with Indian Tribal Governments" (63 FR 27655, May 19, 1998), EPA may not issue a regulation that is not required by statute, that significantly or uniquely affects the communities of Indian tribal governments, and that imposes substantial direct compliance costs on those communities, unless the Federal government provides the funds necessary to pay the direct compliance costs incurred by the Tribal governments. If the mandate is unfunded, EPA must provide OMB, in a separately identified section of the preamble to the rule, a description of the extent of EPA's prior consultation with representatives of affected Tribal governments, a summary of the nature of their concerns, and a statement supporting the need to issue the regulation. In addition, Executive Order 13084 requires EPA to develop an effective process permitting elected and other representatives of Indian tribal governments "to provide meaningful and timely input in the development of regulatory policies on matters that significantly or uniquely affect their communities." Today's action does not significantly or uniquely affect the communities of Indian tribal governments. This action does not involve or impose any requirements that affect Indian Tribes. Accordingly, the requirements of section 3(b) of Executive Order 13084 do not apply to this action.

Authority: 15 U.S.C. 2682, 2684.

List of Subjects

Environmental protection, Hazardous substances, Lead, Reporting and recordkeeping requirements.

Dated: February 19, 1999.

W. Michael McCabe

Regional Administrator, Region III.

[FR Doc. 99–5821 Filed 3–9–99; 8:45 am]

BILLING CODE 6560-50-F

ENVIRONMENTAL PROTECTION AGENCY

[FRL-6307-4]

Final NPDES General Permit for Oil and Gas Exploration, Development and Production Facilities in Cook Inlet, AL (AKG285000)

AGENCY: Environmental Protection

Agency (EPA), Region 10.

ACTION: Notice of final NPDES general

permit.

SUMMARY: The Director, Office of Water, EPA Region 10, is issuing the National Pollutant Discharge Elimination System

(NPDES) General Permit for Cook Inlet, Alaska, pursuant to the provisions of the Clean Water Act, 33 U.S.C. 1251 et seq. The permit authorizes discharges from existing oil and gas exploration, development and production platforms and shore-based facilities in Upper Cook Inlet (north of the Forelands). The permit also authorizes future exploratory operations in Cook Inlet north of the line between Cape Douglas on the west, and Port Chatham on the east. All dischargers covered by this permit fall within the Coastal and Offshore Subcategory of the Oil and Gas Extraction Point Source Category (40 CFR part 435, subparts A and D).

Discharges authorized by this permit include drilling muds and cuttings; produced water; deck drainage; sanitary and domestic wastes; completion, workover, well treatment and test fluids; and miscellaneous discharges. Discharges from facilities in the Onshore Subcategory (40 CFR Part 435, Subpart C), or to wetlands adjacent to the territorial seas and inland coastal waters of Alaska are not authorized by this permit. The permit does not authorize discharges from "new sources," as defined in 40 CFR 122.2.

The existing permit was published in the **Federal Register** at 51 FR 35460 on October 3, 1986, and authorized discharges from oil and gas facilities in Upper Cook Inlet, and from oil and gas exploration wells in federal waters offered for lease by the U.S. Department of the Interior's Minerals Management Service (MMS) in Federal Lease Sales 55 (Gulf of Alaska) and 60 (Cook Inlet) in state waters offered for lease by the State of Alaska in Lease Sales 32, 33, 35, 40, 46A, and 49. The permit issued in 1986 also covered areas offered under state lease sales held during the effective period of the permit. The area of coverage for the permit issued today is not linked to lease sale areas, and covers all state and federal waters in Cook Inlet north of the line between Cape Douglas on the west and Port Chatham on the east.

A total of 23 facilities were covered under the 1986 general permit. Of those 23 facilities, 18 are currently active. All of those permittees have complied with the reissuance application procedures and indicated preference to be covered under this general permit.

FOR FURTHER INFORMATION CONTACT: Ms. Laurie Mann, EPA Region 10, 1200 Sixth Avenue, Seattle, Washington 98101, Telephone: (206) 553–1583, or via e-mail to the following address: mann.laurie@epamail.epa.gov.

SUPPLEMENTARY INFORMATION:

Public Comment

Pursuant to section 402 of the Clean Water Act (CWA), 33 U.S.C. 1342, EPA proposed and solicited comments on NPDES general permit AKG285000 at 60 FR 48796 (September 20, 1995). The public comment period was scheduled to close November 30, 1995, but was extended to January 29, 1996 at 60 FR 6155 (November 30, 1995). Public hearings were held in Anchorage on November 28, 1995, Soldotna on November 29, 1995, and Homer on January 25, 1996.

EPA Region 10 received over 350 letters, petitions and verbal comments from tribal, federal and state governments, companies, non-profit organizations, and individuals. All comments specifically addressing the draft Cook Inlet permit which were submitted during the public comment period were considered during finalization of the permit. Changes have been made from draft permit to the final permit in response to public and governmental comment. All comments, along with the EPA's responses, are summarized in the Response to Comments, which may be obtained from Laurie Mann at the above address, or may be obtained from the EPA Region 10 web site at www.epa.gov/r10earth/ offices/water/ow.htm.

Other Legal Requirements

Ocean Discharge Criteria Evaluation

EPA Region 10 has determined that discharges occurring under the proposed permit are in compliance with section 403 of the Clean Water Act. These discharges will not cause unreasonable degradation as long as the depth-related conditions, discharge restrictions, and environmental monitoring requirements in the permit are met. For example, all discharges are prohibited within the boundaries, or within 1,000 meters of a coastal marsh, river delta, river mouth, and designated Critical Habitat Areas, Areas of Special Attention, National Park, State Game Refuges, and State Game Sanctuaries. The permit also prohibits discharges in Kamishak Bay, Chinitna Bay, and Tuxedni Bay.

Coastal Zone Management Act

The State of Alaska, Office of Management and Budget, Division of Governmental Coordination found this action to be consistent with the approved Alaska Coastal Zone Management Program.

Endangered Species Act

EPA has determined that issuance of the Cook Inlet General Permit will not adversely affect any listed, threatened, or endangered species or designated habitat, and National Marine Fisheries Service (NMFS) and U.S. Fish and Wildlife provided written concurrence with EPA's determination on the proposed NPDES General Permit.

State Water Quality Standards and State Certification

The State of Alaska, Department of Environmental Conservation, has issued a Certificate of Reasonable Assurance that the subject discharges comply with the Alaska State Water Quality Standards. The EPA has considered Alaska's antidegradation policy (18 Alaska Administrative Code (AAC 70.101(c)). The reissuance of this permit will not result in additional pollutant loading to the receiving water; therefore this action complies with the State's antidegradation policy.

Executive Order 12866

EPA has determined that this general permit is not a "significant regulatory action" under the terms of Executive Order 12866 and is therefore not subject to OMB review.

Paperwork Reduction Act

The information collection requirements of this permit were previously approved by the Office of Management and Budget (OMB) under the provisions of the Paperwork Reduction Act, 44 U.S.C. 3501 et seq., and assigned OMB control numbers 2040–0086 (NPDES permit application) and 2040–0004 (discharge monitoring reports).

Regulatory Flexibility Act

The Regulatory Flexibility Act (RFA), 5 U.S.C. 601 *et seq.*, requires that EPA prepare a regulatory flexibility analysis for rules subject to the requirements of 5 U.S.C. 553(b) that have a significant impact on a substantial number of small entities. The permit issued today, however, is not a "rule" subject to the requirements of 5 U.S.C. 553(b) and is therefore not subject to the Regulatory Flexibility Act.

Unfunded Mandates Reform Act

Section 201 of the Unfunded Mandates Reform Act (UMRA), Public Law 104–4, generally requires Federal agencies to assess the effects of their "regulatory actions" (defined to be the same as "rules" subject to the RFA) on tribal, state, and local governments and the private sector. The permit issued today, however, is not a "rule" subject to the RFA and is therefore not subject to the requirements of UMRA.

Appeal of Permit

Any interested person may appeal the Cook Inlet General NPDES in the Federal Court of Appeals in accordance with Section 509(b)(1) of the Clean Water Act. This appeal must be filed within 120 days of permit issuance. The date of permit issuance is defined at 40 CFR 23.2 to be at 1:00 PM eastern time, two weeks after the date of publication in the **Federal Register**.

Authorization To Discharge Under the National Pollutant Discharge Elimination System for Oil and Gas Exploration, Development and Production

In compliance with the provisions of the Clean Water Act, 33 U.S.C. 1251 *et seq.*, the "Act", the following discharges are authorized in accordance with this National Pollutant Discharge Elimination System ("NPDES").

Discharge	Discharge No.
Drilling Mud & Cuttings	01
Deck Drainage	02
Sanitary Wastes	03
Domestic Wastes	04
Desalination Unit Wastes	05
Blowout Preventer Fluid	06
Boiler Blowdown	007
Fire Control System Test Water	008
Non-Contact Cooling Water	009
Uncontaminated Ballast Water	010
Bilge Water	011
Excess Cement Slurry	012
Mud, Cuttings, Cement at	
Seafloor	013
Waterflooding Discharges	014
Produced Water	015
Completion Fluids	016
Workover Fluids	017
Well Treatment Fluids	018

Discharge	Discharge No.
Test Fluids	019

from oil and gas development and production facilities to state waters north of the Forelands in Upper Cook Inlet, and from exploratory facilities to all state and federal waters in Cook Inlet north of the line between Cape Douglas (at 58°51' North, 153° 15' West) on the west and Port Chatham (at 59°13' North, 151° 47′ West) on the east (Figure 1). These development and production facilities are classified in the Coastal Subcategory of the Oil and Gas Extraction Point Source Category, as defined in 40 CFR Part 435, Subpart D. Exploratory facilities are classified in the Offshore and Coastal Subcategories as defined in 40 CFR Part 435, Subparts A and D. Discharges must be in accordance with effluent limitations, monitoring and reporting requirements, and other conditions set forth in Parts I through VII herein.

Permittees who are not granted coverage under this general permit as described in Part I are not authorized to discharge to the specified waters unless an individual permit has been issued to the Permittee by EPA, Region 10. Discharges from facilities in the Onshore Subcategory (40 CFR Part 435, Subpart C), or to wetlands adjacent to the territorial seas and inland coastal waters of the State of Alaska, are not authorized under this permit.

During the effective period of this permit, operators authorized to discharge under the general permit are authorized to discharge the enumerated pollutants subject to the restrictions set forth herein. This permit does not authorize the discharge of any waste streams, including spills and other unintentional or non-routine discharges of pollutants, that are not part of the normal operation of the facility, or any pollutants that are not ordinarily present in such waste streams.

The facilities listed below are authorized to discharge under this permit. The conditions of the previous permit become null and void upon the effective date of this permit.

Operator	Facility	NPDES Permit No.
Unocal	Granite Point Production Facility	AKG285001.
Unocal	Trading Bay Treatment Facility	AKG285002.
Cross Timbers	East Foreland Treatment Facility	AKG285003.
Unocal	Platform Anna	AKG285004.
Unocal	Platform Baker	AKG285005.
Unocal	Platform Bruce	AKG285006.
Unocal	Platform Dillon	AKG285007.
Unocal	King Salmon Platform	AKG285008,
Unocal	Dolly Varden Platform	AKG285009.

