

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105**

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
FOR BULK FUEL STORAGE FACILITIES**

NPDES PERMIT NO. GUG000001

In compliance with the provisions of the Clean Water Act, 33 U.S.C. 1251 *et seq.*, (“the Act”), the following discharges to territorial waters in Guam are authorized in accordance with this general National Pollutant Discharge Elimination System (“NPDES”) permit: (1) tank bottom water draws, (2) treated storm water which may be discharged concurrently with tank bottom draws, (3) hydrostatic test water from integrity testing of piping and tankage, (4) service water flows associated with incidental leaks, system tests, and facility maintenance activities, and (5) firewater system testing from five bulk fuel storage facilities in Guam, as specified below.

Discharges shall be in accordance with effluent limitations, monitoring and reporting requirements, and other conditions set forth in Parts I through VI herein. The discharge of pollutants not specifically set forth in this permit is not authorized.

This permit shall become effective on the first day of the month that begins at least 45 days after the final issuance of this general permit. This permit and the authorization to discharge shall expire at midnight, the day before five years from the effective date of the permit.

| | |
|--|------------|
| This permit was issued on: | 01/31/2019 |
| This permit shall become effective on: | 04/01/2019 |
| This permit shall expire on: | 03/31/2024 |

Signed this 31st day of January, 2019

[S]
Tomás Torres, Director
Water Division
U.S. EPA, Region 9

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I. REQUIREMENTS FOR NPDES PERMITS AND COVERAGE CONDITIONS

A. Permit Applicability and Coverage Conditions

1. Operations Covered. This permit establishes effluent limitations, prohibitions, reporting requirements, and other conditions on discharges from the below named bulk fuel storage facilities located on Guam (section I.A.3).

2. Location of Coverage. The permit coverage area consists of surface and marine waters in the Territory of Guam (Guam) that receive effluent from the five facilities listed below discharge into the following receiving waters: Apra Harbor, Piti Channel, and Big Guatali River. Apra Harbor is a near-shore territorial water of Guam designated as Category M-3 (“Fair” quality) marine water, the Piti Channel is a Category S-3 (“Fair” quality) fresh waterbody, which then discharges to Apra Harbor, and the Big Guatali River is a Category S-3 (“Fair” quality) fresh waterbody located in Agat, Guam.

3. Facilities Covered. This permit is intended to authorize discharges from the following five bulk fuel storage facilities operating in Guam:

- A. Mobil Oil Guam Inc./Cabras Terminal,
- B. Tristar Guam F-1 Pier Terminal,
- C. South Pacific Petroleum Corporation/Cabras Island Terminal,
- D. Tristar Guam Agat Terminal, and
- E. Guam Power Authority Piti Terminal.

Coverage under this permit is not available for any other facilities. If any of the above-named facilities change ownership or control the new responsible entities shall resubmit NOIs pursuant to paragraph 6. below.

The permitted outfalls for the five facilities above are described as follows. The Mobil Oil Guam Inc./Cabras Terminal has two permitted outfalls (Outfall 001 – Area A Tank Farm; Outfall 002 – Area C Tank Farm). The Tristar Guam F-1 Pier Terminal contains a single outfall (Outfall 001 – drainage from bulk storage area and pipeline receipt and transfer manifold area). The South Pacific Petroleum Corporation/Cabras Island Terminal has two permitted outfalls (Outfall 001 – Drainage from bulk storage area and pipeline receipt ad transfer manifold area; Outfall 002 – Drainage from tank truck loading area). The Tristar Guam Agat Terminal contains a single outfall (Outfall 001 – drainage from bulk storage area and pipeline receipt ad transfer manifold area). The Guam Power Authority Piti Terminal has three permitted outfalls (Outfalls 001, 002 and 003 all collect storm water or any release from the tanks). All Outfalls

authorize discharge of both treated effluent from the operations described above, as well as treated storm water which may be discharged concurrently.

4. Modifications and Revocations. This permit may be modified or revoked at any time on the basis of any new data that was not available at the time of permit issuance if the new data would have justified the application of different permit conditions at the time of issuance. This includes any information indicating that cumulative effects on the environment are unacceptable. Such cumulative effects on the environment include unreasonable degradation of the marine environment due to continued discharges, in which case the Director, Water Division, Region 9 may determine that additional conditions are necessary to protect the marine environment or special aquatic sites. Permit modification will be conducted in accordance with 40 CFR Parts 122.62, 122.63 and 124.

5. Prohibitions. During the term of this general permit, operators are authorized to discharge under the general permit the enumerated waste streams subject to the restrictions set forth herein. This permit does not authorize the discharge of any waste streams that are not part of the normal operation of the facility, or any pollutants that are not ordinarily present in such waste streams.

6. Notification Requirements.

a. Coverage Under This Permit. Procedures for requesting coverage under a general permit are provided by NPDES regulations at 40 CFR 122.28. In accordance with these regulations, all dischargers requesting coverage under the permit shall submit a Notice of Intent (“NOI”). Information to be provided includes the legal name and address of the owner or operator, the facility name and location, type of facility and discharges, previous permits, and the receiving water(s). All NOIs shall be signed in accordance with 40 CFR 122.22.

For the five bulk fuel storage facilities listed above, written NOIs shall be submitted no later than 30 days after the effective date of this permit. Initiation of discharges authorized by this permit may not begin until EPA has reviewed the submitted information and notified the permittee in writing that their NOI has been approved.

b. Termination of Operations. Facility shall notify the Director in writing within 60 days after permanent termination of discharges from their facility.

c. Duty to Provide Notice of Intent for Continued 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 shall be submitted at least 180 days before the expiration date of this permit, and shall include the information specified in Part I.A.6.a above. Timely receipt of a complete Notice of Intent by EPA shall qualify the Permittee

for an administrative extension of its authorization to discharge under this permit pursuant to 5 U.S.C. Section 558(c), until a new permit is issued and becomes effective.

d. **Submission of Data and Other Reports.** The permittee must electronically submit compliance monitoring data and reports using the electronic reporting tool provided by EPA Region 9 (NetDMR). The permittee must electronically report monthly discharge monitoring reports (DMRs) using NetDMR, which may be accessed from the internet at <http://www.epa.gov/netdmr>. Other notifications or reports required herein shall be submitted electronically using NetDMR.

B. Requiring an Individual Permit

1. The Director may require any Permittee proposing to discharge or discharging under the authority of this permit to apply for and obtain an individual NPDES permit. The following criteria (40 CFR Part 122.28(b)(3)), as well as other relevant considerations, may be used in making such determinations:

- a. Whether the discharger is in compliance with the conditions of this general permit.
- b. A change has occurred in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source.
- c. Effluent limitations guidelines are promulgated for point sources covered by the general permit.
- d. Circumstances have changed since the time of the request to be covered so that the discharger is no longer appropriately controlled under the general permit, or either a temporary or permanent reduction or elimination of the authorized discharge is necessary.
- e. The discharger(s) is a significant contributor of pollutants. In making this determination, the Director may consider the following factors:
 - (1) The location of the discharge with respect to waters of the United States;
 - (2) The size of the discharge;
 - (3) The quantity and nature of the pollutants discharged to waters of the United States; and
 - (4) Other relevant factors.

