remedial measures required under Part III.D, “Duty to Mitigate.”
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

H. Toxic Pollutants. The permittee must comply with effluent standards or prohibitions established under Section 307(a) of the Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Act within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

I. Planned Changes. The permittee must give notice to the Director and ADEC as soon as possible of any planned physical alterations or additions to the permitted facility whenever:

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source as determined in 40 CFR 122.29(b); or
2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this permit.
3. The alteration or addition results in a significant change in the permittee’s sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application site.

J. Anticipated Noncompliance. The permittee must give advance notice to the Director and ADEC of any planned changes in the permitted facility or activity that may result in noncompliance with this permit.

IV. GENERAL PROVISIONS

- A. Permit Actions.** This permit may be modified, revoked and reissued, or terminated for cause as specified in 40 CFR 122.62, 122.64, or 124.5. The filing of a request by the permittee for a permit modification, revocation and reissuance, termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- B. Duty to Reapply.** If the permittee intends to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. In accordance with 40 CFR 122.21(d), and unless permission for the application to be submitted at a later date has been granted by the Director, the permittee must submit a new application at least 180 days before the expiration date of this permit.
- C. Duty to Provide Information.** The permittee must furnish to the Director and ADEC, within the time specified in the request, any information that the Director or ADEC may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee must also furnish to the Director or ADEC, upon request, copies of records required to be kept by this permit.
- D. Other Information.** When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or that it submitted incorrect information in a permit application or any report to the Director or ADEC, it must promptly submit such facts or information.
- E. Signatory Requirements.** All applications, reports or information submitted to the Director and ADEC must be signed and certified as follows.
1. All permit applications must be signed as follows:
 - a. For a corporation: by a responsible corporate officer.
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.
 - c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

2. All reports required by the permit and other information requested by the Director or ADEC must be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company; and
 - c. The written authorization is submitted to the Director and ADEC.
3. Changes to authorization. If an authorization under Part IV.E.2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part IV.E.2. must be submitted to the Director and ADEC prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. Certification. Any person signing a document under this Part must make the following 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."

F. Availability of Reports. In accordance with 40 CFR 2, information submitted to EPA pursuant to this permit may be claimed as confidential by the permittee. In accordance with the Act, permit applications, permits and effluent data are not considered confidential. Any

confidentiality claim must be asserted at the time of submission by stamping the words “confidential business information” on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice to the permittee. If a claim is asserted, the information will be treated in accordance with the procedures in 40 CFR 2, Subpart B (Public Information) and 41 Fed. Reg. 36902 through 36924 (September 1, 1976), as amended.

G. Inspection and Entry. The permittee must allow the Director, ADEC, or an authorized representative (including an authorized contractor acting as a representative of the Administrator), upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

H. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, nor any infringement of state or local laws or regulations.

I. Transfers. This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act. (See 40 CFR 122.61; in some cases, modification or revocation and reissuance is mandatory).

J. State Laws. Nothing in this permit shall be construed to preclude the institution of any

legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Act.

- K. Reopener.** This permit may be reopened to include any applicable standard for sewage sludge use or disposal promulgated under section 405(d) of the Act. The Director may modify or revoke and reissue the permit if the standard for sewage sludge use or disposal is more stringent than any requirements for sludge use or disposal in the permit, or controls a pollutant or practice not limited in the permit.

V. DEFINITIONS

1. "Act" means the Clean Water Act.
2. "ADEC" means Alaska Department of Environmental Conservation.
3. "Administrator" means the Administrator of the EPA, or an authorized representative.
4. "Average monthly discharge limitation" means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.
5. "Best Management Practices" (BMPs) 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.
6. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
7. "Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average

measurement of the pollutant over the day.

8. "Director" means the Director of the Office of Water, EPA, or an authorized representative.
9. "DMR" means discharge monitoring report.
10. "EPA" means the United States Environmental Protection Agency.
11. "Geometric mean" of "n" quantities is the "nth" root of the product of the quantities. For example the geometric mean of 100, 200 and 300 is $(100 \times 200 \times 300)^{1/3} = 181.7$
12. "Grab" sample is an individual sample collected over a period of time not exceeding 15 minutes.
13. "Maximum daily discharge limitation" means the highest allowable "daily discharge."
14. "Method Detection Limit (MDL)" 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.
15. "Minimum Level (ML)" 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.
16. "POTW" means publicly owned treatment works.
17. "QA/QC" means quality assurance/quality control.
18. "Regional Administrator" means the Regional Administrator of Region 10 of the EPA, or the authorized representative of the Regional Administrator.
19. "Severe property damage" 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.

20. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit 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.
21. "24-hour composite" sample means a combination of at least 3 discrete samples collected at equal time intervals from the same location, over an 24 hour period. The sample aliquots must be collected and stored in accordance in accordance with procedures prescribed in the most recent edition of *Standard Methods for the Examination of Water and Wastewater*.