Operator	Operator Facility			
Marathon	Spark Platform Platform A (Tyonek Platform) Platform A	AKG285010. AKG285011. AKG285012.		
Cross Timbers	Platform C Spurr Platform Granite Point Platform Consider Platform	AKG285013. AKG285014. AKG285015. AKG285016.		
UnocalARCOUnocal	Grayling Platform	AKG285016. AKG285017. AKG285018–INACTIVE. AKG285019.		
Marathon	Steelhead (Blowout Relief Well) Sturgeon (Exploratory Well) Sunfish (Exploratory Well) North Forelands (Exploratory Well)	AKG285020-INACTIVE. AKG285021-INACTIVE. AKG285022-INACTIVE. AKG285023-INACTIVE.		

This permit may be modified or revoked at any time if, on the basis of any new data, the Director determines that this information would have justified the application of different permit conditions at the time of issuance. Permit modification or revocation will be conducted in accordance with 40 CFR, §§ 122.62, 122.63, and 122.64. In addition to any other grounds specified herein, this permit shall be modified or revoked at any time if, on the basis of any new data, the Director determines that continued discharges may cause unreasonable degradation of the marine environment.

This permit does not authorize discharges from "new sources" as defined in 40 CFR 122.2.

This permit shall become effective on April 1, 1999.

This permit and the authorization to discharge shall expire at midnight on April 1, 2004.

Signed this 25th day of February, 1999.

Randall F. Smith,

Director, Office of Water, U.S. Environmental Protection Agency, Region 10.

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Figure 1. Area of Coverage: Cook Inlet Permit AKG285000

I. Notification Requirements

- A. New Exploration Facilities
- 1. Requests To be Covered by General Permit

Written request to be covered by this permit must be provided to EPA at least 60 days prior to initiation of discharges. The request must include the following information:

- a. Name and address of the Permittee.
- b. General location (lease and block numbers) of operations and discharges.
- c. Any discharge or operating conditions subject to special monitoring requirements (Part III.B.3.).

2. Authorization To Discharge

The Permittee is not authorized to discharge without written notification from EPA that operations at the discharge site have been assigned an NPDES permit number under this general permit. A permit number cannot be assigned until the following information is received. This information must be provided to EPA at least 30 days prior to initiation of discharges.

- a. Name and location of discharge site, including lease block number and latitude and longitude.
- b. Range of water depths (below mean lower low water) in the lease block(s), and the depth(s) of discharge(s).
- c. Initial date(s) and expected duration of operations.

3. Commencement of Discharges

The Permittee must notify EPA during the 7-day period prior to initiation of discharges from the platform. The notification must include the exact, final latitude and longitude and water depth of the discharge site, as well as written certification that a Best Management Practices Plan (*Part III.I.1*) is complete, on site and available to the Agency upon request. This notification may be oral or in writing; if notification is given orally, written confirmation must follow within 7 days.

B. New Discharges of Produced Water

1. Eligibility

Existing facilities are eligible to obtain authorization to discharge produced water subject to the interim produced water limitations specified at *Part III.F.1.* of the permit when produced water discharge is planned, but has not been authorized at *Part I.C.2.* of this permit.

2. Requests To Be Covered by General Permit

Written request to obtain authorization to discharge produced water subject to the interim limitations specified in *Part III.F.* must be provided to EPA at least 60 days prior to initiation of discharge. Facilities wishing to obtain such authorization within 60 days of the final effective date of this permit need not comply with the 60-day requirement, but must provide the request as soon as possible prior to initiation of discharge. The request must include the following information:

- a. Description of eligibility (*Part*
- b. Name and address of the Permittee.
- c. Name of facility.
- d. Specific location (including latitude and longitude, and section, range, and township) of operations and discharges.
- e. Water depth at site and depth of discharge(s) with respect to MLLW.
 - f. Daily produced water flow rate.
- g. Date of commencing discharge and expected duration of operations.

3. Authorization

The Permittee is not authorized to discharge produced water subject to the interim produced water limitations without written notification from EPA.

4. Commencement of Discharges

The Permittee must notify EPA within the 7-day period prior to initiation of produced water discharges subject to the interim limitations.

C. Existing Facilities

1. Discharges 001-014 and 016-019

Facilities authorized to discharge under the 1986 Cook Inlet General NPDES permit are automatically authorized to discharge by this general permit as of its effective date. These facilities are listed above. These Permittees need not submit a formal request for authorization to discharge prior to commencement of discharges under this permit.

2. Discharge 015

The following facilities are automatically authorized to discharge

produced water by this general permit as of its effective date: Granite Point Production Facility, Trading Bay Treatment Facility, East Foreland Treatment Facility, Anna, Baker, Bruce, Dillon, and Platform A (Tyonek). These Permittees need not submit a formal request for authorization to discharge prior to commencement of discharges under this permit.

D. All Facilities Covered by the Permit

1. Duty To Reapply and/or Notice of Intent To Continue Activity

If the Permittee wishes to discharge under the authority of this permit after its expiration date, the Permittee must submit a notice of intent to EPA to do so. The Notice of Intent must be submitted at least 180 days before the expiration date of this permit. An NPDES permit application (EPA Form 3510-2C, Wastewater Discharge Information, Consolidated Permits Program (revised February 1985)) constitutes a complete Notice of Intent. Timely receipt by EPA of a complete Notice of Intent will qualify the Permittee for an administrative extension of its authorization to discharge under this permit pursuant to 5 USC Section 558(c).

2. Termination of Discharges

The Permittee must notify EPA within 30 days following cessation of discharges from the discharge site. The notification may be provided in a Discharge Monitoring Report (DMR) or under separate cover.

3. Submission of Requests To Be Covered and Other Reports

Reports and notifications required herein must be submitted to the following addresses.

All requests for coverage: Director, Water Division, US EPA, Region 10, Attn: NPDES Permits Unit, OW–130, 1200 6th Avenue, Seattle, Washington 98101, Phone: (206) 553–1583.

All monitoring reports and notifications of non-compliance: Director, Water Division, US EPA, Region 10, NPDES Compliance Unit, OW–133, 1200 6th Avenue, Seattle, Washington 98101, Phone: (206) 553–1846.

For discharges to state waters only: Alaska Department of Environmental Conservation, Attn: Watershed Management Section, 555 Cordova Street, Anchorage, AK 99501.

E. Changes From Coverage Under General Permit To Coverage Under Individual Permit

1. The Director may require any permittee discharging under the

authority of this permit to apply for and obtain an individual NPDES permit when any one of the following conditions exist:

a. The discharge(s), including stormwater, is a significant contributor of pollution.

b. The Permittee is not in compliance with the conditions of this general permit.

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

d. Effluent limitation guidelines are promulgated for point sources covered by this permit.

by this perimi.

e. The point sources covered by this permit no longer:

(1) Involve the same or substantially similar types of operations,

(2) Discharge the same types of wastewaters,

(3) Require the same effluent limitations or operating conditions, or

(4) Require the same or similar monitoring.

f. In the opinion of the Director, the discharges are more appropriately controlled under an individual permit than under a general NPDES permit.

2. The Director may require any permittee authorized by this permit to apply for an individual NPDES permit only if the Permittee has been notified in writing that an individual permit application is required.

3. Any permittee authorized by this permit may request to be excluded from the coverage of this general permit by applying for an individual permit. The owner or operator must submit an application together with the reasons supporting the request to the Director no later than 90 days after the effective date of the permit.

4. When an individual NPDES permit is issued to a permittee otherwise subject to this general permit, the applicability of this general permit to that owner or operator is automatically terminated on the effective date of the individual permit.

II. Prohibited Areas of Discharge and Depth-Related Requirements

Discharges from operations in Cook Inlet are prohibited in the cases listed below. Permit applicants should contact EPA if they are uncertain whether or not their discharges will be located in a prohibited area.

A. 10 Meter Isobath

New dischargers (as defined at 40 CFR 122.2) are prohibited from discharging produced water shoreward of the 10 m isobath (as measured from mean lower low water).

B. 5 Meter Isobath

The discharge of all effluents is prohibited shoreward of the 5 m isobath (as measured from mean lower low water) including intertidal areas.

C. Geographic Restrictions

All discharges are prohibited in the following areas:

1. Shoreward of the 5.5 m isobath adjacent to either (1) the Clam Gulch Critical Habitat Area (Sales 32, 40, 46A, and 49) or (2) from the Crescent River northward to a point one-half mile north of Redoubt Point (Sales 35 and 49).

2. Within the boundaries or within 1,000 m of a coastal marsh, river delta, river mouth, designated Area Meriting Special Attention, State Game Refuge, State Game Sanctuary, Critical Habitat Area, or National Park. (The seaward edge of a coastal marsh is defined as the seaward edge of emergent wetland vegetation.)

The following Areas Meriting Special Attention (AMSA), State Game Refuges (SGR), State Game Sanctuaries (SGS), Critical Habitat Areas (CHA), and National Park are located in the area covered by this permit:

Palmer Hay Flats SGR
Goose Bay SGR
Potter Point SGR
Susitna Flats SGR
McNeil River SGS
Redoubt Bay CHA
Anchorage Coastal Wildlife Refuge
Trading Bay SGR
Kalgin Island CHA
Clam Gulch CHA
Kachemak Bay CHA
Lake Clark National Park
Port Graham/Nanwalek AMSA

The legal descriptions of state specialty areas are found in Alaska Statues Title 16, Chapter 20. The present boundaries of these state special areas are described in "State of Alaska Game Refuges, Critical Habitat Areas, and Game Sanctuaries," Alaska Department of Fish and Game, Habitat Division, March 1991. Further information can be obtained from the Alaska Department of Fish and Game, Habitat Division, Regional Supervisor, 333 Raspberry Road, Anchorage, Alaska 99518–1599; phone (907) 267–2284 or (907) 267–2342.

3. In Kamishak Bay west of line from Cape Douglas to Chinitna point.

4. In Chinitna Bay inside of the line between the points on the shoreline at latitude 59°52′45″ N, longitude 152°48′18″ W on the north and latitude 59°46′12″ N, longitude 153°00′24″ W on the south (Figure 1).

5. In Tuxedni Bay inside of the lines on either side of Chisik Island (Figure 1).

a. From latitude 60°04′06″ North, longitude 152°34′12″ West on the mainland to the southern tip of Chisik Island (latitude 60°05′45″ North, longitude 152°33′30″ West).

b. From the point on the mainland at latitude 60°13′45″ North, longitude 152°32′42″ West to the point on the north side of Snug Harbor on Chisik Island (latitude 60°06′36″ North, longitude 152°32′54″ West).

III. Effluent Limitations and Monitoring Requirements

The operators must limit discharges as specified in the permit below. All figures represent maximum effluent limits unless otherwise indicated. The Permittee must comply with the following effluent limits at all times unless provided for by this permit (e.g., unanticipated bypass) regardless of the frequency of monitoring or reporting required by other provisions of this permit.

- A. Representative Sampling (Routine and Non-Routine Discharges)
- 1. The operators must collect all effluent samples from the effluent stream prior to discharge into the receiving waters. Samples and measurements must be representative of the volume and nature of the monitored discharge.
- 2. 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 operators must collect additional samples at the appropriate outfall(s), and analyze them for the parameters appropriate to that waste stream, limited in *Parts III.B.-III.I.* of this permit, 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.
- 3. The Permittee must collect such additional samples as soon as possible after the spill or discharge. The samples must be analyzed in accordance with the monitoring requirements in *Parts III.B.-III.I.* of this permit. In the event of an anticipated bypass, as defined in *Part V.G.* of this permit, the Permittee must collect and analyze additional samples as soon as the bypassed effluent reaches the outfall. The Permittee must report all additional monitoring in accordance with *Part IV.D.*
- B. Drilling Mud, Drill Cuttings (Discharge 001)

1. Effluent Limitations

In addition to the restrictions set out in Parts III.A., III.B.2–3. and IV, the Permittee must comply with the following effluent limitations and monitoring requirements.