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 shall submit an application together with the reasons supporting the request to the Director.

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.

5. Any operators who seek to obtain an individual NPDES permit would need to submit a consistency certification to Guam Bureau of Statistics and Plans for review as a federal license or permit activity (15 CFR 930, Subpart D).

II. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Effluent Limits and Monitoring Requirements

1. The discharger is authorized to discharge treated water associated with the following operations: tank bottom water draws, ship to shore transference spills and leaks, hydrostatic test water from integrity testing of piping and tankage, service water flows associated with incidental leaks, system tests, and facility maintenance activities, and firewater system testing. All discharges must be in compliance with the final effluent limits and monitoring requirements specified in Table 1. Compliance with these requirements is based on monitoring at outfall locations described in I.A.3 above.
2. The discharge of pollutants at any point other than the outfall numbers specifically authorized in this permit is prohibited, and constitutes a violation thereof.
3. The discharge shall not:
 - a. cause visible floating materials, debris, oils, grease, scum, foam, or other floating matter which degrades water quality or use;
 - b. produce visible turbidity, settle to form deposits or otherwise adversely affect aquatic life;
 - c. produce objectionable color, odor or taste, directly or by a chemical or biological action;

- d. injure or are toxic or harmful to humans, animals, plants or aquatic life; or induce the growth of undesirable aquatic life.
 - e. cause turbidity values in the receiving water to exceed 1.0 Nephthleometric Turbidity Units (NTU) over ambient conditions.
 - f. cause temperature of the receiving water to be changed by more than 1.8°F (1.0°C) from ambient conditions.
 - g. produce concentrations of oil or petroleum products that:
 - i. cause a visible film, or sheen, or results in visible discoloration of the surface with a corresponding oil or petroleum product odor;
 - ii. cause damage to fish, invertebrates, or objectionable degradation of drinking water quality; or
 - iii. form an oil deposit on the shores or bottom of the receiving body of water.
 - h. cause toxic substances in concentrations that produce detrimental physiological, acute or chronic responses in human, plant, animal or aquatic life.
 - i. cause toxic substances in concentrations that produce contamination in harvestable aquatic life to the extent that it causes detrimental physiological, acute or chronic responses in humans or protected wildlife, when consumed.
 - j. cause the survival of aquatic life in marine waters subjected to the discharge, or other controllable water quality factors, to be less than that for the same water body in areas unaffected by the waste discharge.
4. The discharge, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard.

Table 1. Effluent Limits Applicable to All Facilities

| Pollutant/Parameter | Daily Max. Allowable Effluent Limitation | Monitoring Requirements | |
|------------------------------|--|-------------------------|-------------|
| | | Monitoring Frequency | Sample Type |
| pH (Std. units) ¹ | 6.5 to 8.5 | Once/Month | Grab |
| Oil and Grease (mg/l) | 15 | Once/Month | Grab |
| TSS (mg/l) ² | 100 | Once/Month | Grab |

¹ pH effluent limits reported as minimum/maximum concentrations; pH shall be measured at the time of sampling.

²TSS limit of 100 mg/l applies to all facilities and outfalls except the South Pacific Petroleum Corporation/Cabras Island Terminal and the Mobil Oil Guam Inc./Cabras Terminal (Outfall 001), which must comply with the more stringent limit of 40 mg/l, shown below.

Table 2. Effluent Limits Applicable to Specific Facilities

| Pollutant/ Parameter | Applicable Facilities | Daily Max. Allowable Effluent Limitation | Monitoring Requirements | |
|-----------------------------|--|--|-------------------------|----------------|
| | | | Monitoring Frequency | Sample Type |
| Lead (mg/l) | South Pacific Petroleum Corporation/Cabras Island Terminal | 0.0081 | Once/Month | Grab |
| Benzene (mg/l) ¹ | South Pacific Petroleum Corporation/Cabras Island Terminal and Mobil Oil Guam Inc./Cabras Terminal (Outfall 002) | 0.016 | Once/Month | Grab |
| TSS (mg/l) | South Pacific Petroleum Corporation/Cabras Island Terminal and Mobil Oil Guam Inc./Cabras Terminal (Outfall 001) | 40 | Once/Month | Grab |
| Ammonia (mg/l) | Mobil Oil Guam Inc./Cabras Terminal | 0.15 | Once/Month | Grab |
| Zinc (mg/l) ² | Mobil Oil Guam Inc./Cabras Terminal | 0.086 | Once/Month | Grab |

¹ The limit for Benzene applies only to the South Pacific Petroleum Corporation/Cabras Island Terminal. For Mobil Oil Guam Inc./Cabras Terminal (Outfall 002) this is a monitoring level.

² Zinc effluent limit shall be effective upon effective date of this permit.

Table 3. Monitoring Requirements Applicable to All Facilities

| Pollutant/Parameter | Monitoring Requirements | |
|--------------------------------------|-------------------------|-----------------------|
| | Monitoring Frequency | Sample Type |
| Flow Rate (MGD) ¹ | Continuous | Metered or Calculated |
| Lead (mg/l) ³ | Once/Month | Grab |
| Benzene (mg/l) | Once/Month | Grab |
| Ammonia(mg/l) | Once/Month | Grab |
| Toluene (mg/l) | Once/Year | Grab |
| Ethylbenzene (mg/l) | Once/Year | Grab |
| Xylene (mg/l) | Once/Year | Grab |
| Whole Effluent Toxicity ² | Once/Permit Cycle | Grab |
| Priority Pollutants ² | Once/Permit Cycle | Grab |

¹MGD means million gallons per day.

²In accordance with federal regulations, the permittee shall conduct a concurrent Whole Effluent Toxicity test and Priority Toxics Pollutants scan to ensure that the discharge does not cause toxicity nor contain toxic pollutants in concentrations that may cause violation of water quality standards. Monitoring of WET test and Priority Pollutant scan shall occur upon first discharge at this facility and at least once during permit term. The permittee shall perform all effluent sampling and analyses for the priority pollutants scan in accordance with the methods described in the most recent edition of 40 CFR 136 which provides a complete list of Priority Toxic Pollutants. If the scan results indicate that a limit has actually been exceeded or there is a reasonable potential for such a limit to be exceeded, this permit may be reopened to include appropriate numeric limits.

³Lead shall be measured once/year for Mobil Oil Guam Inc. as it has demonstrated the measured concentration of this parameter is ten times below the water quality criterion. Nevertheless, annual monitoring consistent with other parameters likely to be present such as Toluene and Ethylbenzene is warranted.

B. Sampling

1. Samples and measurements taken as required in this permit shall be representative of the volume and nature of the monitored discharge.
2. Effluent samples shall be taken after the last treatment process and prior to mixing with the receiving water, where representative samples can be obtained.
3. For intermittent discharges, the permittee shall monitor on the first day of discharge. The permittee is not required to monitor in excess of the minimum frequency required in Table 1. If there is no discharge, the permittee is not required to monitor.

