



Issuance Date: March 30, 2020  
Effective Date: May 1, 2020  
Expiration Date: April 30, 2025  
Modification Date: April 6, 2021  
Modification Date: June 3, 2022  
Modification Date: June 30, 2022  
Modification Date: January 5, 2024

## STATE WASTE DISCHARGE PERMIT NUMBER ST 6255

State of Washington  
DEPARTMENT OF ECOLOGY  
Southwest Regional Office  
P.O. Box 47775  
Olympia, WA 98504-7775

In compliance with the provisions of the  
State of Washington Water Pollution Control Law  
Chapter 90.48 Revised Code of Washington, as amended,

**NuStar Terminals Operations Partnership L.P.**  
**5420 Northwest Fruit Valley Road**  
**Vancouver, WA 98660**

is authorized to discharge wastewater in accordance with the special and general conditions which follow.

|  |   |
|--|---|
| Facility and Discharge Location:<br>5420 Northwest Fruit Valley Road<br>Vancouver, WA 98660      | Legal Description:<br>Section 16, Range 1E, Township 2N |
| Treatment Type: No treatment provided<br>Industry Type: Petroleum Bulk Stations and<br>Terminals | SIC Code: 5171<br>NAICS Code: 424710                    |

Andrew Kolosseus  
Southwest Region Section Manager  
Water Quality Program  
Washington State Department of Ecology

## TABLE OF CONTENTS

|   |           |
|---|-----------|
| <b>SUMMARY OF PERMIT REPORT SUBMITTALS</b> .....                              | <b>4</b>  |
| <b>SPECIAL CONDITIONS</b> .....   | <b>5</b>  |
| S1. DISCHARGE LIMITS .....  | 5         |
| A. Effluent Limits .....  | 5         |
| B. Best Management Practices/Pollution Prevention .....                       | 6         |
| S2. MONITORING REQUIREMENTS .....   | 6         |
| A. Stormwater Monitoring .....  | 6         |
| B. Groundwater Monitoring .....   | 7         |
| C. Sampling and Analytical Procedures .....                                   | 9         |
| D. Laboratory Accreditation .....   | 9         |
| S3. REPORTING AND RECORDING REQUIREMENTS .....                                | 9         |
| A. Discharge Monitoring Reports .....   | 9         |
| B. Permit Submittals and Schedules .....                                      | 11        |
| C. Records Retention .....  | 11        |
| D. Recording of Results .....   | 11        |
| E. Additional Monitoring by the Permittee .....                               | 11        |
| F. Reporting Permit Violations .....  | 12        |
| G. Other Reporting .....  | 14        |
| H. Maintaining a Copy of this Permit .....                                    | 14        |
| S4. OPERATION AND MAINTENANCE .....   | 14        |
| A. Bypass Procedures .....  | 14        |
| S5. SOLID WASTES .....  | 16        |
| A. Solid Waste Handling .....   | 16        |
| B. Leachate .....   | 16        |
| S6. APPLICATION FOR PERMIT RENEWAL OR MODIFICATION FOR FACILITY CHANGES ..... | 17        |
| S7. STORMWATER POLLUTION PREVENTION PLAN .....                                | 17        |
| S8. SPILL CONTROL PLAN .....  | 17        |
| A. Spill Control Plan Submittals and Requirements .....                       | 17        |
| B. Spill Control Plan Components .....  | 17        |
| S9. ENGINEERING DOCUMENTS .....   | 18        |
| <b>GENERAL CONDITIONS</b> .....   | <b>19</b> |
| G1. SIGNATORY REQUIREMENTS .....  | 19        |
| G2. RIGHT OF ENTRY .....  | 19        |
| G3. PERMIT ACTIONS .....  | 20        |
| G4. REPORTING A CAUSE FOR MODIFICATION .....                                  | 20        |
| G5. PLAN REVIEW REQUIRED .....  | 20        |
| G6. COMPLIANCE WITH OTHER LAWS AND STATUTES .....                             | 20        |
| G7. TRANSFER OF THIS PERMIT .....   | 20        |

G8. PAYMENT OF FEES..... 21

G9. PENALTIES FOR VIOLATING PERMIT CONDITIONS..... 21

G10. DUTY TO PROVIDE INFORMATION..... 21

G11. DUTY TO COMPLY ..... 21

**APPENDIX A..... 22**

**SUMMARY OF PERMIT REPORT SUBMITTALS**

Refer to the Special and General Conditions of this permit for additional submittal requirements.