Effluent characteristic	Disabausa limita	Mo	nitoring requiremer	nts
	Discharge limita- tion	Measurement frequency	Sample type/ method	Reported values
Flow Rate ¹ (Water Depth):				
>40 m >20–40 m 5–20 m <5 m	750 bbl/hr 500 bbl/hr	Continuous during discharge	Estimate	Maximum hourly rate.
Total volume	See note 2	Daily	Estimate	Monthly total.
Toxicity of drilling mud	30,000 ppm SPP minimum.	Monthly & End-of-Well	Grab/Drilling Fluids Toxicity Test.	Part III.B.2.e.
Free oil	No discharge	Daily & before bulk discharges	Grab/Static Sheen Test Part III.B.2.d.	Number of days sheen observed.
Oil-based fluids, Synthetic based fluids, Enhanced Mineral Oil- based fluids.	No discharge	N/A	N/A	N/A.
Diesel oil	No discharge	End-of-well, and at failure of static sheen.	Grab/GC Part III.B.2.c.	Presence or absence.
Metals	N/A	Once per mud system	Part III.B.2.f	Part III.B.2.f.

Effluent	Discharge	Monitoring requirements			
	limitation	Discharge limitation Measurement frequency	Sample type/ method	Reported values	
Mercury & cadmium in barite	1 mg/kg Hg 3 mg/kg Cd	Once per well	Part III.B.2.g	mg/kg dry wt.	

1 Maximum flow rate of total muds and cuttings includes predilutant water; water depths are measured from mean lower low water.

²Report total volumes for all types of operations (exploratory, production and development). For exploratory operations, drilling discharges are limited to no more than five wells at a single drilling site. If a step-out or sidetracked well is drilled from a previously drilled hole, the step-out well is counted as new well. Dual lateral, which involve drilling a primary well bore and kicking off a second leg, are considered to be one well. Requests to discharge from more than five wells per site will be considered by the Water Division Director on a case-by-case basis.

a. *Mineral oil pills*. The discharge of residual amounts of mineral oil pills (mineral oil plus additives) is authorized by the permit provided that the mineral oil pill and at least a 50 bbl buffer of drilling fluid on either side of the pill are removed from the circulating drilling fluid system and not discharged to waters of the United States. If more than one pill is applied to a single well, the previous pill and buffer must be removed prior to application of a subsequent pill.

(2) Residual mineral oil concentration in the discharged mud must not exceed 2% volume/volume (API Recommended Practice 13–1, 1990) (see Part III.B.2.c.). If drilling mud containing residual mineral oil pill (after pill and buffer removal) is discharged, the following information must be reported within 60

days of the discharge:

(a) Dates of pill application, recovery,

and discharge;

(b) Results of the Drilling Fluids Toxicity Test on samples of the mud before each pill is added and after removal of each pill and buffer (taken when residual mineral oil pill concentration is expected to greatest);

(c) Name of spotting compound and

mineral oil product used;

(d) Volumes of spotting compound, mineral oil, water, and barite in the pill; (e) Total volume of mud circulating

(e) Total volume of mud circulating prior to pill application, volume of pill formulated, and volume of pill circulated.

(f) Volume of pill recovered, volume of mud buffer recovered, and volume of mud circulating after pill and buffer recovery;

(g) Percent recovery of the pill

(include calculations);

(h) Estimated concentrations of residual spotting compound and mineral oil in the sample of mud discharged, as determined from amounts added and total mud volume circulating prior to pill application;

(i) Measured oil content of the mud samples, as determined by the API retort

method; and

(j) An itemization of other drilling fluid components and specialty additives contained in the discharged mud with concentrations reported in gal/bbl or lb/bbl.

2. Monitoring and Reporting Requirements

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures are specified here or elsewhere in this permit. Representative sampling requirements are discussed in *Part III.A.*

a. Chemical Inventory. For each mud system discharged, the Permittee must maintain a precise chemical inventory of all constituents added downhole, including all drilling mud additives used to meet specific drilling requirements. The Permittee must maintain these records for each mud system for a period of five years, and must make these records available to the EPA upon request.

b. *End of well reports*. End of well reports contain the information required in parts c–f below, and must be submitted within 90 days of well

completion.

c. Diesel oil. 1. Compliance with the limitation on diesel oil must be demonstrated by gas chromatography (GC) analysis of drilling mud collected from the mud used at the greatest well depth ("end-of-well" sample) and of any muds or cuttings which fail the daily Static Sheen Test (Part III.B.2.d. below). In all cases, the determination of the presence or absence of diesel oil must be based on a comparison of the GC spectra of the sample and of diesel oil in storage at the facility. The method for GC analysis must be that described in 'Analysis of Diesel Oil in Drilling Fluids and Drill Cuttings' (CENTEC, 1985) available from EPA, Region 10. Gas chromatography/mass spectrometry (GC/MS) may be used if an instance should arise where the operator and EPA determine that greater resolution of the drilling mud "fingerprint" is needed for a particular drilling mud sample. 2. Reporting. The results and raw

data, including the spectra, from the GC analysis must be provided to the Director by written report (1) within 30 days of a positive result with the Static Sheen Test when a discharge has occurred, or (2) for the end-of-well analysis, within 90 days of well completion.

d. Static Sheen Test. 1. The Permittee must perform the Static Sheen Test on separate samples of drilling muds and cuttings, as required in Appendix 1 to Subpart A of 40 CFR Part 435. Samples must be collected on each day of discharge and prior to bulk discharges.

2. The test must be conducted in accordance with "Approved Methodology: Laboratory Sheen Tests for the Offshore Subcategory, Oil and Gas Extraction Industry" which is Appendix 1 to Subpart A of 40 CFR Part 435. For discharge below ice or during periods of unstable or broken ice, water temperature for the Static Sheen Test must approximate surface water temperatures at ice breakup.

- 3. Whenever muds or cuttings fail the Static Sheen Test and a discharge has occurred in the past 24 hours, the Permittee is required to analyze an undiluted sample of the material which failed the test to determine the presence or absence of diesel oil. The determination and reporting of results must be performed according to *Part III.B.2.c.* above.
- e. Toxicity test for drilling fluids. 1. If no mineral oil is used (Part III.B.1.a.), a toxicity test must be conducted monthly to determine compliance with the drilling fluid toxicity limit. At the end-of-well, a sample must be collected for toxicity testing. This sample can also serve as the monthly monitoring sample.
- 2. The Permittee must complete a minimum of two toxicity tests on each mud system where a mineral oil lubricity or spotting agent is used. One sample must be collected before applying the pill and one after removing the pill (see Part *III.B.1.a.(2)*). The "after pill" sample test results can be used as the monthly monitoring sample. If the well is completed within 96 hours of collection of the "after pill" drilling mud sample, then these test results can also serve as the end-of-well test.
- 3. The testing and reporting of drilling fluid toxicity test results must be in accordance with Appendix 2 to Subpart A of 40 CFR Part 435 (Drilling Fluids

- Toxicity Test) using either the full or partial toxicity test. If the partial toxicity test shows a failure, however, all testing of future samples from that well shall be conducted using the full toxicity test method to determine the 96-hour LC50. Results of drilling fluid toxicity tests (in terms of pass/fail or 96-hr LC50 value) must be reported on the DMRs, and complete copies of the test reports must be attached to the DMR.
- f. Metals analysis. 1. The Permittee shall analyze each discharged mud system for the following metals: barium, cadmium, chromium, copper, mercury, zinc, and lead. Analyses for total recoverable concentrations shall be conducted and reported for each metal utilizing the methods specified in 40 CFR Part 136. The results shall be reported in "mg/kg of whole mud (dry weight)" and the moisture content (percent by weight) of the original drilling mud sample shall be reported.
- 2. Samples shall be collected when the residual mineral oil concentration is at its maximum value (see *Part III.B.1.a.*). If no mineral oil is used, the analysis shall be done on a drilling mud sample collected from the mud system used at the greatest well depth. All samples shall be collected prior to any predilution. Each drilling mud sample shall be of sufficient size to allow for both the chemical testing described here and toxicity testing described above in Part III.B.2.e.
- g. Mercury and cadmium content of barite. 1. The Permittee must analyze a representative sample of stock barite once prior to drilling each well and submit the results for total mercury and total cadmium in the DMR upon well completion. Analyses must be conducted by absorption spectrophotometry and results expressed as mg/kg (dry weight) of barite.
- 2. If more than one well is drilled at a site, new analyses are not required for subsequent wells if no new supplies of barite have been received since the previous analysis. In this case, the DMR should state that no new barite was received since the last reported analysis. Operators may provide certification, as documented by the supplier(s), that the barite meets the above limits. The concentration of mercury and cadmium in stock barite must be reported on the DMR as documented by the supplier.

- 3. Environmental Monitoring Requirements
- a. Within 4000 m of sensitive areas. Monitoring of the fate and effects of drilling muds and/or cuttings discharges are required for new exploration facilities when the location of the discharges is within 4000 m of an area such as a coastal marsh, river delta, river mouth, designated AMSA, game refuge, game sanctuary, critical habitat area, or National Park. Discharges are prohibited within 1000 m of sensitive areas (see Part II.C.2.).
- b. Environmental Monitoring Study. If monitoring is required by Part III.B.3.a., the Permittee must submit a plan of study for environmental monitoring to EPA for review with, or prior to, submission of a written request for authorization to discharge (Parts I.A. and I.B.).
- c. *Objectives*. The objectives of the environmental monitoring must be to:
- (1) Monitor for discharge-related impacts,
- (2) Determine statistically significant changes in sediment pollutant concentrations and sediment toxicity with time and distance from the discharge,
- (3) Monitor for discharge related impacts to the benthic community,
- (4) Assess whether any impacts warrant an adjustment of the monitoring program, and
- (5) Provide information for permit reissuance.
- d. Requirements. The monitoring must include, but not be limited to, relevant hydrographic, sediment hydrocarbon, and heavy metal data from surveys conducted before and during drilling mud disposal and up to at least one year after drilling operations cease. The monitoring plan must address:
 - (1) The monitoring objectives,
- (2) Appropriate null and alternate test hypotheses,
- (3) A statistically valid sampling design.
- (4) All monitoring procedures and methods,
- (5) A quality assurance/quality control program,
- (6) A detailed discussion of how data will be used to meet, test and evaluate the monitoring objectives, and
- (7) A summary of the results of previous environmental monitoring as they apply to the proposed program plan.

- e. Reporting requirements. (1) The Permittee must analyze the data and submit a draft report within 180 days following the completion of sample collection. The report must address the environmental monitoring objectives by using appropriate descriptive and analytical methods to test for and to describe any impacts of the effluent on sediment pollutant concentrations, sediment quality, water quality and/or the benthic community. The report must include all relevant quality assurance/ quality control (QA/QC) information, including but not limited to instrumentation, laboratory procedures, detection limits/precision requirements of the applied analyses, and sample collection methodology.
- (2) The EPA will review the draft report in accordance with the environmental monitoring objectives and evaluate it for compliance with the requirements of the permit. If revisions to the report are required, the Permittee must complete them and submit the final report to EPA within two months of the Director's request. The Permittee will be required to correct, repeat and/or expand environmental monitoring programs which have not fulfilled the requirements of the permit.
- f. Modification of Monitoring Program. The monitoring program may be modified if EPA determines that it is appropriate. The modified program may include changes in sampling stations, sampling times, and/or parameters.
- g. Exemption. Region 10 may grant a written exemption to this requirement if the Permittee can satisfactorily demonstrate that information on the fate and effects of the discharge is available and/or the discharge will not have significant impacts on the area of biological significance. An exemption to post-drilling monitoring will be granted if no impact was indicated during drilling. An exemption request must be submitted to the EPA for review with, or prior to, submission of a written request for authorization to discharge (Parts I.A. and I.B.).
- C. Deck Drainage (Discharge 002)

1. Effluent Limitations

In addition to the restrictions set out in Parts III.A., III.C.2–5. and IV, the Permittee must comply with the following effluent limitations and monitoring requirements.