C. General Monitoring and Reporting

1. All monitoring shall be conducted in accordance with 40 CFR 136 test methods, unless otherwise specified in this permit. For influent and effluent analyses required in this permit, the permittee shall utilize 40 CFR 136 test methods with MDLs and MLs that are lower than the effluent limits in this permit. For parameters without an effluent limit, the permittee must use an analytical method at or below the level of the applicable water quality criterion for the measured pollutant or the amount of the pollutant is high enough that the method detects and quantifies the level of pollutant in the discharge. If all MDLs or MLs are higher than these effluent limits or criteria concentrations, then the permittee shall utilize the test method with the lowest MDL or ML. In this context, the permittee shall ensure that the laboratory utilizes a standard calibration where the lowest standard point is equal to or less than the ML. Influent and effluent analyses for metals shall measure “total recoverable metal”, except as provided under 40 CFR 122.45(c).
2. As an attachment to the first DMR, the permittee shall submit, for all parameters with monitoring requirements specified in this permit:
 - a. The test method number or title and published MDL or ML,
 - b. The preparation procedure used by the laboratory,
 - c. The laboratory’s MDL for the test method computed in accordance with Appendix B of 40 CFR 136,
 - d. The standard deviation (S) from the laboratory’s MDL study,
 - e. The number of replicate analyses (n) used to compute the laboratory’s MDL, and
 - f. The laboratory’s lowest calibration standard.

As part of each DMR submittal, the permittee shall notify EPA of any changes to the laboratory’s test methods, MDLs, MLs, or calibration standards. If there are any changes to the laboratory’s test methods, MDLs, MLs, or calibration standards, these changes shall be summarized in an attachment to the subsequent DMR submittal.

3. The permittee shall develop a Quality Assurance (“QA”) Manual for the field collection and laboratory analysis of samples. The purpose of the QA Manual is to assist in planning for the collection and analysis of samples and explaining data anomalies if they occur. At a minimum, the QA Manual shall include the following:
 - a. Identification of project management and a description of the roles and responsibilities of the participants; purpose of sample collection; matrix to be sampled; the analytes or compounds being measured; applicable technical, regulatory, or program-specific action criteria; personnel qualification requirements for collecting samples;
 - b. Description of sample collection procedures; equipment used; the type and number of samples to be collected including QA/Quality Control (“QC”) samples; preservatives

- and holding times for the samples (see 40 CFR 136.3); and chain of custody procedures;
- c. Identification of the laboratory used to analyze the samples; provisions for any proficiency demonstration that will be required by the laboratory before or after contract award such as passing a performance evaluation sample; analytical method to be used; MDL and ML to be reported; required QC results to be reported (e.g., matrix spike recoveries, duplicate relative percent differences, blank contamination, laboratory control sample recoveries, surrogate spike recoveries, etc.) and acceptance criteria; and corrective actions to be taken in response to problems identified during QC checks; and
 - d. Discussion of how the permittee will perform data review, report results, and resolve data quality issues and identify limits on the use of data.
4. Throughout all field collection and laboratory analyses of samples, the permittee shall use the QA/QC procedures documented in their QA Manual. If samples are tested by a contract laboratory, the permittee shall ensure that the laboratory has a QA Manual on file. A copy of the permittee's QA Manual shall be retained on the permittee's premises and available for review by regulatory authorities upon request. The permittee shall review its QA Manual annually and revise it, as appropriate.
 5. Samples collected during each month of the reporting period must be reported on Discharge Monitoring Report forms, as follows:
 - a. For a *maximum daily* permit limit or monitoring requirement when one or more samples are collected during the month, report either:

The *maximum value*, if the maximum value of all analytical results is greater than or equal to the ML; or
NODI (Q), if the maximum value of all analytical results is greater than or equal to the laboratory's MDL, but less than the ML; or
NODI (B), if the maximum value of all analytical results is less than the laboratory's MDL.
 - b. For an *average weekly* or *average monthly* permit limit or monitoring requirement when only one sample is collected during the week or month, report either:

The *maximum value*, if the maximum value of all analytical results is greater than or equal to the ML; or
NODI (Q), if the maximum value of all analytical results is greater than or equal to the laboratory's MDL, but less than the ML; or
NODI (B), if the maximum value of all analytical results is less than the laboratory's MDL.

- c. For an *average weekly* or *average monthly* permit limit or monitoring requirement when more than one sample is collected during the week or month, report:

The *average value* of all analytical results where 0 (zero) is substituted for *NODI (B)* and the laboratory's MDL is substituted for *NODI (Q)*.
6. In addition to information requirements specified under 40 CFR 122.41(j)(3), records of monitoring information shall include: the laboratory which performed the analyses and any comment, case narrative, or summary of results produced by the laboratory. The records should identify and discuss QA/QC analyses performed concurrently during sample analyses and whether project and 40 CFR 136 requirements were met. The summary of results must include information on initial and continuing calibration, surrogate analyses, blanks, duplicates, laboratory control samples, matrix spike and matrix spike duplicate results, and sample condition upon receipt, holding time, and preservation.
7. The permittee shall electronically submit Discharge Monitoring Reports using NetDMR (<http://www.epa.gov/netdmr>).
8. DMRs shall be submitted by the 28th day of the month following the previous reporting period. For example, under quarterly submission, the three DMR forms for January, February, and March are due on April 28th. Annual and quarterly monitoring must be conducted starting in the first complete quarter or year following permit issuance. Reporting for annual monitoring is due on January 28th of the following year. A DMR must be submitted for the reporting period even if there was not any discharge. If there is no discharge from the facility during the reporting period, the permittee shall submit a DMR indicating no discharge as required.
9. The permittee shall submit an electronic or paper Discharge Monitoring Report to Guam EPA. Paper DMR forms shall be mailed to:

Administrator
Guam EPA
P.O. Box 22439-GMF
Barrigada, Guam 96921

D. Receiving Water Monitoring

Photo documentation of the discharged effluent is required once per quarter. Photos shall be taken of the effluent as it enters the receiving water and must be of suitable quality to adequately assess visible sheening, discoloration, and turbidity of the receiving water, as a result of the discharge. Each photo must be labeled with the outfall number, date and time and be submitted to EPA as an

electronic attachment to the respective DMR through NetDMR and to Guam EPA, as described above.

III. SPECIAL CONDITIONS

A. Permit Reopener

In accordance with 40 CFR 122 and 124, this permit may be modified by EPA to include effluent limits, monitoring, or other conditions to implement new regulations, including EPA-approved water quality standards; or to address new information indicating the presence of effluent toxicity or the reasonable potential for the discharge to cause or contribute to exceedances of water quality standards.