| <b>Permit Section</b> | <b>Submittal</b>   | <b>Frequency</b> | <b>First Submittal Date</b> |
|-----------------------|--|------------------|-----------------------------|
| S3.A                  | Discharge Monitoring Report (DMR)                              | Quarterly        | October 15, 2020            |
| S3.F                  | Reporting Permit Violations                                    | As necessary     |                             |
| S4.B                  | Reporting Bypasses   | As necessary     |                             |
| S6                    | Application for Permit renewal                                 | 1/permit cycle   | May 1, 2024                 |
| S7                    | Stormwater Pollution Prevention Plan                           | 1/permit cycle   | November 1, 2020            |
| S8                    | Spill Control Plan   | 1/permit cycle   | November 1, 2020            |
| S9                    | AKART Report   | 1/permit cycle   | May 1, 2021                 |
| S9                    | Engineering Report   | 1/permit cycle   | May 1, 2023                 |
| S9                    | Conceptual Plans & Specifications                              | 1/permit cycle   | May 1, 2024                 |
| G1                    | Notice of Change in Authorization                              | As necessary     |                             |
| G4                    | Permit Application for Substantive Changes to the Discharge    | As necessary     |                             |
| G5                    | Engineering Report for Construction or Modification Activities | As necessary     |                             |
| G7                    | Notice of Permit Transfer                                      | As necessary     |                             |
| G10                   | Duty to Provide Information                                    | As necessary     |                             |

Modification Date: June 3, 2022

Modification Date: January 5, 2024

SPECIAL CONDITIONS

S1. DISCHARGE LIMITS

A. Effluent Limits

All discharges and activities authorized by this permit must comply with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a concentration in excess of, that authorized by this permit violates the terms and conditions of this permit.

Beginning on the effective date, the Permittee is authorized to discharge stormwater generated at the facility subject to the following limits:

| Effluent Limits  |                             |                            |
|--|-----------------------------|----------------------------|
| Parameter  | Units                       | Maximum Daily <sup>a</sup> |
| Total Petroleum Hydrocarbons (TPH) <sup>b</sup>  | milligrams per liter (mg/L) | 10                         |
| Benzene  | micrograms per liter (µg/L) | 5.0                        |
| Total BTEX (sum of benzene, toluene, ethylbenzene, and xylene)   | µg/L                        | 100                        |
| pH   | Within the range 6.5 to 8.5 |                            |
| <sup>a</sup> Maximum daily effluent limit means the highest allowable daily discharge. The daily discharge means the maximum discharge of a pollutant measured during a calendar day. For pollutants with limits expressed in units of mass, calculate the daily discharge as the total mass of the pollutant discharged over the day. For other units of measurement, the daily discharge is the average measurement of the pollutant over the day. This does not apply to pH.<br><sup>b</sup> Sum of NWTPH Dx and NWTPH Gx, although TPH also include heavy oil but NuStar did not ever store and is not currently store heavy oil range products at the facility.<br>NWTPH Dx - Northwest Total Petroleum Hydrocarbons Diesel Extended Range<br>NWTPH Gx - Northwest Total Petroleum Hydrocarbons Gasoline Extended Range – see <a href="https://fortress.wa.gov/ecy/publications/documents/97602.pdf">https://fortress.wa.gov/ecy/publications/documents/97602.pdf</a> |                             |                            |

1. The Permittee shall actively conduct site cleanup towards compliance with the MTCA (WAC 173-340). While cleanup actions at the facility is ongoing, groundwater limitations will not be developed for this permit to allow time for the facility to work towards achieving compliance with MTCA.
2. Upon completion of the cleanup action, Ecology will reevaluate the groundwater status at the site to determine if permit limitations for groundwater will be necessary under State Groundwater Standards WAC 173-200.
3. If the facility disengages with Ecology’s Toxic Cleanup Program (TCP) to clean up the site, permit conditions may be modified to better protect the groundwater

quality; and Ecology may develop permit limitations for groundwater pursuant to WAC 173-200.

**B. Best Management Practices/Pollution Prevention**

The Permittee must comply with the following Best Management Practices to prevent pollution to waters of the State:

1. Do not discharge in excess of the hydraulic capacity of the evaporation/infiltration ponds, so that the pond overflows.

**S2. MONITORING REQUIREMENTS**

**A. Stormwater Monitoring**

The Permittee must monitor the stormwater prior to its discharge from the following locations:

1. Fire pond: Outfall 001
2. External floating roofs of the tanks that are being operated:  
 Outfall 002—tank #4001  
 Outfall 003—tank #5503
3. Fuel additive tank farm containment area:  
 Outfall 004
4. Containment Area 7 (central pipeline containment area):  
 Outfall 005

The Permittee must monitor in accordance with the following schedule and the requirements specified in **Appendix A**.