	Discharge		nitoring requirements	
Effluent characteristic	limitation	Measurement frequency	Sample type/ method	Reported values
Flow rate (MGD)	N/A	Monthly	Estimate	Monthly avg.

	Discharge limitation Measurement f	Monitoring requirements		
		Measurement frequency	Sample type/ method	Reported values
Free oil	No discharge	Daily, during discharge	receiving water or Static Sheen. 1	Number of days sheen observed.
Whole effluent toxicity. ²	N/A	Once during the first year the Permittee is covered by the permit. ³	Part III.F.7.b	TU _c . ⁴

¹ If discharge occurs during broken or unstable ice conditions, or during stable ice conditions, the Static Sheen Test must be used (see Appendix 1 to 40 CFR part 435, subpart A).

²Contaminated deck drainage must be processed through an oil-water separator prior to discharge and samples for that portion of the deck drainage collected from the separator effluent must be sampled for WET testing.

⁴ With the final report for each test, the following must also be reported: date and time of sample, the type of sample (i.e., rainfall or snowmelt), estimate of daily flow and basis for the estimate (e.g., turbine meters, monthly precipitation, estimated washdown).

2. Drains

Area drains for either washdown or rainfall that may be contaminated with oil and grease must be separated from those area drains that would not be contaminated. The contaminated deck drainage must be processed through an oil-water separator prior to discharge and samples for that portion of the deck drainage collected from the separator effluent must be tested for sheen.

3. Commingled Wastestreams

If deck drainage is commingled with produced water, then this discharge

must be considered produced water for monitoring purposes (*Part III.F.*). The estimated deck drainage flow rate must be reported in the comment section of the DMR.

4. Unstaffed Facilities

Monitoring of unstaffed facilities is not required. Written notification that a facility is no longer staffed must be provided to EPA prior to terminating monitoring requirements.

5. Monitoring Requirements

Monitoring must be conducted according to test procedures approved

under 40 CFR 136, unless other test procedures are specified here or elsewhere in this permit. Representative sampling requirements are discussed in *Part III.A.*

D. Sanitary Wastes and Domestic Wastes (Discharges 003, 004)

1. Effluent Limitations

In addition to the restrictions set out in Parts III.A., III.D.2–3. and IV, the Permittee must comply with the following effluent limitations and monitoring requirements.

Effluent characteristic	D'a da a ma	Mo	nitoring requiremen	nts
	Discharge limitation	Measurement frequency	Sample type/ method	Reported values
All Discharges (003, 004):				
Flow Rate	NA	Monthly	Estimate	Monthly Average.
Floating solids	No discharge	Daily	Observation 1	Number of days solids observed.
Foam	No discharge	Daily	Observation 1	Number of days foam observed.
Sanitary Wastes (003) All Treatment Systems:				
Fecal Coliform		Monthly for one year, beginning the first month of permit coverage.	Grab	Daily Maximum Number of people on board.
Total Residual Chlorine (TRC) mg/l.	19 mg/l 9 mg/l	Monthly	Grab	Daily Maximum Monthly average.
Sanitary Wastes (003) ² M10 MSD and MSD/Biological Treatment Units:				, ,
Total Residual Chlorine	As close as possible to, but no less than,.	Monthly	Grab	Concentration in mg/l.
(TRC)(mg/l)				
BOD ³ (mg/l)	60 mg/l	Monthly	Grab	Daily Maximum. Monthly Average.
TSS 3 (mg/l)		Monthly	Grab	Daily Maximum. Monthly Average.
Sanitary Wastes(003) ² M9IM MSD and MSD/Biological Treatment Units:				

³Sample must be collected during a significant rainfall or snowmelt. If discharge of deck drainage separate from produced water is initiated after the first year of the permit, sampling must occur during the year following the initiation of separate deck drainage discharge.

	Discharge	Mo	nitoring requiremen	nts
Effluent characteristic	Discharge limitation	Measurement frequency	Sample type/ method	Reported values
BOD ³ (mg/l)	60 mg/l	Monthly	Grab	Daily Maximum. Monthly Average.
TSS ³ (mg/l)	67 mg/l 51 mg/l	Monthly	Grab	Daily Maximum. Monthly Average.
Sanitary Wastes(003) ² M10 Biological Treatment Units:				, ,
Floating solids	No discharge	Daily	Observation 1	Number of days solids observed.
Total Residual Chlorine	As close as possible to, but no less than,	Monthly		Concentration in mg/l.
(TRC) (mg/l)	1 mg/l.			
BOD ³ (mg/l)	60 mg/l 30 mg/l	Monthly	Grab	Daily Maximum. Monthly Average.
TSS 3, 4 (mg/l)	60 mg/l	Monthly	Grab	Daily Maximum.
	30 mg/l	-		Monthly Average.
Sanitary Wastes(003) ² M9IM Biological Treatment Units:	-			-
Floating solids	No discharge	Daily	Observation 1	Number of days solids observed.
BOD³ (mg/l)	90 mg/l 48 mg/l	Monthly	Grab	Daily Maximum. Monthly Average.
TSS ^{3, 4} (mg/l)	108 mg/l	Monthly	Grab	Daily maximum.
•	56 mg/l			Monthly Average.

¹Permittee must monitor by observing the surface of the receiving water in the vicinity of the outfall(s) during daylight at the time of maximum estimated discharge. For domestic waste, observations must follow either the morning or midday meal.

Samples collected to determine the TSS value of the intake water must be taken on the same day, during the same time period that the effluent sample is taken. Intake water samples must be taken at the point where the water enters the facility prior to mixing with other flows. Influent samples must be taken with the same frequency that effluent samples are taken.

2. Discharge Below Water Surface

Domestic and sanitary wastes must be discharged below the water surface.

3. Monitoring Requirements

Monitoring must be conducted according to test procedures approved under 40 CFR 136, unless other test procedures are specified here or elsewhere in this permit. Representative sampling requirements are discussed in Part II.B.

Fecal Coliform Monitoring. Permittees must submit a facility specific mixing

zone application to ADEC based on the first 12 months monitoring data within 18 months after the effective date of the permit (or within 18 months after commencement of discharge for new dischargers).

E. Miscellaneous Discharges (Discharges 005–014)

1. Effluent Limitations

In addition to the restrictions set out in Parts III.A., III.E.2–4, and IV, the discharge of desalination unit wastes (005); blowout preventer fluid (006); boiler blowdown (007): fire control system test water (008); non-contact cooling water (009); uncontaminated ballast water (010); bilge water (011); excess cement slurry (012); mud, cuttings, cement at the seafloor (013); and waterflooding (014) must comply with the following effluent limitations and monitoring requirements.

	Discharge	Monitoring requirements		
Effluent characteristic	limitation	Measurement frequency	Sample type/ method	Reported values
Blowout Preventer, Excess Cement Slurry, Waterflooding Muds, Cuttings & Cement at Seafloor, Ballast, Bilge:				

² In cases where sanitary and domestic wastes are mixed prior to discharge, and sampling of the sanitary waste component stream is infeasible, the discharge may be sampled after mixing. In such cases, the discharge limitations for sanitary wastes must apply to the mixed waste stream.

³The numeric limits for BOD and TSS apply only to discharges to state waters.

⁴The TSS limitation for biological treatment units is a net value. The net TSS value is determined by subtracting the TSS value of the intake water from the TSS value of the effluent. Report the TSS value of the intake water on the comment section of the DMR. For those facilities that use filtered water in the biological treatment units, the TSS of the effluent may be reported as the net value.

	Discharge limitation Measurement frequency	Monitoring requirements			
		Sample type/ method	Reported values		
Free Oil	No discharge	Once/discharge for discharges lasting < 24 hrs. Once/24-hrs for discharges lasting > 24 hours	Visual/Sheen on receiving water ¹ .	Number or days sheen is observed.	
Waterflooding, Non-Contact Cooling Water, Desalination Wastestreams: Chemical Inventory	N/A	Annual	Part III.E.2	Part III.E.2.	

¹For Uncontaminated Ballast Water (010) and Bilge Water (011) only: uncontaminated ballast and bilge water must be processed through an oil-water separator prior to discharge. If discharge of bilge water occurs during broken, unstable, or stable ice conditions, the sample type/method used to determine compliance with the no free oil limitation must be "Grab Static Sheen Test" (Appendix 1 to Subpart A of 40 CFR Part 435). For discharges above stable ice, below ice, to unstable or broken ice, a water temperature that approximates surface water temperatures after breakup must be used.

2. Chemical Inventory

The Permittee must maintain an inventory of the type and quantity of chemicals (other than fresh or seawater) added to waterflooding, non-contact cooling water and desalination systems. The inventory(ies) must be submitted annually. The annual inventories must be assembled for the calendar year, and must be submitted to the EPA within 90 days of the completion of the calendar year.

3. Commingled Wastestreams

If excess waterflood water is added to the produced water discharge in order to minimize the possibility of line freezing, then this discharge must be considered produced water for monitoring purposes. The estimated waterflood flow rate must be reported in the comment section of the DMR.

4. Monitoring Requirement

Monitoring must be conducted according to test procedures approved

under 40 CFR 136, unless other test procedures are specified here or elsewhere in this permit. Representative sampling requirements are discussed in Part III.A.

F. Produced Water (Discharge 015)

1. Effluent Limitations

In addition to the restrictions set out in Parts III.A., III.F.2–7., and IV, the Permittee must comply with the following effluent limitations and monitoring requirements.

	Disabassa	Mo	onitoring requirements		
Effluent characteristic	Discharge limitation	Measurement frequency	Sample type/ method	Reported values	
All Locations:					
Flow rate (MGD)		Weekly	Estimate	Monthly Average.	
Produced sands	No discharge			-	
pΗ					
Flow rate <1mgd	6–9	Monthly	Grab	Daily Max and Min.	
Flow rate >1mgd	6–9	Weekly	Grab	Daily Max and Min.	
Cadmium &	N/A	Monthly for one year, beginning	Grab	Daily Max.	
Mercury		the first month of permit coverage.	Part III.F.7.c.		
Individual Dischargers:		crugo.			
Granite Point Production Facil-					
ity:					
AKG285001	42 mg/l daily	Weekly	Grab or average	Daily Maximum.	
Oil and Grease	max.		of 4 samples	Monthly Average.	
	29 mg/l monthly		taken within	,	
	avg		24 hour period.		
Copper		Monthly	Grab	Daily Maximum.	
	163 μg/l		Part III.F.7.c	Monthly Average.	
Lead	543 μg/Ι	Monthly	Grab	Daily Maximum.	
	372g/l	,	Part III.F.7.c	Monthly Average.	
Mercury	2.42 g/l	Monthly	Grab		
•	1.66 µg/l			Monthly Average.	