B. Twenty-four Hour Reporting of Noncompliance

1. The permittee shall report any noncompliance which may endanger human health or the environment. The permittee is required to provide an oral report by directly speaking with an EPA and Guam EPA staff person within 24 hours from the time the permittee becomes aware of the noncompliance. If the permittee is unsuccessful in reaching a staff person, the permittee shall provide notification by 9 a.m. on the first business day following the noncompliance. The permittee shall notify EPA and Guam EPA at the following telephone numbers:

U.S. Environmental Protection Agency
Wastewater Enforcement Section (ENF-3-1)
(415) 972-3577

Guam Environmental Protection Agency Administrator
(671) 475-1658

The permittee shall follow up with a written submission within five days of the time the permittee becomes aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

2. The following shall be included as information which must be reported within 24 hours under this paragraph.

- a. Any unanticipated bypass which exceeds any effluent limit in the permit (see 40 CFR 122.44(g)).
 - b. Any upset which exceeds any effluent limit in the permit.
 - c. Violation of a maximum daily discharge limit for any of the pollutants listed by the director in the permit to be reported within 24 hours (see 40 CFR 122.44(g)).
3. EPA may waive the written report on a case-by-case basis for reports required under paragraph B.2, if the oral report has been received within 24 hours.

C. Chronic Whole Effluent Toxicity (WET) Requirements

1. Monitoring Frequency

If discharge occurs, then permittee shall conduct once per permit term chronic toxicity tests on 24-hour composite effluent samples. Once each permit term, the permittee shall split a 24-hour composite effluent sample and concurrently conduct three toxicity tests using a fish, an invertebrate, and an alga species.

The most sensitive species is the fish, invertebrate, or alga species which demonstrates the largest percent effect level at the Instream Waste Concentration (IWC), where: $IWC \text{ percent effect level} = [(Control \text{ mean response} - IWC \text{ mean response}) + Control \text{ mean response}] \times 100$.

Chronic toxicity test samples shall be collected for each point of discharge at the designated NPDES sampling station for the effluent (i.e., downstream from the last treatment process and any in-plant return flows where a representative effluent sample can be obtained). During term of the permit, a split of each sample shall be analyzed for all other monitored parameters at the minimum frequency of analysis specified by the effluent monitoring program.

2. Species and Test Methods

Freshwater species and short-term test methods for estimating the chronic toxicity of NPDES effluents are found in the fourth edition of *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013, 2002; Table IA, 40 CFR Part 136).

If the permittee discharges to freshwater, the permittee shall conduct static renewal toxicity tests with the fathead minnow, *Pimephales promelas* (Larval Survival and Growth Test Method 1000.0); the daphnid, *Ceriodaphnia dubia* (Survival and

Reproduction Test Method 1002.01); and the green alga, *Selenastrum capricornutum* (also named *Raphidocelis subcapitata*) (Growth Test Method 1003.0).

If the permittee discharges to marine waters, the permittee shall conduct chronic toxicity tests with the purple sea urchin, *Strongylocentrotus purpuratus* (fertilization test method 1008.0) or the tropical collector sea urchin, *Tripneustes gratilla* (Adapted by Amy Wagner, U.S. EPA Region 9 Laboratory, Richmond, CA from a method developed by George Morrison, U.S. EPA Narragansett, RI and Diane Nacci, Science Applications International Corporation, ORD Narragansett RI, 1998)

3. Chronic WET Permit Trigger

For this discharge, the determination of "Pass" or "Fail" from a single-effluent concentration chronic toxicity test at the IWC of 100 percent effluent is determined using the Test of Significant Toxicity (TST) approach described in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, 2010). For any one chronic toxicity test, the chronic WET permit trigger that must be achieved is rejection of the null hypothesis (H_0):

IWC (100 percent effluent) mean response $\leq 0.75 \times$ Control mean response.

A test result that rejects this null hypothesis is reported as "Pass" on the DMR form. A test result that does not reject this null hypothesis is reported as "Fail" on the DMR form. To calculate either "Pass" or "Fail", the permittee shall follow the instructions in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document*, Appendix A. If a test result is reported as "Fail", then the permittee shall follow Section 6 (Accelerated Toxicity Testing and TRE/TIE Process) of this permit.

4. Quality Assurance

- a. Quality assurance measures, instructions, and other recommendations and requirements are found in the chronic test methods manual previously referenced. Additional requirements are specified below.
- b. This discharge is subject to a determination of "Pass" or "Fail" from a single effluent concentration chronic toxicity test at the IWC (for statistical flowchart and procedures, see *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document*, Appendix A, Figure A-1). The chronic IWC for this discharge is 100 percent effluent.
- c. Effluent dilution water and control water should be standard synthetic dilution water, as described in the test methods manual *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*

(EPA/821/R-02/013, 2002). If the dilution water is different from test organism culture water, then a second control using culture water shall also be used.

d. If organisms are not cultured in-house, then concurrent testing with a reference toxicant shall be conducted. If organisms are cultured in-house, then monthly reference toxicant testing is sufficient. Reference toxicant tests and effluent toxicity tests shall be conducted using the same test conditions (e.g., same test duration, etc.).

e. All multi-concentration reference toxicant test results must be reviewed and reported according to EPA guidance on the evaluation of concentration-response relationships found in *Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing* (40 CFR 136) (EPA 821-B-00-004, 2000).

f. If either the reference toxicant or effluent toxicity tests do not meet all test acceptability criteria in the test methods manual, then the permittee shall resample and retest within 14 days.

g. If the discharged effluent is chlorinated, then chlorine shall not be removed from the effluent sample prior to toxicity testing without written approval by the permitting authority.

h. pH drift during a toxicity test may contribute to artifactual toxicity when pH-dependent toxicants (e.g., ammonia, metals) are present in the effluent. To determine whether or not pH drift is contributing to artifactual toxicity, the permittee shall conduct three sets of side-by-side toxicity tests in which the pH of one treatment is controlled at the pH of the effluent while the pH of the other treatment is not controlled, as described in Section 11.3.6.1 of *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013, 2002). Toxicity is confirmed to be artifactual and due to pH drift when no toxicity above the chronic WET permit limit or trigger is observed in the treatments controlled at the pH of the effluent. Upon this confirmation and following written approval by the permitting authority, the permittee may use the procedures outlined in Section 11.3.6.2 of the chronic freshwater test methods manual to control effluent sample pH during the toxicity test.