| <b>Stormwater Monitoring Requirement <sup>a</sup></b> |             |                        |                    |             |
|---|-------------|------------------------|--------------------|-------------|
| <b>Parameter</b>                                      | <b>Unit</b> | <b>Frequency</b>       | <b>Sample type</b> | <b>Note</b> |
| Water Depth <sup>b</sup>                              | feet        | Quarterly <sup>c</sup> |                    | Surge pond  |
| TPHg  | mg/L        | Quarterly <sup>c</sup> | Grab <sup>d</sup>  |             |
| TPHd  | mg/L        | Quarterly <sup>c</sup> | Grab <sup>d</sup>  |             |
| Benzene   | µg/L        | Quarterly <sup>c</sup> | Grab <sup>d</sup>  |             |
| Total BTEX  | µg/L        | Quarterly <sup>c</sup> | Grab <sup>d</sup>  |             |
| Arsenic   | µg/L        | Quarterly <sup>c</sup> | Grab <sup>d</sup>  |             |
| Barium  | mg/L        | Quarterly <sup>c</sup> | Grab <sup>d</sup>  |             |

Modification Date: April 6, 2021

| Stormwater Monitoring Requirement <sup>a</sup> |                         |                        |                                |      |
|--|-------------------------|------------------------|--------------------------------|------|
| Parameter                                      | Unit                    | Frequency              | Sample type                    | Note |
| Copper   | mg/L                    | Quarterly <sup>c</sup> | Grab <sup>d</sup>              |      |
| Lead   | mg/L                    | Quarterly <sup>c</sup> | Grab <sup>d</sup>              |      |
| Zinc   | mg/L                    | Quarterly <sup>c</sup> | Grab <sup>d</sup>              |      |
| pH <sup>e</sup>                                | S.U.                    | Quarterly <sup>c</sup> | Grab <sup>d</sup>              |      |
| Flow <sup>f</sup>                              | Gallons per month (gpm) | Quarterly <sup>c</sup> | Estimate base on precipitation |      |

<sup>a</sup> For Outfall # 001 through #004 as specified under S2.A

<sup>b</sup> For stormwater surge pond only, should be observed at the same observation point each time, therefore, to establish a monitoring point may be necessary. Water level shall be measured to the nearest 0.01 foot.

<sup>c</sup> Quarterly monitoring periods are January through March, April through June, July through September and October through December. Quarterly DMRs are due by the 15th day of the month following the quarterly monitoring period, **starting July 1, 2020**.

<sup>d</sup> Grab means an individual sample collected over a 15 minute, or less, period.

<sup>e</sup> The Permittee must report the instantaneous maximum and minimum pH monthly. Do not average pH values.

B. Groundwater Monitoring

The Permittee must monitor the groundwater at the following monitoring wells:

- MW-1
- MW-2
- MW-3
- MW-4
- MW-5
- MW-5D
- MW-6
- MW-6D
- MW-7
- MW-8
- MW-8D
- MW-9
- MW-10
- MW-11
- MW-12
- MW-12D

In accordance with the following schedule and the requirements specified in Appendix A.

Modification Date: June 30, 2022

Groundwater Monitoring Requirement <sup>a</sup>

| Parameter                | Unit  | Frequency              | Sample type       | Note               |
|--------------------------|-------|------------------------|-------------------|--------------------|
| Water level <sup>b</sup> | feet  | Quarterly <sup>c</sup> | Grab <sup>d</sup> | Field <sup>e</sup> |
| pH                       | S.U.  | Quarterly <sup>c</sup> | Grab <sup>d</sup> | Field <sup>e</sup> |
| Temperature              | F     | Quarterly <sup>c</sup> | Grab <sup>d</sup> | Field <sup>e</sup> |
| Electrical Conductivity  | mS/cm | Quarterly <sup>c</sup> | Grab <sup>d</sup> | Field <sup>e</sup> |
| TPHg                     | mg/L  | Quarterly <sup>c</sup> | Grab <sup>d</sup> |                    |
| TPHd                     | mg/L  | Quarterly <sup>c</sup> | Grab <sup>d</sup> |                    |
| TPHo                     | mg/L  | Quarterly <sup>c</sup> | Grab <sup>d</sup> |                    |
| Benzene                  | µg/L  | Quarterly <sup>c</sup> | Grab <sup>d</sup> |                    |
| Total BTEX               | µg/L  | Quarterly <sup>c</sup> | Grab <sup>d</sup> |                    |

<sup>a</sup> Apply to the monitoring wells specified under S2.B which are also subject to additional narrative conditions within this Section.

<sup>b</sup> Water level shall be measured to the nearest 0.01 foot.

<sup>c</sup> Quarterly monitoring periods are January through March, April through June, July through September and October through December, **starting July 1, 2020**. Quarterly DMRs are due by the 15th day of the month following the quarterly monitoring period.

<sup>d</sup> Grab means an individual sample collected over a 15 minute, or less, period.