	Discharge	Monitoring requirements		
Effluent characteristic	limitation	Measurement frequency	Sample type/ method	Reported values
Total Aromatic Hydrocarbons (TAH).	63,700 μg/l 43,700 μg/l	Monthly	Grab Part III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹
Whole Effluent Toxicity (WET)	133 TUc 91 TUc	Annual	Grab Parts III.F.7.b	Daily Maximum. Monthly Average.
Trading Bay: AKG285002, Oil and Grease	42 mg/l daily max. 29 mg/l monthly	Weekly	Grab or average of 4 samples taken within	Daily Maximum. Monthly Average.
Copper	avg 136 μg/l 93.4 μg/l	Weekly	Grab	Daily Maximum. Monthly Average.
Lead	883 μg/l 605 μg/l	Weekly	Grab	Daily Maximum. Monthly Average.
Total Aromatic Hydrocarbons (TAH).	24,500 μg/l 12,200 μg/l	Weekly	Grab Part III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹
Total Aqueous Hydrocarbons (TAqH).	36,800 μg/l 18,300 μg/l	Weekly	Grab Part III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹
Whole Effluent Toxicity (WET) East Forelands:	140 TUc 96 TUc	Quarterly	Grab Parts III.F.7.b	Daily Maximum. Monthly Average.
AKG285003, Oil and Grease	42 mg/l daily max. 29 mg/l monthly avg	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.
Copper	122 μg/l 84 μg/l	Monthly	Grab	Daily Maximum. Monthly Average.
Arsenic	2900 μg/l 1990 μg/l	Monthly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.
Silver	97 μg/l 66 μg/l	Monthly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.
Lead	754 μg/l 517 μg/l	Monthly	Grab	Daily Maximum. Monthly Average.
Mercury Total Aromatic Hydrocarbons	3.37 μg/l 2.31 μg/l 61,800 μg/l	Monthly	Grab Part III.F.7.c Grab	Daily Maximum. Monthly Average. Daily Maximum. ¹
(TAH). Total Aqueous Hydrocarbons	42,400 μg/l 92,700 μg/l	Monthly	Part III.F.7.a	Monthly Average. ¹ Daily Maximum. ¹
(TAqH). Whole Effluent Toxicity (WET)	63,500 μg/l	Annual	Part III.F.7.a	Monthly Average. ¹ Daily Maximum.
Anna:	TU _c 79 TU _c		Parts III.F.7.b	Monthly Average.
AKG285004, Oil and Grease	42 mg/l daily max. 29 mg/l monthly avg.	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.
Copper	209 μg/l 143 μg/l	Monthly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.
Mercury	8.23 μg/l 5.64 μg/l	Monthly	Grab	Daily Maximum. Monthly Average.
Total Aromatic Hydrocarbons (TAH).	86,000 μg/l 58,900 μg/l	Monthly	Grab	Daily Maximum. Monthly Average.
Total Aqueous Hydrocarbons (TAqH).	129,000 μg/l 88,400 μg/l	Monthly	Grab Part III.F.7.a	Daily Maximum. Monthly Average.

Effluent char-	Discharge limita-	Monitoring requirements				
acteristic	tion	Measurement frequency	Sample type/method	Reported values		
Whole Efflu- ent Toxicity (WET).	486 TU _c 333 TU _c	Annual	Parts III.F.7.b	Daily Maximum. Monthly Average.		
AKG285005, Oil and Grease.	42 mg/l daily max. 29 mg/l monthly	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.		
Zinc	avg. 16,700 μg/l 5330 μg/l	Monthly	Grab	Daily Maximum. Monthly Average.		
Whole Efflu- ent Toxicity (WET).	100 TU _c	Annual	Grab Parts III.F.7.b	Daily Maximum. Monthly Average.		
ruce: AKG285006, Oil and Grease.	42 mg/l daily max. 29 mg/l monthly	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.		
Silver	avg. 766 μg/l 525 μg/l	Monthly	Grab	Daily Maximum. Monthly Average.		
Total Aro- matic Hy- drocarbons (TAH).	298,000 μg/l 205,000 μg/l	Monthly	GrabPart III.F.7.a	Daily Maximum. Monthly Average.		
Whole Efflu- ent Toxicity (WET).	912 TU _c 625 TU _c	Annual	Parts III.F.7.b	Daily Maximum. Monthly Average.		
AKG285007, Oil and Grease.	42 mg/l daily max. 29 mg/l monthly avg.	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.		
Copper	244 μg/l 167 μg/l	Monthly	GrabPart III.F.7.c	Daily Maximum. Monthly Average.		
Lead	1030 μg/l 706 μg/l	Monthly	GrabPart III.F.7.c	Daily Maximum. Monthly Average.		
Zinc	7,980 μg/l 5,470 μg/l	Monthly	GrabPart III.F.7.c	Daily Maximum. Monthly Average.		
Total Aro- matic Hy- drocarbons (TAH).	59,300 μg/l 40,600 μg/l	Monthly	GrabPart III.F.7.a	Daily Maximum.1 Monthly Average.1		
Total Aque- ous Hydro- carbons (TAqH).	88,900 μg/l 61,000 μg/l	Monthly	GrabPart III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹		
Whole Effluent Toxicity (WET). hillips A/Tyonek (gas) see Part III.F.6:	174 TU _c 119 TU _c	Annual	Parts III.F.7.b	Daily Maximum. Monthly Average.		
AKG285011, Oil and Grease.	20 mg/l daily max. 15 mg/l monthly avg	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.		
Arsenic	1240 μg/l 851 μg/l	Monthly	GrabPart III.F.7.c	Daily Maximum. Monthly Average.		
Copper	58 μg/l 40 μg/l	Monthly	GrabPart III.F.7.c	Daily Maximum. Monthly Average.		
Lead Mercury	193 μg/l 132 μg/l 0.862 μg/l	Monthly	Grab Part III.F.7.c	Daily Maximum. Monthly Average. Daily Maximum.		
Total Aque- ous Hydro- carbons (TAqH).	0.591 μg/l 4530 μg/l 3110 μg/l	Monthly	Part III.F.7.a	Monthly Average. Daily Maximum. ¹ Monthly Average. ¹		
Whole Effluent Toxicity (WET).	16 TU _c 11 TU _c	Annual	GrabParts III.F.7.b	Daily Maximum. Monthly Average.		

	5: 1	Monitoring requirements			
Effluent characteristic	Discharge limitation	Measurement frequency	Sample type/ method	Reported values	
Phillips A/Tyonek (crude) see Part					
AKG285011, Oil and Grease	42 mg/l daily max 29 mg/l monthly avg	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.	
Silver	766 μg/l 525 μg/l	Monthly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Mercury	21.9 μg/l 15.0 μg/l	Monthly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Arsenic, Cadmium, Copper, Lead, Nickel, Zinc.	N/A	Monthly for one year	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Total Aromatic Hydrocarbons (TAH).	298,000 μg/l 205,000 μg/l	Monthly	Grab Part III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹	
Total Aqueous Hydrocarbons (TAqH).	448,000 μg/l 307,000 μg/l	Monthly	Grab Part III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹	
Whole Effluent Toxicity (WET)	912 TU _c 625 TU _c	Quarterly	Grab Parts III.F.7.b	Daily Maximum. Monthly Average.	
Interim Limitations (Flow Rate <1mgd):					
Oil and Grease	42 mg/l daily max 29 mg/l monthly avg.	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.	
Silver	766 μg/l 525 μg/l	Monthly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Mercury	21.9 μg/l 15.0 μg/l	Monthly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Arsenic, Cadmium, Copper, Lead, Nickel, Zinc.	N/A	Monthly for one year	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Total Aromatic Hydrocarbons (TAH).	298,000 μg/l 205,000 μg/l	Monthly	Grab Part III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹	
Total Aqueous Hydrocarbons (TAqH).	448,000 μg/l 307,000 μg/l	Monthly	Grab Part III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹	
Whole Effluent Toxicity (WET)	912 TU _c 625 TU _c	Annual	Grab Parts III.F.7.b	Daily Maximum. Monthly Average.	
Interim Limitations (Flow Rate >1mgd):					
Oil and Grease	42 mg/l daily max 29 mg/l monthly avg.	Weekly	Grab or average of 4 samples taken within 24 hour period.	Daily Maximum. Monthly Average.	
Silver	766 μg/l 382 μg/l	Weekly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Mercury	21.9 μg/l 10.9 μg/l	Weekly	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Arsenic, Cadmium, Copper, Lead, Nickel, Zinc.	N/A	Monthly for one year	Grab Part III.F.7.c	Daily Maximum. Monthly Average.	
Total Aromatic Hydrocarbons (TAH).	298,000 μg/l 149,000 μg/l	Weekly	Grab Part III.F.7.a	Daily Maximum. ¹ Monthly Average. ¹	

Disabanca		Monitoring requirements		
Effluent characteristic	Discharge limitation	Measurement frequency	Sample type/ method	Reported values
(TAqH). Whole Effluent Toxicity (WET)	223,000 μg/l	Weekly	Grab	Daily Maximum. ¹ Monthly Average. ¹ Daily Maximum. Monthly Average.

¹ Fifteen months after permit issuance, a report summarizing the concentrations of the individual TAH components (benzene, toluene, ethylbenzene and xylene isomers) and individual TAqH components from data collected during the first year of permit coverage must be provided to the EPA.

2. Rerouting Platform Discharge to a Shore-Based Facility

In situations where the platforms are not able to treat produced water and a bypass may occur, the Baker and Dillon platforms may route their produced water discharge to the Granite Point Production Facility for treatment and discharge; the Anna and Bruce platforms may route their produced water discharge to the East Foreland Production Facility for treatment and discharge. The Permittee must report rerouting by telephone or facsimile within 24 hours of rerouting, and must provide a written submission within five days of rerouting that describes why rerouting was necessary, and the anticipated time that rerouting is expected to continue. The permittee must cease rerouting as soon as possible.

3. Interim Produced Water Limitations

Facilities which obtain authorization to discharge produced water subject to interim produced water limitations (see Part I.B.) must submit a facility specific mixing zone application to ADEC based on the first 12 months of monitoring data within 18 months after commencement of discharge.

4. Trading Bay Groundwater

Trading Bay is authorized to discharge treated groundwater extracted pursuant to State Compliance Order #91–23–01–053–02 as part of the produced water waste stream.

5. Spill Clean-Up

Water that is collected as a result of spill clean-up can be treated as produced water and discharged with the produced water waste stream. The Permittee must report the treatment and discharge of spill clean-up water to the EPA within 24 hours of initiating such treatment, and must provide a written submission within five days of initiating treatment that describes the spill, the anticipated volume of spill clean-up water, and the anticipated time that treatment and discharge of spill clean-up water is expected to continue.

6. Phillips A/Tyonek

Two sets of limits for Phillips A/ Tyonek are listed at Part III.F.1. The 'gas' limits are effective at the time of permit issuance, and will continue to be the effective permit limits until Phillips A/Tyonek initiates discharge of crude related discharge directly from the Phillips A/Tyonek platform. The Permittee must submit a notification letter to EPA prior to initiating the discharge of crude related produced water from the platform. The "crude" limits become effective on the day identified in the notification letter. A facility specific mixing zone application must be submitted to ADEC for Phillips A/Tyonek based on the first 12 months monitoring data within 18 months after commencement of crude related produced water discharges.

7. Monitoring Requirements

Monitoring must be conducted according to test procedures approved under 40 CFR 136, unless other test procedures are specified here or elsewhere in this permit. Representative sampling requirements are discussed in Part III.A.

- a. *Total Aromatic Hydrocarbons* (*TAH*) and *Total Aqueous Hydrocarbons* (*TAqH*). For analysis of TAH and TAqH, all analytical requirements cited in the Alaska Standards, 18 AAC 70.020(b) are applicable.
- b. Whole effluent toxicity. (1) The Permittee must conduct tests on grab effluent samples with one vertebrate and two invertebrate species, as follows.