5. Initial Investigation TRE Work Plan

Within 90 days of the permit effective date, the permittee shall prepare and submit to the permitting authority a copy of its Initial Investigation Toxicity Reduction Evaluation (TRE) Work Plan (1-2 pages) for review. This plan shall include steps the permittee intends to follow if toxicity is measured above the chronic WET permit limit or trigger and should include the following, at minimum:

- a. A description of the investigation and evaluation techniques that would be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency.
 - b. A description of methods for maximizing in-house treatment system efficiency, good housekeeping practices, and a list of all chemicals used in operations at the facility.
 - c. If a Toxicity Identification Evaluation (TIE) is necessary, an indication of who would conduct the TIEs (i.e., an in-house expert or outside contractor).
6. Accelerated Toxicity Testing and TRE/TIE Process
- a. If the chronic WET permit limit or trigger is exceeded and the source of toxicity is known (e.g., a temporary plant upset), then the permittee shall conduct one additional toxicity test using the same species and test method. This toxicity test shall begin within 14 days of receipt of a test result exceeding the chronic WET permit limit or trigger. If the additional toxicity test does not exceed the chronic WET permit limit or trigger, then the permittee may return to the regular testing frequency.
 - b. If the chronic WET permit limit or trigger is exceeded and the source of toxicity is not known, then the permittee shall conduct six additional toxicity tests using the same species and test method, approximately every two weeks, over a 12-week period. This testing shall begin within 14 days of receipt of a test result exceeding the chronic WET permit limit or trigger. If none of the additional toxicity tests exceed the chronic WET permit limit or trigger, then the permittee may return to the regular testing frequency.
 - c. If one of the additional toxicity tests (in paragraphs 6.a or 6.b) exceeds the chronic WET permit limit or trigger, then, within 14 days of receipt of this test result, the permittee shall initiate a TRE using, according to the type of treatment facility, EPA manual *Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants* (EPA/833/B-99/002, 1999) or EPA manual *Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations* (EPA/600/2-8/070, 1989). In conjunction, the permittee shall develop and implement a Detailed TRE Work Plan which shall include the following: further actions undertaken by the permittee to investigate, identify, and correct the causes of toxicity; actions the permittee will take to mitigate the effects of the discharge and prevent the recurrence of toxicity; and a schedule for these actions.
 - d. The permittee may initiate a TIE as part of a TRE to identify the causes of toxicity

using the same species and test method and, as guidance, EPA manuals: *Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures* (EPA/600/16-911003, 1991); *Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA/600/R-92/080, 1993); *Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA/600/R-92/081, 1993); and *Marine Toxicity Identification Evaluation (FIE): Phase I Guidance Document* (EPA/600/R-96-054, 1996).

7. Reporting of Chronic Toxicity Monitoring Results

a. The permittee shall report on the DMR for the month in which the toxicity test was conducted: "Pass" or "Fail" (based on the Welch's t-test result) and the calculated "percent mean response at IWC", where:

$$\text{percent mean response at IWC} = ((\text{Control mean response IWC mean response}) \div \text{Control mean response}) \times 100$$

b. The permittee shall submit a full laboratory report for all toxicity testing as an attachment to the DMR for the month in which the toxicity test was conducted. The laboratory report shall contain: the toxicity test results; the dates of sample collection and initiation of each toxicity test; all results for effluent parameters monitored concurrently with the toxicity test(s); and progress reports on TRE/TIE investigations.

c. The permittee shall notify the permitting authority in writing within 14 days of exceedance of the chronic WET permit limit or trigger. This notification shall describe actions the permittee has taken or will take to investigate, identify, and correct the causes of toxicity; the status of actions required by this permit; and schedule for actions not yet completed; or reason(s) that no action has been taken.

8. Permit Reopener for Chronic Toxicity

In accordance with 40 CFR Parts 122 and 124, this permit may be modified to include effluent limitations or permit conditions to address chronic toxicity in the effluent or receiving waterbody, as a result of the discharge; or to implement new, revised, or newly interpreted water quality standards applicable to chronic toxicity.

D. Pollutant Minimization Program

1. To maintain the discharge at or below WQBELs, the permittee shall conduct a pollutant minimization program for each pollutant with a WQBEL below the ML (or

State/Territory/Tribal quantitation level), with the goal to reduce all potential sources of the pollutant in internal and indirect wastewater streams contributing to the discharge. The permittee shall report on this program along with reporting under the Pollution Prevention Plan for storm water discharges outlined in Section IV. Below.

2. The pollutant minimization program should include:
 - a. review and monitoring of pollutant sources;
 - b. influent and effluent monitoring of the pollutant;
 - c. submittal of a control strategy for reducing pollutant loadings to the treatment facility;
 - d. implementation of appropriate control measures consistent with the control strategy, as pollutant sources are discovered;
 - e. and submittal of an annual status report of activities. This report may be reported with the reporting under the Pollution Prevention Plan for storm water outlined in Section IV. Below.
3. The permitting authority may consider cost-effectiveness when establishing the requirements of a pollutant minimization program. The permitting authority should also consider additional permit conditions (e.g., whole effluent toxicity testing, fish tissue sampling, limitations and/or monitoring on internal waste streams, etc.) to ensure that WQBELs are met and excursions above water quality standards do not occur.

E. Minimization of Potential Impacts to Listed Species

9. Any construction or maintenance activity at the facility shall occur between 7 am and 5 pm, as artificial lighting used for such work at night may impact threatened and endangered species under the Migratory Bird Treaty Act.
10. All materials and waste should be properly disposed and litter controlled to prevent attracting or spreading pest species, which may negatively impact listed species.

IV. POLLUTION PREVENTION PLAN REQUIREMENTS

The Permittee shall develop, if it has not done so, or revise and update, if it already has done developed and implemented a Pollution Prevention Plan (PPP). The PPP shall include the following

program elements in order to reduce pollutants entering the receiving water. If any PPP requirements overlap with SPCC, OPA 90, or HAZMAT plan requirements already implemented, the permittee may simply reference the applicable plan section under the specific PPP requirement.

A. Pollution Prevention Committee

A Pollution Prevention Committee shall be appointed from members within the plant organization. These members shall be responsible for developing the storm water pollution prevention plan and assisting the plant manager in its implementation, maintenance, and revision.

B. Source Identification

The permittee shall identify all activities and significant materials which may potentially be significant pollutant sources. Source identification requirements shall include:

- (1) a drainage site map that identifies the drainage area of all storm water outfalls, all existing structural control measures to reduce pollutants in storm water runoff, and surface water bodies;
- (2) a topographic map extending one-quarter of a mile beyond the property boundaries of the facility;
- (3) a list of significant spills and leaks of toxic or hazardous pollutants that occurred at the facility
- (4) a narrative description of significant materials that have been treated, stored, or disposed of in a manner to allow exposure to storm water between the time of three years prior to the date of the issuance of this permit and the present
- (5) risk identification and assessment/material inventory identifying the various sources at the plant that contribute pollutants to storm water discharges associated with industrial activity;
- (6) a narrative description of the method of on-site storage, disposal and materials management practices employed to minimize contact of these materials with precipitation and storm water runoff;
- (7) a narrative description of materials loading and access areas;
- (8) a prediction of the direction of flow and estimates of the type of pollutants that are likely to be present in storm water discharges for each area of the plant that generates storm water discharges associated with industrial activity; and
- (9) a summary of existing sampling data describing pollutants in storm water discharges.