<sup>e</sup> Field parameters should be measured following field protocols consistent with device used.

1. Groundwater monitoring data for TCP remediation can be used to fulfill monitoring requirement of this permit as long as it meets the monitoring frequency requirement, and testing method requirement listed in Appendix A. These data must be reported through monthly DMR as specified in Reporting Requirement of this permit.
2. During the process of cleanup, if new monitoring wells are added, or existing monitoring wells are replaced, the change should be reported to this permit, and the new and replacing monitoring wells shall be included in the required monitoring well list to ensure the entirety of the groundwater monitoring data in DMR for future groundwater evaluation.
3. In case that any monitoring well listed above is removed from monitoring (e.g., damaged, or decommissioned) before site cleanup is achieved, such change shall be reported to this permit. Unless a replacement well is proposed or installed, the Permittee shall submit a technical memo to document why a replacement well is not necessary. Ecology may require a replacement well based on groundwater quality evaluation results.

C. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit must represent the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets and maintenance-related conditions affecting effluent quality.

Groundwater sampling must conform to the latest protocols in the *Implementation Guidance for the Ground Water Quality Standards*, (Ecology 2005).

Sampling and analytical methods used to meet the water and wastewater monitoring requirements specified in this permit must conform to the latest revision of the following rules and documents unless otherwise specified in this permit or approved in writing by Ecology.

- Guidelines Establishing Test Procedures for the Analysis of Pollutants contained in 40 CFR Part 136
- Standard Methods for the Examination of Water and Wastewater (APHA)

D. Laboratory Accreditation

The Permittee must ensure that all monitoring data required by Ecology for permit specified parameters is prepared by a laboratory registered or accredited under the provisions of chapter 173-50 WAC, *Accreditation of Environmental Laboratories*. Flow, Temperature, Settleable Solids, Conductivity, pH, and internal process control parameters are exempt from this requirement.

S3. REPORTING AND RECORDING REQUIREMENTS

The Permittee must monitor and report in accordance with the following conditions. Falsification of information submitted to Ecology is a violation of the terms and conditions of this permit.

A. Discharge Monitoring Reports

The first monitoring period begins on the effective date of the permit (unless otherwise specified). The Permittee must:

1. Summarize, report, and submit monitoring data obtained during each monitoring period on the electronic discharge monitoring report (DMR) form provided by Ecology within the Water Quality Permitting Portal. Include data for each of the parameters tabulated in Special Condition S2 and as required by the form. Report a value for each day sampling occurred (unless specifically exempted in the permit) and for the summary values (when applicable) included on the electronic form.

To find out more information and to sign up for the Water Quality Permitting Portal go to: <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Water-quality-permits-guidance/WQWebPortal-guidance>

2. Enter the “No Discharge” reporting code for an entire DMR, for a specific monitoring point, or for a specific parameter as appropriate, if the Permittee did not discharge wastewater or a specific pollutant during a given monitoring period.
3. Report single analytical values below detection as “less than the detection level (DL)” by entering < followed by the numeric value of the detection level (e.g. < 2.0) on the DMR. If the method used did not meet the minimum DL and quantitation level (QL) identified in the permit, report the actual QL and DL in the comments or in the location provided.
4. Report the test method used for analysis in the comments if the laboratory used an alternative method not specified in the permit and as allowed in Appendix A.
5. Calculate average values and calculated total values (unless otherwise specified in the permit) using:
  - a. The reported numeric value for all parameters measured between the agency-required detection value and the agency-required quantitation value.
  - b. One-half the detection value (for values reported below detection) if the lab detected the parameter in another sample from the same monitoring point for the reporting period.
  - c. Zero (for values reported below detection) if the lab did not detect the parameter in another sample for the reporting period.
6. Report single-sample grouped parameters (for example: priority pollutants, PAHs, pulp and paper chlorophenolics, TTOs) on the WQWebDMR form and include: sample date, concentration detected, detection limit (DL) (as necessary), and laboratory quantitation level (QL) (as necessary).

The Permittee must also submit an electronic copy of the laboratory report as an attachment using WQWebDMR. The contract laboratory reports must also include information on the chain of custody, QA/QC results, and documentation of accreditation for the parameter.

7. Ensure that DMRs are electronically submitted no later than the dates specified below, unless otherwise specified in this permit.
8. Submit DMRs for parameters with the monitoring frequencies specified in S2 (monthly, quarterly, annual, etc.) at the reporting schedule identified below. The Permittee must:
  - a. Submit **quarterly DMRs**, unless otherwise specified in the permit, by the 15th day of the month following the monitoring period. Quarterly sampling periods are January through March, April through June, July through September, and October through December. The Permittee must submit the first quarterly DMR on **October 15, 2020**, for the quarter beginning on **July 1, 2020**.