Vertebrate (survival and growth): Inland silverside, *Menidia beryllina*.

Invertebrate: Atlantic myside *Mysidopsis bahia* (survival, growth and fecundity test) and one of the following two bivalve species tests: Mussel *Mytilis sp.* or Pacific oyster *Crassostrea gigas* (larval development test). Due to seasonal variability, testing may be performed during reliable spawning periods (e.g. December through February for mussels; June through August for oysters).

(2) Each year, the permittee must rescreen with the three species listed

- above, and continue to monitor with the most sensitive species. Rescreening must consist of one test conducted at a different time of year from the previous years test.
- (3) The presence of chronic toxicity must be estimated as specified in "USEPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, Second Edition," (EPA/600/4–91/003). For the bivalve species, chronic toxicity must be estimated as specified in "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to West Coast Marine and Estuarine Organisms" (EPA/600/R–95/136).
- (4) Results must be reported in TU_c , where $TU_c = 100/NOEC$. The reported NOEC must be the highest NOEC calculated for the applicable survival, growth or fecundity endpoints.
- (5) A series of five dilutions and a control will be tested. The series must include the instream waste concentration (IWC), two dilutions above the IWC, and two dilutions below the IWC. The IWC is the concentration of effluent at the edge of the mixing zone.
- (6) In addition to those quality assurance measures specified in the methodology, the following quality assurance procedures must be followed:
- (a) If organisms are not cultured inhouse, concurrent testing with reference toxicants must be conducted. Where organisms are cultured in-house, monthly reference toxicant testing is sufficient.
- (b) If either of the reference toxicant tests or the effluent tests do not meet all test acceptability criteria as specified in the test methods manual, then the permittee must re-sample and re-test as soon as possible.
- (c) Control and dilution water should be receiving water, or salinity adjusted

- lab water. If the dilution water used is different from the culture water, a second control, using culture water must also be used.
- (7) Accelerated Testing. (a) If chronic toxicity is detected above the permit limits, collection and analysis of one additional sample is required within two weeks of receipt of the test results.
- (b) If chronic toxicity is not detected in the sample required by Part III.F.7.a, the Permittee must notify the EPA and ADEC in writing of the results within fifteen (15) days of receipt of the results, and must discuss the cause of the exceedance, and the corrective actions which were taken.
- (c) If chronic toxicity is detected in the sample required by Part III.F.7.a., then the Permittee must conduct four biweekly tests over an eight week period. Accelerated testing must be initiated within fifteen (15) days of the receiving the sample results required by Part III.F.7.a.
- (8) Toxicity Reduction Evaluation (TRE). (a) If chronic toxicity is detected above the permit limits during

- accelerated testing, then in accordance with EPA/600/2–88/070, a toxicity reduction evaluation (TRE) must be initiated within fifteen days of this exceedance in order to expeditiously locate the source(s) of toxicity and evaluate the effectiveness of pollution control actions and/or in plant modifications toward attaining compliance.
- (b) If none of the four tests indicates toxicity, then the permittee may return to the normal testing frequency.
- (9) Toxicity Identification Evaluation (TIE). (a) If chronic toxicity is detected in any two of the four bi-weekly tests, the permittee must initiate a TIE to identify the specific chemical(s) responsible for toxicity (EPA/600/6–91/005F (Phase I), EPA/600/R–92/080 (Phase II), and EPA–600/R–92/081 (Phase III).
- (b) If a TIE is triggered prior to completion of the accelerated testing, the accelerated testing schedule may be terminated, or used as necessary in performing the TIE.
- (10) Reporting. (a) The permittee must notify EPA and the State in writing within fifteen (15) days of receipt of the results of the exceedance of the permit limit, of the finding of the TRE/TIE or other investigation to identify the cause(s) of toxicity; actions the permittee has taken or will take to mitigate the impact of the discharge, to correct the noncompliance and to prevent the recurrence of toxicity; where corrective actions including a TRE/TIE have not been completed, an expeditious schedule under which corrective actions will be implemented; and if no actions have been taken, the reason for not taking action.
- c. *Metals*. The method detection limits and interim minimum level listed below are needed in order to determine whether or not violations of water quality are occurring at the point of discharge. In addition to the procedures approved under 40 CFR 136, the ICP–MS test procedure 200.8 ("Methods for Chemical Analyses of Water and Wastes," EPA–600/4–79–020) may be used for analysis of these samples.

Pollutant	Aquatic life chronic cri- teria (μg/l)	Method detection limit (μg/l)	Interim minimum level (µg/l)
Arsenic	36	7.2	N/A
Cadmium	9.3	1.9	N/A
Copper	2.9	0.6	N/A
Lead	5.6	1.1	N/A
Nickel	7.1	1.4	N/A
Silver	2.3	0.5	N/A
Mercury	0.025	0.2	0.5
Zinc	58	12	N/A

G. Completion Fluids, Workover Fluids, Well Treatment Fluids, and Test Fluids (Discharges 016-019)

1. Effluent Limitations

In addition to the restrictions set out in Parts III.A., III.G.2–4., and IV, the Permittee must comply with the following effluent limitations and monitoring requirements.

Effluent char- Discharge limi-		Monitoring requirements			
acteristic	tation	Measurement frequency	Sample type/method	Reported values	
All Wastestrea- ms:					
Discharge fre- quency.	N/A	Once/discharge ¹	Count	Type and total number of discharges.	
Flow rate (MGD).	N/A	Daily ¹	Estimate	Monthly average.	
Oil-based fluids.	No discharge	Included in free oil monitoring, below ² .			
Free oil ³	No free oil	Once per discharge 1	Grab/Static Sheen Test	Number of times sheen observed.	
Oil and grease ³ .	42 mg/l max. daily. 29 mg/l month- ly avg	Once per discharge 1	Grab or average of 4 samples taken within 24 hours.	Daily max. and monthly average.	
рН	, ,	Once per discharge 1	Grab	pH.	

Effluent char-	Discharge limi-	Monitoring requirements			
acteristic	tation	Measurement frequency	Sample type/method	Reported values	
Treatment, Workover, Completion Metals.		Once per discharge ¹	Part III.G.4.		

¹The type of discharge (i.e., completion, workover, treatment, test fluid, or any combination) must be reported. Discharge of individual wastestreams must be reported separately from the discharge of commingled wastestreams.

² Discharge of oil-based fluids is prohibited.

2. Commingled Wastestreams

If workover, completion, well treatment or test fluids are mixed with produced water, then this discharge must be considered produced water for monitoring purposes (*Part III.F.*). The estimated flow rate of workover, completion, well treatment or test fluids must be reported in the comment section of the DMR.

3. Chemical Inventory

The Permittee must maintain an inventory of the type and quantity of chemicals (other than fresh or seawater) added to completion, workover, well treatment, and test fluids. The inventory(ies) must be submitted annually. The annual inventories must be assembled for the calendar year, and must be submitted to the EPA within 90 days of the completion of the calendar year.

4. Monitoring Requirements

Monitoring must be conducted according to test procedures approved under 40 CFR 136, unless other test procedures are specified here or elsewhere in this permit. Representative sampling requirements are discussed in *Part III.A.*

Metals. For each discharge of well treatment, completion or workover fluids which is characterized as an acid job (strong or weak, including but not limited to hydrochloric or hydrofluoric acid, EDTA), samples of effluent must be taken for analyses of the following: cadmium, chromium, copper, lead, nickel and zinc. Analyses for total recoverable concentrations must be conducted and reported for each metal.

H. Other Discharge Limitations

1. Floating Solids, Visible Foam, or Oily Wastes

There must be no discharge of floating solids or visible foam in other than trace amounts, nor of oily wastes which produce a sheen on the surface of the receiving water.

2. Surfactants, Dispersants, and Detergents

The discharge of surfactants, dispersants, and detergents must be minimized except as necessary to comply with the safety requirements of the Occupational Health and Safety Administration and the Minerals Management Service. The discharge of dispersants to marine waters in response to oil or other hazardous spills is not authorized by this permit.

3. Applicable Marine Water Quality Criteria

There must be no discharge of any constituent in concentrations which results in an exceedence of applicable marine water quality criteria at the edge of any permitted mixing zone.

4. Other Toxic and Non-conventional Compounds

There must be no discharge of diesel oil, halogenated phenol compounds, trisodium nitrilotriacetic acid, sodium chromate or sodium dichromate.

I. Best Management Practices Plan Requirement.

1. Development

The Permittee must develop a Best Management Practices (BMP) Plan which achieves the objectives and the specific requirements listed below.

The Permittee must certify that its BMP Plan is complete, on-site, and available upon request to EPA . This certification must identify the NPDES permit number and be signed by an authorized representative of the Permittee. For new exploratory operations, the certification must be submitted no later than the written notice of intent to commence discharge (Part I.A.3). For existing dischargers, the certification must be submitted within one year of permit issuance.

2. Purpose

The BMP Plan must be designed to prevent or minimize the generation and the potential for the release of pollutants from the facility to the waters of the United States through normal operations and ancillary activities.

3. Objectives

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

a. 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 influent waste stream in the most appropriate manner.

b. The Permittee must establish specific objectives for the control of pollutants by conducting the following

evaluations.

- (1) 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 waters of the United States due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
- (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g., precipitation), or other circumstances to result in significant amounts of pollutants reaching surface waters, the program should include a prediction of the direction, rate of flow and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.

4. Requirements

The BMP Plan must be consistent with the objectives in Part 3 above and the general guidance contained in the publication entitled "Guidance Document for Developing Best Management Practices (BMP)" (EPA 833–B–93-004, U.S. EPA, 1993) or any subsequent revisions to the guidance document. The BMP Plan must:

a. Be documented in narrative form, and must include any necessary plot plans, drawings or maps, and must be

³No free oil and oil and grease limits apply to each discharge, whether these wastestreams are discharged individually or are commingled. All fluids must be processed through an oil-water separator prior to discharge. Samples must be collected after the final step of treatment.

developed in accordance with good engineering practices. At a minimum, the BMP Plan must contain the planning, development and implementation, and evaluation/reevaluation components discussed in "Guidance Document for Developing Best Management Practices (BMP)" (EPA 833-B-93-004, U.S. EPA, 1993) or any subsequent revisions to the guidance document.

b. Include the following provisions concerning BMP Plan review:

(1) Be reviewed by plant engineering staff and the plant manager as warranted by changes in the operation or at the facility which are covered by the BMP.

(2) Be reviewed and endorsed by the individuals responsible for development and implementation of the BMP plan.

- (3) Include a statement that the above reviews have been completed and that the BMP Plan fulfills the requirements set forth in this permit. The statement must be certified by the dated signatures of the individuals responsible for development and implementation of the BMP Plan.
- c. Establish specific best management practices to meet the objectives identified in Part 3 of this section, addressing each component or system capable of generating or causing a release of significant amounts of pollutants, and identifying specific preventative or remedial measures to be implemented.

5. Documentation

The Permittee must maintain a copy of the BMP Plan at the facility and must make the plan available to EPA upon request.

6. BMP Plan Modification

The Permittee must amend the BMP Plan whenever there is a change in the facility or in the operation of the facility which materially increases the generation of pollutants or their release or potential release to the receiving waters. The Permittee must also amend the Plan, as appropriate, when plant operations covered by the BMP Plan change. Any such changes to the BMP Plan must be consistent with the objectives and specific requirements listed above. All changes in the BMP Plan must be reviewed by the plant engineering staff and plant manager.