C. Source Control Best Management Practices (BMPs)

This section of the PPP requires the development and implementation of BMPs designed to prevent pollutants from entering surface waters. The permittee shall describe, in detail, which of the following BMPs can be implemented, and how and when they will be implemented. If certain BMPs are not practicable, the permittee shall describe why they are not. The Pollution Prevention Committee shall make use of the results of Source Identification requirements above when developing the BMPs. As a minimum, BMPs shall be established to ensure the following:

- (1) For Vehicle and Equipment Fueling and Fuel Transfer Areas
 - i. Run-on of storm water and run-off of spills are prevented;
 - ii. Fueling areas are paved with concrete, not asphalt;

- iii. Topping off of fuel is prevented;
- iv. Fuel transfer areas have secondary containment
- v. Spills are cleaned using absorbent materials rather than hosing down the area; and
- vi. Fueling areas are covered if possible.

(2) For Vehicle and Equipment Washing Areas

- i. Wash areas are covered where feasible and bermed to contain wash water;
- ii. Wash water is discharged to the sanitary sewer (after contacting local sewer authorities to find out if pre-treatment is necessary); and
- iii. Wash water is filtered and recycled where feasible

(3) For Vehicle and Equipment Maintenance and Repair Areas

- i. Equipment is inspected on a regular basis for cleanliness and leaks;
- ii. Vehicle maintenance is performed in designated areas only, which are covered and designed to prevent storm water pollution;
- iii. All fluids such as greases, used oil, antifreeze, cleaning solvents, hydraulic and transmission fluids, etc., are kept segregated, recycled or disposed of properly and in accordance with all local, state and federal laws;
- iv. Drip pans or containers are used under all areas that may drip;
- v. All spills are cleaned using absorbent materials, rather than by hosing down the area; and
- vi. Use of solvents is minimized.

(4) For Control of Solid Materials

- i. Scrap metal, wood, plastic, miscellaneous trash such as paper and glass, and industrial scrap are removed from the grounds and properly disposed;
- ii. Routine clean up of litter and debris in the facility is performed to prevent possible discharge to the receiving water
- iii. Oil, paint generators, scrap metal, unused machinery, used batteries, etc., in the facility are stored under cover and disposed of properly and in accordance with all local, state and federal laws; and
- iv. Storm drain inlets and outlets are inspected and cleaned following large storm events.

(5) For Hazardous Waste Management

- i. Hazardous waste, including used paint, oils, brake fluids, anti-freeze, batteries, petroleum products, degreasers, tool coolants, etc. are properly labeled, recycled when possible or disposed of within the guidelines of RCRA;
- ii. Warning signs are posted in locations where there is a significant risk of environmental damage such as spills, and “No Dumping” signs are installed where dumping is likely to occur; and
- iii. Trash bins have signs designating the type of material that is acceptable and/or unacceptable.

(6) For Oil, Grease and Fuel Spills

- i. Used oils are properly stored in sealed and approved containers and stored in a place that can contain the material in the event of a spill, preferably in a covered shed or warehouse. The contained area shall be surrounded by a curb, dike or berm to provide sufficient volume to contain 10% of the total material stored or 110% of the largest container, whichever is the greater volume;
- ii. All paved storage areas are free of cracks and gaps and are sufficiently impervious to contain spills. Fuel and other hydrocarbons shall not be stored on asphalt surfaces
- iii. Cleanup is carried out promptly after an oil or grease spill is detected;
- iv. Liquid absorbent pads are kept in stock for emergency use; and
- v. Loading and unloading of fuels is done in an area that is completely contained and in a manner which will minimize any potential spillage.

(7) For Paint and Solvent Spills

- i. Paints and solvents are mixed in designated paint mix areas only which have adequate secondary containment; and
- ii. Paint and solvent spills are treated as oil spills and must be contained until cleanup is complete.

(8) For Sediment and Erosion Prevention i. Measures to minimize erosion and fuel contaminated sheet flow runoff for areas that have a high potential for significant soil erosion are implemented. Such measures may include, preservation of natural vegetation, re-vegetation, removal of contaminated soils, and geosynthetics.

(9) For Tank Bottom Water Draws i. Water seepage into the fuel tanks is prevented to the maximum extent practicable;

- ii. The release of whole petroleum product from the fuel tank(s) is prevented
- iii. The discharge of tank bottom water draws is treated to meet water quality standards prior to discharge; and
- iv. Tank bottom water draws are not released onto permeable areas which could cause soil or ground water contamination

(10) For Fuel Line Flushing i. Discharge from fuel line flushing is treated to meet water quality standards prior to discharge;

- ii. Discharge from fuel line flushing is not released onto permeable areas; which could cause soil or ground water contamination; and
- iii. Water is conserved to the maximum extent practicable.

D. Treatment Control Best Management Practices (BMPs)

The permittee shall also implement the following BMPs which focus on treating contaminated storm water. BMPs shall be established to ensure the following:

(1) For Structural and Vegetative Controls:

i. Additional structural controls (i.e. oil/water separators, detention basins, etc.) and/or vegetative controls (i.e. grassy swales) shall be constructed if and when the implementation of all source control BMPs is unable to completely control storm water contamination.

(2) For Operation and Maintenance of Oil/Water Separator(s):

- i. Oil/water separators and other storm water management devices, such as storm drain catch basins, are routinely inspected and cleaned to ensure their proper operation; and
- ii. Oil/fuel from the oil water separators is properly disposed.

E. Employee Training

(1) The permittee shall develop and execute an employee and subcontractor training program emphasizing pollution prevention. Employees must be educated about BMPs, and waste minimization. Employees must understand the proper identification, handling, and disposal of hazardous waste, and Spill Prevention and Response procedures.

F. Visual Inspections and Reporting

(1) The permittee shall perform weekly visual inspections using a checklist to ensure that all aspects of the PPP are properly carried out.

(2) The permittee shall complete incident reports documenting the time, date, nature of the problem(s), counter-measures taken, agencies notified, and recommended revisions to the PPP.

6. Reporting

(3) The permittee shall complete the development or revision (if one already exists) of the PPP within six months of the effective date of this permit or first coverage under the permit and notify EPA of implementation of the PPP. Upon plan implementation, the permittee shall submit a report quarterly certifying either compliance or noncompliance with all conditions of the plan, any problems that occurred that had the potential of adding significant quantities of pollutants to the discharge, steps taken to mitigate those problems, and any new procedures implemented or equipment used to improve the operations during each reporting period.

V. STANDARD CONDITIONS

The permittee shall comply with all EPA Region 9 Standard Conditions below.

A. All NPDES Permits

In accordance with 40 CFR 122.41, the following conditions apply to all NPDES permits and are expressly incorporated into this permit.

1. Duty to comply; at 40 CFR 122.41(a).

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

- a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under 405(d) of the CWA within the time provided in the regulations that established these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
- b. The CWA provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The CWA provides that any person who *negligently* violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than 2 years, or both. Any person who *knowingly* violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, such as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent

danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.

- c. Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
2. Duty to reapply; at 40 CFR 122.41(b).

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. Any permittee with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Director.
3. Need to halt or reduce activity not a defense; at 40 CFR 122.41(c).