B. Permit Submittals and Schedules

The Permittee must use the Water Quality Permitting Portal – Permit Submittals application (unless otherwise specified in the permit) to submit all other written permit-required reports by the date specified in the permit.

When another permit condition requires submittal of a paper (hard-copy) report, the Permittee must ensure that it is postmarked or received by Ecology no later than the dates specified by this permit. Send these paper reports to Ecology at:

Water Quality Permit Coordinator  
Department of Ecology  
Southwest Regional Office  
P.O. Box 47775  
Olympia, WA 98504-7775

C. Records Retention

The Permittee must retain records of all monitoring information for a minimum of three years. Such information must include all calibration and maintenance records and all original 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. The Permittee must extend this period of retention during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by Ecology.

The Permittee must retain all records pertaining to the monitoring of sludge for a minimum of five years.

D. Recording of Results

For each measurement or sample taken, the Permittee must record the following information:

1. The date, exact place, method, and time of sampling or measurement
2. The individual who performed the sampling or measurement
3. The dates the analyses were performed
4. The individual who performed the analyses
5. The analytical techniques or methods used
6. The results of all analyses

E. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by Special Condition S2 of this permit, then the Permittee must include the results of such monitoring in the

calculation and reporting of the data submitted in the Permittee's DMR unless otherwise specified by Special Condition S2.

F. Reporting Permit Violations

The Permittee must take the following actions when it violates or is unable to comply with any permit condition:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the noncompliance and correct the problem.
2. If applicable, immediately repeat sampling and analysis. Submit the results of any repeat sampling to Ecology within 30 days of sampling.

a. Immediate Reporting

The Permittee must immediately report to the Department of Ecology and the Department of Health, Drinking Water Program (at the numbers listed below), all:

Overflows or leaks of transmission or irrigation pipelines that discharge to a waterbody used as a source of drinking or irrigation water.

|                            |                                     |
|----------------------------|-------------------------------------|
| Southwest Regional Office  | 360-407-6300                        |
| Department of Health,      | 800-521-0323 (business hours)       |
| Drinking Water Program     | 877-481-4901 (after business hours) |
| Clark County Public Health | 360-397-8000                        |

b. Twenty-Four-Hour Reporting

The Permittee must report the following occurrences of noncompliance by telephone, to Ecology at the telephone numbers listed above, within 24 hours from the time the Permittee becomes aware of any of the following circumstances. The Permittee must report:

- i. Any noncompliance that may endanger health or the environment, unless previously reported under immediate reporting requirements.
- ii. Any unanticipated bypass that causes an exceedance of an effluent limit in the permit (See Part S4.A., "Bypass Procedures").
- iii. Any upset that causes an exceedance of an effluent limit in the permit. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limits 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.

- iv. Any violation of a maximum daily or instantaneous maximum discharge limit for any of the pollutants in Section S1.A of this permit.
- v. Any overflow prior to the treatment works, whether or not such overflow endangers health or the environment or exceeds any effluent limit in the permit. This requirement does not include industrial process wastewater overflows to impermeable surfaces which are collected and routed to the treatment works.

c. Report within Five Days

The Permittee must also submit a written report within five days of the time that the Permittee becomes aware of any reportable event under subparts a or b, above. The report must contain:

- i. A description of the noncompliance and its cause.
- ii. Maps, drawings, aerial photographs, or pictures to show the location and cause(s) of the non-compliance.
- iii. The period of noncompliance, including exact dates and times.
- iv. The estimated time the Permittee expects the noncompliance to continue if not yet corrected.
- v. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- vi. If the noncompliance involves an overflow prior to the treatment works, an estimate of the quantity (in gallons) of untreated overflow.

d. Waiver of Written Reports

Ecology may waive the written report required in subpart c, above, on a case-by-case basis upon request if the Permittee has submitted a timely oral report.

e. All Other Permit Violation Reporting

The Permittee must report all permit violations, which do not require immediate or within 24 hours reporting, when it submits monitoring reports for S3.A ("Reporting"). The reports must contain the information listed in subpart c, above. Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

G. Other Reporting

1. Spills of Oil or Hazardous Materials

The Permittee must report a spill of oil or hazardous materials in accordance with the requirements of RCW 90.56.280 and chapter 173-303-145. You can obtain further instructions at the following website: <https://ecology.wa.gov/About-us/Get-involved/Report-an-environmental-issue/Report-a-spill> .

2. Failure to Submit Relevant or Correct Facts

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 Ecology, it must submit such facts or information promptly.

H. Maintaining a Copy of this Permit

The Permittee must keep a copy of this permit at the facility and make it available upon request to Ecology inspectors.