7. Modification for Ineffectiveness

At any time, if the BMP Plan proves to be ineffective in achieving the general objective of preventing and minimizing the generation of pollutants and their release and potential release to the receiving waters and/or the specific requirements above, the permit and/or the BMP Plan must be subject to modification to incorporate revised BMP requirements.

IV. Recording and Reporting Requirements

A. Reporting of Monitoring Results

The Permittee must summarize monitoring results each month on the Discharge Monitoring Report (DMR) form (EPA No. 3320–1). The Permittee must submit reports monthly, postmarked by the 20th day of the following month. Quarterly sampling results must be reported on, or before the March, June, September, and December DMRs. The Permittee must sign and certify all DMRs, and all other reports, in accordance with the requirements of *Part VI.D.* of this permit ("Signatory Requirements").

The Permittee must submit the legible originals of these documents to the Director, Water Division, 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, Attn: Watershed Management Section, 555 Cordova Street, Anchorage, Alaska 99501

B. Annual Biocide Report

The Permittee must maintain an inventory of the type and volume of all biocides added to any waste streams authorized for discharge under this permit. Each annual inventory must be assembled for the calendar year, and must be submitted to the EPA within 90 days of the completion of the calendar year.

C. Annual Chemical Inventory and TAH/TAqH Report Requirements

See chemical inventory requirements at Part III.E.2. and III.G.3, and the TAH/TAqH requirement at Part III.F.1., footnote 1.

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 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. The Permittee must indicate on the DMR whenever it has performed additional monitoring, and must explain why it performed such monitoring.

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

E. Records Contents

All effluent monitoring records must bear the hand-written signature of the person who prepared them. In addition, all records of monitoring information must include:

- 1. The date, exact place, and time of sampling or measurements;
- 2. The names 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

The Permittee must retain records of all monitoring information, including, but not limited to, 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, or for the term of this permit, whichever is longer. This period may be extended by request of the Director at any time.

A copy of the final permit must be maintained at the drilling site.

G. Twenty-four Hour Notice of Noncompliance Reporting

- 1. The Permittee must report the following occurrences of noncompliance by telephone or facsimile 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 results in or contributes to an exceedance of any effluent limitation in the permit (see Part V.G., "Bypass of Treatment Facilities");
- c. Any upset that results in or contributes to an exceedance of any effluent limitation in the permit (see *Part V.H.*, "Upset Conditions"): or
- Part V.H., "Upset Conditions"); or d. Any violation of a maximum daily discharge limitation for any of the pollutants listed 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: and
- d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- 3. The Director may, at her or his sole discretion, waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Water Compliance Section in Seattle, Washington, by telephone, (206) 553–1846
- 4. Reports must be submitted to the addresses in *Part IV.A.* ("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 IV.A.* are submitted. The reports must contain the information listed in *Part IV.G.2.* of this permit.

I. Changes in Discharge of Toxic Substances.

The Permittee must notify the Director as soon as it knows, or has reason to believe:

- 1. That any activity has occurred or will occur that would result in 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":
- a. One hundred micrograms per liter $(100 \mu g/l)$;
- b. Two hundred micrograms per liter $(200 \, \mu g/l)$ for acrolein and acrylonitrile; five hundred micrograms per liter $(500 \, \mu g/l)$ for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter $(1 \, mg/l)$ for antimony;
- c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
- d. The level established by the Director in accordance with 40 CFR 122.44(f).
- 2. That any activity has occurred or will occur that would result in any discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
- a. Five hundred micrograms per liter (500 μg/l);
- b. One milligram per liter (1 mg/l) for antimony;
- c. Ten (10) times the maximum concentration value reported for that

pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or

d. The level established by the Director in accordance with 40 CFR 122.44(f).

V. 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. The Permittee must give reasonable advance notice to the Director of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

B. Penalties for Violations of Permit Conditions.

1. Civil and Administrative Penalties

Any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act must be subject to a civil or administrative penalty, not to exceed the maximum amounts specified in Section 309(d) and 309(g) of the Act.

2. Criminal Penalties

a. Negligent Violations. Any person who negligently violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act must, upon conviction, be punished by a fine and/or imprisonment as specified in Section 309(c)(1) of the Act.

b. Knowing Violations. Any person who knowingly violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act must, upon conviction, be punished by a fine and/or imprisonment as specified in Section 309(c)(2) of the Act.

- c. Knowing Endangerment. Any person who knowingly violates a permit condition implementing Sections 301, 302, 303, 306, 307, 308, 318, or 405 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, must, upon conviction, be subject to a fine and/or imprisonment as specified in Section 309(c)(3) of the Act.
- d. False Statements. Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under this Act or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this Act, must

be punished by a fine and/or imprisonment as specified in Section 309(c)(4) of the Act.

Except as provided in permit conditions in *Part V.G.*, ("Bypass of Treatment Facilities") and *Part V.H.*, ("Upset Conditions"), nothing in this permit must be construed to relieve the Permittee of the civil or criminal penalties for noncompliance.

C. Need To Halt or Reduce Activity Not a Defense.

It must 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 the conditions of this permit.

D. Duty To Mitigate

The Permittee must 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.

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) that 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 only when the operation is necessary to achieve compliance with the conditions of the permit.

F. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of water and wastewaters must be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

G. 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, 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 IV.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:
- (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- (2) 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
- (3) 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 determine that it will meet the three conditions listed above in paragraph 3.a. of this Part.

H. 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. Demonstration of an 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 IV.G.*, Twenty-four Hour Notice of Noncompliance Reporting; and

d. The Permittee complied with any remedial measures required under *Part V.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.

I. Toxic Pollutants

The Permittee must comply with effluent standards or prohibitions established under Section 307(a) of the Act for toxic pollutants 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.

J. Planned Changes

The Permittee must give notice to the Director 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 subject neither to effluent limitations in the permit, nor to notification requirements under *Part IV.I.*

The Permittee must give notice to the Director as soon as possible of any planned changes in process or chemical use whenever such change could significantly change the nature or increase the quantity of pollutants discharged.

K. Anticipated Noncompliance

The Permittee must also give advance notice to the Director of any planned changes in the permitted facility or activity that may result in noncompliance with this permit.

VI. General Provisions

A. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

B. Duty To Provide Information

The Permittee must furnish to the Director, within the time specified in

the request, any information that the Director 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, upon request, copies of records required to be kept by this permit.

C. 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, it must promptly submit the omitted facts or corrected information.

D. Signatory Requirements

All applications, reports or information submitted to the Director must be signed and certified.

- 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 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 and submitted to the Director, and
- 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.
- 3. Changes to authorization. If an authorization under Part VI.D.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 paragraph VI.D.2. must be submitted to the Regional Administrator 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.

E. Availability of Reports

Except for data determined to be confidential under 40 CFR 2, all reports prepared in accordance with this permit must be available for public inspection at the offices of the state water pollution control agency and the Director. As required by the Act, permit applications, permits, Best Management Practices Plans, and effluent data must not be considered confidential.

F. Inspection and Entry

The Permittee must allow the Director, 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.

G. Oil and Hazardous Substance Liability

Nothing in this permit must be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject under Section 311 of the Act.

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 private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

I. Severability

The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, must not be affected thereby.

J. Transfers

This permit may be automatically transferred to a new Permittee if:

1. The current Permittee notifies the Director at least 30 days in advance of

the proposed transfer date;

- 2. The notice includes a written agreement between the existing and new Permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them;
- 3. The Director does not notify the existing Permittee and the proposed new Permittee of his or her intent to modify, or revoke and reissue the permit.

If the notice described in paragraph 3 above is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 2 above.

K. State Laws

Nothing in this permit must 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.

L. Reopener Clause

This permit is subject to modification, revocation and reissuance, or termination at the request of any interested person (including the permittee) or upon EPA initiative. However, permits may only be modified, revoked or reissued, or terminated for the reasons specified in 40 CFR 122.62 or 122.64, and 40 CFR 124.5. This includes new information which was not available at the time of permit issuance and would have justified the application of different permit conditions at the time of issuance including future monitoring

results. All requests for permit modification must be addressed to EPA in writing and must contain facts or reasons supporting the request.

VII. Definitions

1. "AAS" means atomic absorption spectrophotometry.

2. "Acute toxic unit (TU_a) " is a measure of acute toxicity. The number of acute toxic units in the effluent is calculated as 100/LC50, where the LC50

is measured in percent effluent. 3. "ADEC" means the Alaska Department of Environmental Conservation.

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. "Ballast water" means harbor or seawater added or removed to maintain the proper ballast floater level and ship

draft.

6. "bbl/hr" means barrels per hour. One barrel equals 42 gallons.

7. "Bilge water" means water which collects in the lower internal parts of the drilling vessel hull.

8. "Biocide" means any chemical agent used for controlling the growth of or destroying nuisance organisms (e.g., bacteria, algae, and fungi).

9. "Blowout preventer fluid" means fluid used to actuate hydraulic equipment on the blowout preventer.

10. "BOD" means biochemical oxygen demand.

11. "Boiler blowdown" means the discharge of water and minerals drained from boiler drums.

12. "Bulk discharge" means the discharge of more than 100 barrels in a one-hour period.

13. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

- 14. "Cd" means cadmium. 15. "Chronic toxic unit (TU_c)" is a measure of chronic toxicity. The number of chronic toxic units in the effluent is calculated as 100/NOEC, where the NOEC is measured in percent effluent.
- 16. "Coastal" means any location in or on a water of the United States landward of the inner boundary of the territorial seas (40 CFR 435.40).

17. "COD" means chemical oxygen demand.

18. "Completion fluid" means salt solutions, weighted brines, polymers, and various additives used to prevent damage to the wellbore during operations which prepare the drilled well for hydrocarbon production.

19. "Cooling water" means oncethrough non-contact cooling water.

20. "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.

21. "Deck drainage" means all waste resulting from platform washings, deck washings, spillage, rainwater, and runoff from curbs, gutters, and drains including drip pans and wash areas within facilities subject to this permit.

22. "Desalination unit wastes" means wastewater associated with the process of creating freshwater from seawater.

- 23. "Development" operations are those operations that are engaged in the drilling and completion of production wells. These operations may occur prior to or simultaneously with production operations.
- 24. "Diesel oil" means the grade of distillate fuel, as specified in the American Society for Testing and Materials Standard Specifications D975–81, that is typically used as the continuous phase in conventional oilbased drilling fluids, which contains a number of toxic pollutants. For the purpose of this permit, "diesel oil" includes the fuel oil present at the
- facility.
 25. "Director" means the Regional Administrator or delegated authority for administration of the NPDES program in EPA, Region 10.
- 26. "Domestic wastes" means materials discharged from showers, sinks, safety showers, eye-wash stations, hand-wash stations, fish-cleaning stations, galleys and laundries.

27. "Drill cuttings" means particles generated by drilling into subsurface geological formations and carried to the surface with the drilling fluid.

28. "Drilling Fluid" refers to the circulating fluid (mud) used in the rotary drilling of wells to clean and condition the hole and to counterbalance formation pressure. The four classes of drilling fluids are:

(a) A water-based drilling fluid has water as its continuous phase and the suspending medium for solids, whether or not oil is present.

(b) An oil-based drilling fluid has diesel oil, mineral oil, or some other oil, but neither a synthetic material nor enhanced mineral oil, as its continuous

phase with water as the dispersed phase.

(c) An enhanced mineral oil-based drilling fluid has an enhanced mineral oil as its continuous phase with water as the dispersed phase.

(d) A synthetic-based drilling fluid has a synthetic material as its continuous phase with water as the

dispersed phase.