It shall not be a defense for a 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.
4. Duty to mitigate; at 40 CFR 122.41(d).

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
5. Proper operation and maintenance; at 40 CFR 122.41(e).

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
6. Permit actions; at 40 CFR 122.41(f).

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.

7. Property rights; at 40 CFR 122.41(g).

This permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to provide information; at 40 CFR 122.41(h).

The permittee shall furnish to the Director, within a reasonable time, any information which 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 shall also furnish to the Director upon request, copies of records required to be kept by this permit.

9. Inspection and entry; at 40 CFR 122.41(i).

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

- a. 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;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the CWA, any substances or parameters at any location.

10. Monitoring and records; at 40 CFR 122.41(j).

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time.
 - c. Records of monitoring information shall include:
 - (1) The date, exact place, and time of sampling or measurements;
 - (2) The individual(s) who performed the sampling or measurements;
 - (3) The date(s) analyses were performed
 - (4) The individuals(s) who performed the analyses;
 - (5) The analytical techniques or methods used; and
 - (6) The results of such analyses.
 - d. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR part 503, unless other test procedures have been specified in the permit.
 - e. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.
11. Signatory requirement; at 40 CFR 122.41(k).
- a. All applications, reports, or information submitted to the Director shall be signed and certified. (See 40 CFR 122.22.) All permit applications shall be signed as follows:

- (1) For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

Note: EPA does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR 122.22(a)(1)(i). The Agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the Director to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate positions under 40 CFR 122.22(a)(1)(ii) rather than to specific individuals.

- (2) For a partnership or sole proprietorship. By a general partner or the proprietor, respectively; or
 - (3) For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
- b. All reports required by permits, and other information requested by the Director shall be signed by a person described in paragraph (a) of this section, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- (1) The authorization is made in writing by a person described in paragraph (a) of this section;

- (2) 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 well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters of the company, (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and,
 - (3) The written authorization is submitted to the Director.
- c. Changes to authorization. If an authorization under paragraph (b) of this section 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 (b) of this section must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.
 - d. Certification. Any person signing a document under paragraph (a) or (b) of this section shall 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. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

12. Reporting requirements; at 40 CFR 122.41(l).

- a. Planned changes. The permittee shall give notice to the Director as soon as possible of any planned physical alternations or additions to the permitted facility. Notice is required only when:

- (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source 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 which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1).
 - (3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
- b. Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c. Transfers. This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the CWA. (See 40 CFR 122.61; in some cases, modification or revocation and reissuance is mandatory.)
- (1) Transfers by modification. Except as provided in paragraph (b) of this section, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under 40 CFR 122.62(b)(2)), or a minor modification made (under 40 CFR 122.63(d)), to identify the new permittee and incorporate such other requirements as may be necessary under CWA.
 - (2) Automatic transfers. As an alternative to transfers under paragraph (a) of this section, any NPDES permit may be automatically transferred to a new permittee if:
 - (A) The current permittee notifies the Director at least 30 days in advance of the proposed transfer date in paragraph (b)(2) of this section;
 - (B) 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; and

- (C) 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. A modification under this subparagraph may also be a minor modification under 40 CFR 122.63. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph (b)(2) of this section.
- d. Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.
- (1) Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Director for reporting results of monitoring of sludge use or disposal practices. As of December 21, 2016 all reports and forms submitted in compliance with this section must be submitted electronically by the permittee to the Director or initial recipient, as defined in 40 CFR 127.2(b), in compliance with this section and 40 CFR 3 (including, in all cases, subpart D to part 3), 40 CFR 122.22, and 40 CFR 127.
 - (2) If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR part 136 or, in the case of sludge use or disposal, approved under 40 CFR part 503, or as specified in the permit, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Director.
 - (3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.
- e. Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- f. Twenty-four hour reporting.
- (1) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A report shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The report shall contain a description of the noncompliance and its cause; the period of

noncompliance, including exact dates and times), and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. For noncompliance events related to combined sewer overflows, sanitary sewer overflows, or bypass events, these reports must include the data described above (with the exception of time of discovery) as well as the type of event (combined sewer overflows, sanitary sewer overflows, or bypass events), type of sewer overflow structure (e.g., manhole, combine sewer overflow outfall), discharge volumes untreated by the treatment works treating domestic sewage, types of human health and environmental impacts of the sewer overflow event, and whether the noncompliance was related to wet weather. As of December 21, 2020 all reports related to combined sewer overflows, sanitary sewer overflows, or bypass events submitted in compliance with this section must be submitted electronically by the permittee to the Director or initial recipient, as defined in 40 CFR 127.2(b), in compliance with this section and 40 CFR 3 (including, in all cases, subpart D to part 3), 40 CFR 122.22, and 40 CFR part 127.

- (2) The following shall be included as information which must be reported within 24 hours under this paragraph.
 - (i) Any unanticipated bypass which exceeds any effluent limitation in the permit. (See 40 CFR 122.41(g).)
 - (ii) Any upset which exceeds any effluent limitation in the permit.
 - (iii) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported within 24 hours. (See 40 CFR 122.44(g).)
 - (3) The Director may waive the written report on a case-by-case basis for reports under 40 CFR 122.41(l)(6)(ii) of this section if the oral report has been received within 24 hours.
- g. Other noncompliance. The permittee shall report all instances of noncompliance not reported under 40 CFR 122.41(l)(4), (5), and (6) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (l)(6) of this section.
 - h. Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a

permit application or in any report to the Director, it shall promptly submit such facts or information.

13. Bypass; at 40 CFR 122.41(m).

a. Definitions.

- (1) “Bypass” means the intentional diversion of waste streams from any portion of a treatment facility.
- (2) “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.

b. Bypass not exceeding limitations. The permittee may allow any bypass to occur which 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 40 CFR 122.41(m)(3) and (m)(4) of this section.

c. Notice.

- (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph (1)(6) of this section (24-hour notice).
- (3) As of December 21, 2020 all notices submitted in compliance with this section must be submitted electronically by the permittee to the Director or initial recipient, as defined in 40 CFR 127.2(b), in compliance with this section and 40 CFR part 3 (including, in all cases, subpart D to part 3), 40 CFR 122.22, and 40 CFR part 127. Part 127 is not intended to undo existing requirements for electronic reporting. Prior to this date, and independent of part 127, permittees may be required to report electronically if specified by a particular permit or if required to do so by state law.

d. Prohibition of bypass.

(1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:

(i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and

(iii) The permittee submitted notices as required under paragraph (m)(3) of this section.

(2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraph (m)(4)(i) of this section.