S4. OPERATION AND MAINTENANCE

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

A. Bypass Procedures

This permit prohibits a bypass, which is the intentional diversion of waste streams from any portion of a treatment facility. Ecology may take enforcement action against a Permittee for a bypass unless one of the following circumstances (1, 2, or 3) applies.

1. Bypass for essential maintenance without the potential to cause violation of permit limits or conditions.

This permit authorizes a bypass if it allows for essential maintenance and does not have the potential to cause violations of limits or other conditions of this permit, or adversely impact public health as determined by Ecology prior to the bypass. The Permittee must submit prior notice, if possible, at least 10 days before the date of the bypass.

2. Bypass is unavoidable, unanticipated, and results in noncompliance of this permit.

This permit authorizes such a bypass only if:

a. Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical

damage to property, damage to the treatment facilities which would cause 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.

- b. No feasible alternatives to the bypass exist, such as:
    - i. The use of auxiliary treatment facilities.
    - ii. Retention of untreated wastes.
    - iii. Stopping production.
    - iv. Maintenance during normal periods of equipment downtime, but not if the Permittee should have installed adequate backup equipment in the exercise of reasonable engineering judgment to prevent a bypass.
    - v. Transport of untreated wastes to another treatment facility.
  - c. The Permittee has properly notified Ecology of the bypass as required in Special Condition S3.F of this permit.
3. If bypass is anticipated and has the potential to result in noncompliance of this permit.
- a. The Permittee must notify Ecology at least 30 days before the planned date of bypass. The notice must contain:
    - i. A description of the bypass and its cause.
    - ii. An analysis of all known alternatives which would eliminate, reduce, or mitigate the need for bypassing.
    - iii. A cost-effectiveness analysis of alternatives including comparative resource damage assessment.
    - iv. The minimum and maximum duration of bypass under each alternative.
    - v. A recommendation as to the preferred alternative for conducting the bypass.
    - vi. The projected date of bypass initiation.
    - vii. A statement of compliance with SEPA.
    - viii. A request for modification of water quality standards as provided for in WAC 173-201A-410, if an exceedance of any water quality standard is anticipated.

- ix. Details of the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.
- b. For probable construction bypasses, the Permittee must notify Ecology of the need to bypass as early in the planning process as possible. The Permittee must consider the analysis required above during the project planning and design process. The project-specific engineering report or facilities plan as well as the plans and specifications must include details of probable construction bypasses to the extent practical. In cases where the Permittee determines the probable need to bypass early, the Permittee must continue to analyze conditions up to and including the construction period in an effort to minimize or eliminate the bypass.
- c. Ecology will consider the following prior to issuing an administrative order for this type of bypass:
  - i. If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of this permit.
  - ii. If feasible alternatives to bypass exist, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.
  - iii. If the Permittee planned and scheduled the bypass to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, Ecology will approve or deny the request. Ecology will give the public an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Ecology will approve a request to bypass by issuing an administrative order under RCW 90.48.120.

## S5. SOLID WASTES

### A. Solid Waste Handling

The Permittee must handle and dispose of all solid waste material in such a manner as to prevent its entry into state ground or surface water.

### B. Leachate

The Permittee must not allow leachate from its solid waste material to enter state waters without providing all known, available, and reasonable methods of treatment, nor allow such leachate to cause violations of the State Surface Water Quality Standards, Chapter 173-201A WAC, or the State Ground Water Quality Standards, Chapter 173-200 WAC. The Permittee must apply for a permit or permit modification as may be required for such discharges to state ground or surface waters.

S6. APPLICATION FOR PERMIT RENEWAL OR MODIFICATION FOR FACILITY CHANGES

The Permittee must submit an application for renewal of this permit by **May 1, 2024**.

The Permittee must also submit a new application or addendum at least 180 days prior to commencement of discharges, resulting from the activities listed below, which may result in permit violations. These activities include any facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility.

S7. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

The Permittee must prepare and submit a Stormwater Pollution Prevention Plan (SWPPP) by **November 1, 2020**. The SWPPP must adhere to the most current Industrial Stormwater General Permit (ISGP) and ISGP's Special Condition describing the SWPPP.

S8. SPILL CONTROL PLAN

A. Spill Control Plan Submittals and Requirements

The Permittee must:

1. Submit to Ecology an update to the existing Spill Control Plan by **November 1, 2020**.
2. Review the plan at least annually and update the spill plan as needed.
3. Send changes to the plan to Ecology.
4. Follow the plan and any supplements throughout the term of the permit.