29. "Drilling Fluids Toxicity Test" means a toxicity test conducted and reported in accordance the following approved toxicity test methodology: "Drilling Fluids Toxicity Test," as defined in Appendix 2 to Subpart A of 40 CFR 435, or other methods approved in advance by Region 10 that produce results which will assure equivalent protection levels.

- 30. "Enhanced Mineral Oil" as applied to enhanced mineral oil-based drilling fluid means a petroleum distillate which has been highly purified and is distinguished from diesel oil and conventional mineral oil in having a lower polycyclic aromatic hydrocarbon (PAH) content. Typically, conventional mineral oils have a PAH content on the order of 0.35 weight percent expressed as phenanthrene, whereas enhanced mineral oils typically have a PAH content of 0.001 or lower weight percent PAH expressed as phenanthrene.
- 31. "End of well" describes the point during drilling when the greatest well depth is obtained.
- 32. "Excess cement slurry" means the excess cement and wastes from equipment washdown after a cementing operation.
- 33. "Exploratory" operations are limited to those operations involving drilling to determine the nature of potential hydrocarbon reserves and does not include drilling of wells once a hydrocarbon reserve has been defined. Discharges form exploratory operations are limited to five wells per site.
- 34. "Filter Backwash" means wastewater generated when filters are cleaned and maintained.
- 35. "Fire control system test water" means the water released during the training of personnel in fire protection and the testing and maintenance of fire protection equipment.

36. "GC" means gas chromatography. "GC/MS" means gas chromatography/

mass spectrometry.

37. A "Grab" sample is a single sample or measurement taken at a specific time or over as short a period of time as is feasible.

38. "Hg" means mercury.

39. "Hydrotest water" is filtered sea water, or occasionally fresh water, used to test the integrity of unused produced water lines, or produced water lines which are suspected of leaking or which have recently been repaired.

40. "Interim Minimum Level" means the level calculated when a method specified ML does not exist. It is equal to 3.18 times the method specified MDL.

41. "*lb/bbl*" means pounds per barrel. 42. "*LC*₅₀" means the concentration of

effluent that is acutely toxic to 50 percent of the test organisms exposed.

43. "Maximum daily discharge limitation" means the highest allowable

''daily discharge.'

44. "Maximum hourly rate" as applied to drilling mud, cuttings, and washwater means the greatest number of barrels of drilling fluids discharged within one hour, expressed as barrels per hour.

45. "Method Detection Limit (MDL)" means the minimum concentration of an analyte that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero as determined by a specific

laboratory method.

- 46. "Minimum Level" (ML) means the concentration at which the entire analytical system must give recognizable signal and 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 procedures. assuming that all the method specified sample weights, volumes and processing steps have been followed.
- 47. "MĞD" means million gallons per day.
- 48. "mg/kg" means milligrams per kilogram.
- 49. "mg/l" means milligrams per liter. 50. "Mineral oil" means a class of low volatility petroleum product, generally of lower aromatic hydrocarbon content and lower toxicity than diesel oil.
- 51. "Mineral oil pills" (also called mineral oil spots) are formulated and circulated in the mud system as a slug in attempt to free stuck pipe. Pills generally consist of two parts: a spotting compound and mineral oil.

52. "Minimum daily" discharge limitation means the lowest allowable "daily discharge."

53. "Monitoring month" means the

period consisting of the calendar weeks which end in a given calendar month.

- 54. "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.
- 55. "Muds, cuttings, cement at sea floor" means the materials discharged at

the surface of the ocean floor in the early phases of drilling operations, before the well casing is set, and during well abandonment and plugging.

56. "MSD" means marine sanitation device, and is a sanitary wastewater treatment system specifically designed to meet U.S. Coast Guard requirements.

57. "M9IM" means those facilities continuously manned by nine (9) or fewer persons or only intermittently manned by any number of persons.

58. "*M10*" means those facilities continuously manned by ten (10) or more persons.

59. "NAA" means neutron activation analysis.

60. "No discharge of free oil" means that waste streams may not be discharged when they would cause a film or sheen upon or a discoloration of the surface of the receiving water or fail the static sheen test defined in Appendix 1 to 40 CFR 435, Subpart A.

61. "No discharge of diesel oil" in drilling mud means a determination that diesel oil is not present based on a comparison of the gas chromatogram from an extract of the drilling mud and from diesel oil obtained from the drilling rig or platform. GC/MS may also be used.

62. "NOEC" means no observable effect concentration. The NOEC is the highest tested concentration of an effluent at which no adverse effects are observed on the test organisms at a specific time of observation.

63. "Non-contact cooling water"—see "cooling water."

64. "Oil-based drilling mud" means a drilling mud with fossil-derived petroleum hydrocarbons as the continuous phase.

65. "Open water" means less than 25 percent ice coverage within a one mile radius of the discharge site.

66. "Produced solids" means sands and other solids deposited from produced water which collect in vessels and lines and which must be removed to maintain adequate vessel and line capacities.

67. "Produced water" means fluid extracted from a hydrocarbon reserve during development or production, and hydrotest water. The fluid is generally a mixture of oil, water, and natural gas. This may include formation water, injection water, and any chemicals added downhole or during the oil/water separation process.

68. "Production" operations are those operations involving active recovery of hydrocarbons from production formations. These operations may occur simultaneously with or following development operations.

69. "SPP" means the suspended particulate phase of a muds sample, the preparation of which is described in 40 CFR 435. Subpart A. Appendix 2

CFR 435, Subpart A, Appendix 2. 70. "Sanitary wastes" means human body waste discharged from toilets and urinals.

71. "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.

72. "Site" means the single, specific geographical location where a mobile drilling facility (jackup rig, semi-submersible, or arctic mobile rig) conducts its activity, including the area beneath the facility, or to a location of a single gravel island.

73. "Slush ice" occurs during the initial stage of ice formation when unconsolidated individual ice crystals (frazil) form a slush layer at the surface of the water column.

74. "Stable ice" means ice that is stable enough to support discharged muds and cuttings.

75. "State waters," or territorial seas, means the belt of the seas measured from the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking the seaward limit of inland waters ("baseline"), and extending seaward a distance of three miles. The line which marks the seaward limit of inland waters is also referred to as the inner boundary of the territorial seas, and is illustrated by the line separating coastal and offshore waters in Figure 1.

76. "Static Sheen Test" means the standard test procedures that has been developed for this industrial subcategory for the purpose of demonstrating compliance with the requirement of no discharge of free oil. The methodology for performing the static sheen test is presented in Appendix 1 to Subpart A of 40 CFR 435.

77. "Synthetic material" as applied to synthetic-based drilling fluid means material produced by the reaction of specific purified chemical feedstock, as opposed to the traditional base fluids such as diesel and mineral oil which are derived from crude oil solely though physical separation processes. Physical separation processes include fractionation and distillation and/or minor chemical reactions such as cracking and hydro processing. Since they are synthesized by the reaction of purified compounds, synthetic materials

suitable for use in drilling fluids are typically free of polycyclic aromatic hydrocarbons (PAHs) but test sometimes report levels of PAH up to 0.001 weight percent PAH expressed as phenanthrene. Poly (alpha olefins) and vegetable esters are two examples of synthetic materials used by the oil and gas extraction industry in formulating drilling fluids. Poly (alpha olefins) are synthesized from the polymerization (dimerization trimerization, tetramerization and higher oligomerization) of purified straightchain hydrocarbons such as C₆-C₁₄ alpha olefins. Vegetable esters are synthesized from the acid-catalyzed esterification of vegetable fatty acids with various alcohols. The mention of these two synthetic fluid base materials is to provide examples, and is not meant to exclude other synthetic materials that are either in current use or may be used in the future. A synthetic-based drilling fluid may include a combination of synthetic materials.

78. "Test fluid" means the discharge which would occur should hydrocarbons be located during exploratory drilling and tested for formation pressure and content. This would consist of fluids sent downhole during testing along with water from the formation.

formation.

79. "TOC" means total organic carbon.

80. A "24-hour composite" sample must mean a flow-proportioned mixture of not less than 8 discrete aliquots. Each aliquot must be a grab sample of not less than 100 ml and must be collected and stored in accordance with procedures prescribed in the most recent edition of "Standard Methods for the Examination of Water and Wastewater."

81. "Unstable or broken ice conditions" means greater than 25% ice coverage within a one mile radius of the discharge site after spring breakup or after the start of slush ice formation in the fall, but not stable ice.

82. "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.

83. "Waste stream" means any non-de minimis stream of pollutants within the Permittee's facility that enters any permitted outfall or navigable waters. This includes spills and other

unintentional, non-routine or unanticipated discharges.

- 84. "Waterflooding discharges" means discharges associated with the treatment of seawater prior to its injection into a hydrocarbon-bearing formation to improve the flow of hydrocarbons from production wells, and prior to its use in operating physical/chemical treatment units for sanitary waste. These discharges include strainer and filter backwash water.
- 85. "Weekly average" means the average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week. For fecal coliform bacteria, the

- weekly average is calculated as the geometric mean of all daily discharges measured during a calendar week.
- 86. "Well completion fluids" are salt solutions, weighted brines, polymers and various additives used to prevent damage to the well bore during operations which prepare the drilled well for hydrocarbon production. These fluids move into the formation and return to the surface as a slug with the produced water.
- 87. A "well treatment fluid" is any fluid used to restore or improve productivity by chemically or physically altering hydrocarbon bearing strata after a well has been drilled.
- 88. "Workover fluids" are salt solutions, weighted brines, polymers, or
- other specialty additives used in a producing well to allow for maintenance, repair of abandonment procedures. Drilling fluids used during workover operations are not considered workover fluids by definition. Packer fluids (low solid fluids between the packer, production string, and well casing) are considered to be workover fluids.
- 89. "XFA" means x-ray fluorescence analysis.
- 90. "96-hour LC50" means the concentration of a test material that is lethal to 50 percent of the test organisms in a toxicity test after 96 hours of constant exposure.
- 91. " $\mu g/\overline{I}$ " means micrograms per liter. BILLING CODE 6560–50–P

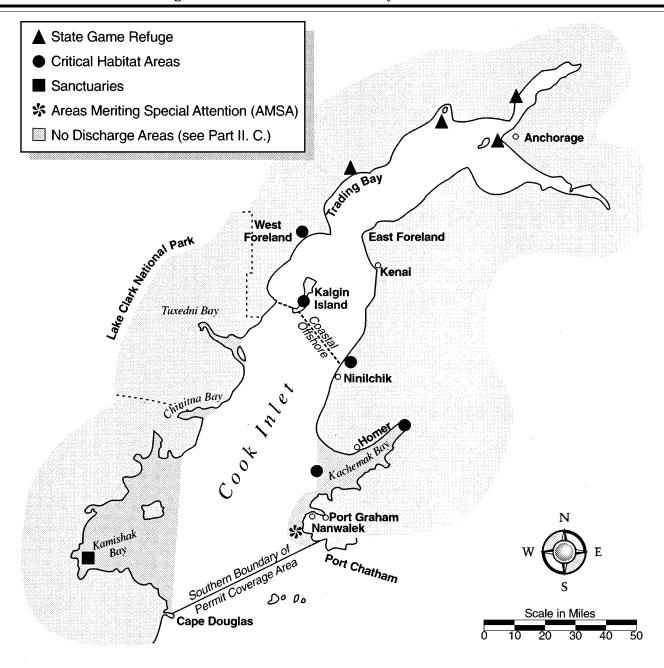


Figure 1
Area of Coverage:
Cook Inlet NPDES Permit AKG285000

[FR Doc. 99–5667 Filed 3–8–99; 8:45 am] BILLING CODE 6560–50–C