14. Upset; at 40 CFR 122.41(n).

- a. Definition. “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 preventative maintenance, or careless or improper operation.
- b. 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 requirements of paragraph (n)(3) of this section are met. 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.
- c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
- (2) The permitted facility was at the time being properly operated; and
- (3) The permittee submitted notice of the upset as required in paragraph (1)(6)(ii)(B) of this section (24 hour notice).
- (4) The permittee complied with any remedial measures required under paragraph (d) of this section.

d. Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

15. Reopener Clause; at 40 CFR 122.44(c).

For any permit issued to a treatment works treating domestic sewage (including “sludge-only facilities”), the Director shall include a reopener clause to incorporate any applicable standard for sewage sludge use or disposal promulgated under section 405(d) of the CWA. The Director may promptly modify or revoke and reissue any permit containing the reopener clause required by this paragraph if the standard for sewage sludge use or disposal is more stringent than any requirements for sludge use or disposal in the permit, or controls a pollutant or practice not limited in the permit.

16. Minor modifications of permits; at 40 CFR 122.63.

Upon the consent of the permittee, the Director may modify a permit to make the corrections or allowances for changes in the permitted activity listed in this section, without following the procedures of 40 CFR 124. Any permit modification not processed as a minor modification under this section must be made for cause and with 40 CFR 124 draft permit and public notice as required in 40 CFR 122.62. Minor modifications may only:

- a. Correct typographical errors;
- b. Require more frequent monitoring or reporting by the permittee;
- c. Change an interim compliance date in a schedule of compliance, provided the new date is not more than 120 days after the date specified in the existing permit and does not interfere with attainment of the final compliance date requirement;
or

- d. Allow for a change in ownership or operational control of a facility where the Director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittees has been submitted to the Director.
- e. Change the construction schedule for a discharger which is a new source. No such change shall affect a discharger's obligation to have all pollution control equipment installed and in operation prior to discharge under 40 CFR 122.29.
- f. Delete a point source outfall when the discharge from that outfall is terminated and does not result in discharge of pollutants from other outfalls except in accordance with permit limits.
- g. Incorporate conditions of a POTW pretreatment program that has been approved in accordance with the procedures in 40 CFR 403.11 (or a modification thereto that has been approved in accordance with the procedures in 40 CFR 403.18) as enforceable conditions of the POTW's permits.

17. Termination of permits; at 40 CFR 122.64.

- a. The following are causes for terminating a permit during its term, or for denying a permit renewal application:
 - (1) Noncompliance by the permittee with any conditions of the permit;
 - (2) The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time;
 - (3) A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination; or
 - (4) A change in any condition that requires either a temporary or permanent reduction or elimination of any discharge or sludge use or disposal practice controlled by the permit (for example, plant closure or termination of discharge by connection to a POTW).

18. Availability of Reports; pursuant to CWA section 308

Except for data determined to be confidential under 40 CFR 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the

offices of the Regional Administrator. As required by the CWA, permit applications, permits, and effluent data shall not be considered confidential.

19. Removed Substances; pursuant to CWA section 301

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

20. Severability; pursuant to CWA section 512

The provisions of this permit are severable, and 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 remainder of this permit, shall not be affected thereby.

21. Civil and Criminal Liability; pursuant to CWA section 309

Except as provided in permit conditions on “Bypass” and “Upset”, nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

22. Oil and Hazardous Substances Liability; pursuant to CWA section 311

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

23. State, Tribe, or Territory Law; pursuant to CWA section 510

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any applicable State, Tribe, or Territory law or regulation under authorities preserved by CWA section 510.

VI. DEFINITIONS

1. “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.

2. “Average weekly discharge limitation” means the highest allowable 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.
3. “Best Management Practices” or “BMPs” are schedules of activities, prohibitions of practices, maintenance procedures, and other physical, structural, and/or managerial practices to prevent or reduce the pollution of waters of the U.S. BMPs include treatment systems, operating procedures, and practices to control: plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. BMPs may further be characterized as operational, source control, erosion and sediment control, and treatment BMPs.
4. A “composite” sample means a time-proportioned mixture of not less than eight discrete aliquots obtained at equal time intervals (e.g., 24-hour composite means a minimum of eight samples collected every three hours). The volume of each aliquot shall be directly proportional to the discharge flow rate at the time of sampling, but not less than 100 ml. Sample collection, preservation, and handling shall be performed as described in the most recent edition of 40 CFR 136.3, Table II. Where collection, preservation, and handling procedures are not outlined in 40 CFR 136.3, procedures outlined in the 18th edition of Standard Methods for the Examination of Water and Wastewater shall be used.
5. A “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.
6. A “daily maximum allowable effluent limitation” means the highest allowable “daily discharge.”
7. A “DMR” is a “Discharge Monitoring Report” that is an EPA uniform national form, including any subsequent additions, revisions, or modifications for reporting of self-monitoring results by the permittee.
8. A “grab” sample is a single sample collected at a particular time and place that represents the composition of the discharge only at that time and place. Sample collection, preservation, and handling shall be performed as described in the most recent edition of 40 CFR 136.3, Table II. Where collection, preservation, and handling procedures are not outlined in 40 CFR 136.3, procedures outlined in the 18th edition of Standard Methods for the Examination of Water and Wastewater shall be used.
9. The “method detection limit” or “MDL” is the minimum concentration of an analyte that can be detected with 99% confidence that the analyte concentration is greater than zero, as defined by a specific laboratory method in 40 CFR 136. The procedure for determination of a laboratory MDL is in 40 CFR 136, Appendix B.
10. The “minimum level” or “ML” is the concentration at which the entire analytical system must give a 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 in a specific analytical procedure, assuming that all the method-specific sample weights, volumes, and processing steps have been followed (as defined in EPA's draft National Guidance for the Permitting, Monitoring, and Enforcement of Water Quality-Based Effluent Limitations Set Below Analytical Detection/Quantitative Levels, March 22, 1994). If a published method-specific ML is not available, then an interim ML shall be calculated. The interim ML is equal to 3.18 times the published method-specific MDL rounded to the nearest multiple of 1, 2, 5, 10, 20, 50, etc. (When neither an ML nor MDL are available under 40 CFR 136, an interim ML should be calculated by multiplying the best estimate of detection by a factor of 3.18; when a range of detection is given, the lower end value of the range of detection should be used to calculate the ML.) At this point in the calculation, a different procedure is used for metals, than non-metals:

- a. For metals, due to laboratory calibration practices, calculated MLs may be rounded to the nearest whole number.
 - b. For non-metals, because analytical instruments are generally calibrated using the ML as the lowest calibration standard, the calculated ML is then rounded to the nearest multiple of (1, 2, or 5) x 10ⁿ, where n is zero or an integer. (For example, if an MDL is 2.5 µg/l, then the calculated ML is: 2.5 µg/l x 3.18 = 7.95 µg/l. The multiple of (1, 2, or 5) x 10ⁿ nearest to 7.95 is 1 x 10¹ = 10 µg/l, so the calculated ML, rounded to the nearest whole number, is 10 µg/l.)
11. A "NODI(B)" means that the concentration of the pollutant in a sample is not detected. NODI(B) is reported when a sample result is less than the laboratory's MDL.
 12. A "NODI(Q)" means that the concentration of the pollutant in a sample is detected but not quantified. NODI(Q) is reported when a sample result is greater than or equal to the laboratory's MDL, but less than the ML.