B. Spill Control Plan Components

The spill control plan must include the following:

1. A list of all oil and petroleum products and other materials used and/or stored on-site, which when spilled, or otherwise released into the environment, designate as Dangerous Waste (DW) or Extremely Hazardous Waste (EHW) by the procedures set forth in WAC 173-303-070. Include other materials used and/or stored on-site which may become pollutants or cause pollution upon reaching state's waters.
2. A description of preventive measures and facilities (including an overall facility plot showing drainage patterns) which prevent, contain, or treat spills of these materials.
3. A description of the reporting system the Permittee will use to alert responsible managers and legal authorities in the event of a spill.
4. A description of operator training to implement the plan.

The Permittee may submit plans and manuals required by 40 CFR Part 112, contingency plans required by Chapter 173-303 WAC, or other plans required by other agencies, which meet the intent of this section.

S9. ENGINEERING DOCUMENTS

- A. The Permittee must prepare and submit an approvable **AKART report** in accordance with chapter 173-240 WAC to Ecology for review and approval by **May 1, 2021**. The one year period should include consultation with, review and approval by local jurisdictions if the discharge options involves CARA review or any relevant local ordinance or CODE, or involves using local treatment facilities. The AKART report will document that all known available and reasonable methods to prevent and control the pollution of the waters of the state of Washington is achieved, RCW 90.48 section 010. The AKART report will thoroughly research and analyze all discharge options, including, but not be limited to alternate discharge options to: city of Vancouver storm sewer, city of Vancouver sanitary sewer, direct discharge to surface water, and discharge to new area(s) not considered MTCA cleanup sites, as well as NuStar's current practice, infiltration discharge of stormwater to ground water.
- B. The Permittee must prepare and submit an approvable **Engineering Report** in accordance with chapter 173-240 WAC to Ecology for review and approval by **May 1, 2023**. The Engineering Report must propose installation of treatment technology no less stringent than that in place at other petroleum terminals in the state. The report must evaluate and propose improvements to intercepting and diverting product spills, reducing or eliminating the unlined containment areas, oil/water separation and activated carbon adsorption of stormwater prior to discharge, and all discharge alternatives identified in the AKART report.
- C. The Permittee must prepare and submit approvable **Conceptual Plans and Specifications** to Ecology for review and approval in accordance with chapter 173-240 WAC by **May 1, 2024**. In addition to the electronic copy required by Special Condition S3.B, the Permittee must submit one full size paper copy to Ecology for its use to the address listed in Special Condition S3.B. If the Permittee wants Ecology to provide a stamped approved copy it must submit an additional paper copy (total of two paper copies).

Modification Date: June 3, 2022  
Modification Date: January 5, 2024

## GENERAL CONDITIONS

### G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to Ecology must be signed as follows:

- A. All permit applications must be signed by either a principal executive officer or ranking elected official.
- B. All reports required by this permit and other information requested by Ecology 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:
  - 1. The authorization is made in writing by the person described above and is submitted to Ecology at the time of authorization, and
  - 2. The authorization specifies either a named individual or any individual occupying a named position.
- C. Changes to authorization. If an authorization under paragraph G1.B above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to Ecology 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 this section 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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering 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."

### G2. RIGHT OF ENTRY

Representatives of Ecology have the right to enter at all reasonable times in or upon any property, public or private, for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable times include normal business hours; hours during which production, treatment, or discharge occurs; or times when Ecology suspects a violation requiring immediate inspection. Representatives of Ecology must be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; to inspect any monitoring equipment or method required in the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

G3. PERMIT ACTIONS

This permit is subject to modification, suspension, or termination, in whole or in part by Ecology for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

Ecology may also modify this permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. REPORTING A CAUSE FOR MODIFICATION

The Permittee must submit a new application at least 180 days before it wants to discharge more of any pollutant, a new pollutant, or more flow than allowed under this permit. The Permittee should use the State Waste Discharge Permit application, and submit required plans at the same time. Required plans include an Engineering Report, Plans and Specifications, and an Operations and Maintenance manual, (see Chapter 173-240 WAC). Ecology may waive these plan requirements for small changes, so contact Ecology if they do not appear necessary. The Permittee must obtain the written concurrence of the receiving POTW on the application before submitting it to Ecology. The Permittee must continue to comply with the existing permit until it is modified or reissued. Submitting a notice of dangerous waste discharge (to comply with Pretreatment or Dangerous Waste rules) triggers this requirement as well.

G5. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications must be submitted to Ecology for approval in accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications should be submitted at least 180 days prior to the planned start of construction. Facilities must be constructed and operated in accordance with the approved plans.

G6. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit excuses the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G7. TRANSFER OF THIS PERMIT

This permit is automatically transferred to a new owner or operator if:

- A. A written agreement between the old and new owner or operator containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to Ecology;

- B. A copy of the permit is provided to the new owner and;
- C. Ecology does not notify the Permittee of the need to modify the permit.

Unless this permit is automatically transferred according to Section A above, this permit may be transferred only if it is modified to identify the new Permittee and to incorporate such other requirements as determined necessary by Ecology.

G8. PAYMENT OF FEES

The Permittee must submit payment of fees associated with this permit as assessed by Ecology. Ecology may revoke this permit if the permit fees established under Chapter 173-224 WAC are not paid.

G9. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit is guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit incurs, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation is a separate and distinct offense, and in case of a continuing violation, every day's continuance is a separate and distinct violation.

G10. DUTY TO PROVIDE INFORMATION

The Permittee must submit to Ecology, within a reasonable time, all information which Ecology 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 submit to Ecology upon request, copies of records required to be kept by this permit.

G11. DUTY TO COMPLY

The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of chapter 90.48 RCW and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

## APPENDIX A

### *LIST OF POLLUTANTS WITH ANALYTICAL METHODS, DETECTION LIMITS AND QUANTITATION LEVELS*

The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table for permit and application required monitoring unless:

- Another permit condition specifies other methods, detection levels, or quantitation levels.
- The method used produces measurable results in the sample and EPA has listed it as an EPA-approved method in 40 CFR Part 136.

If the Permittee uses an alternative method, not specified in the permit and as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

If the Permittee is unable to obtain the required DL and QL in its effluent due to matrix effects, the Permittee must submit a matrix-specific detection limit (MDL) and a quantitation limit (QL) to Ecology with appropriate laboratory documentation.

When the permit requires the Permittee to measure the base neutral compounds in the list of priority pollutants, it must measure all of the base neutral pollutants listed in the table below. The list includes EPA required base neutral priority pollutants and several additional polynuclear aromatic hydrocarbons (PAHs). The Water Quality Program added several PAHs to the list of base neutrals below from Ecology's Persistent Bioaccumulative Toxics (PBT) List. It only added those PBT parameters of interest to Appendix A that did not increase the overall cost of analysis unreasonably.

Ecology added this appendix to the permit in order to reduce the number of analytical "non-detects" in permit-required monitoring and to measure effluent concentrations near or below criteria values where possible at a reasonable cost.

The lists below include conventional pollutants (as defined in CWA section 502(6) and 40 CFR Part 122.), toxic or priority pollutants as defined in CWA section 307(a)(1) and listed in 40 CFR Part 122 Appendix D, 40 CFR Part 401.15 and 40 CFR Part 423 Appendix A), and nonconventionals. 40 CFR Part 122 Appendix D (Table V) also identifies toxic pollutants and hazardous substances which are required to be reported by dischargers if expected to be present. This permit appendix A list does not include those parameters.

**CONVENTIONAL POLLUTANTS**

| <b>Pollutant</b>                                      | <b>CAS Number<br/>(if available)</b> | <b>Recommended Analytical<br/>Protocol</b> | <b>Detection (DL)<sup>1</sup><br/>µg/L unless<br/>specified</b> | <b>Quantitation Level<br/>(QL)<sup>2</sup> µg/L unless<br/>specified</b> |
|---|--------------------------------------|--|---|--|
| Biochemical Oxygen Demand                             |                                      | SM5210-B                                   |   | 2 mg/L   |
| Biochemical Oxygen Demand, Soluble                    |                                      | SM5210-B <sup>3</sup>                      |   | 2 mg/L   |
| Fecal Coliform  |                                      | SM 9221E,9222                              | N/A   | Specified in method<br>- sample aliquot<br>dependent                     |
| Oil and Grease (HEM) (Hexane Extractable<br>Material) |                                      | 1664 A or B                                | 1,400   | 5,000  |
| pH  |                                      | SM4500-H <sup>+</sup> B                    | N/A   | N/A  |
| Total Suspended Solids                                |                                      | SM2540-D                                   |   | 5 mg/L   |

**NONCONVENTIONAL POLLUTANTS**

| <b>Pollutant &amp; CAS No. (if available)</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/>µg/L unless<br/>specified</b> | <b>Quantitation Level<br/>(QL)<sup>2</sup> µg/L unless<br/>specified</b> |
|---|--------------------------------------|--|---|--|
| Alkalinity, Total                             |                                      | SM2320-B                                   |   | 5 mg/L as CaCO <sub>3</sub>  |

**NONCONVENTIONAL POLLUTANTS**

| <b>Pollutant &amp; CAS No. (if available)</b>          | <b>CAS Number (if available)</b> | <b>Recommended Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup> µg/L unless specified</b> | <b>Quantitation Level (QL)<sup>2</sup> µg/L unless specified</b> |
|--|----------------------------------|--|---|--|
| Aluminum, Total  | 7429-90-5                        | 200.8                                  | 2.0   | 10   |
| Ammonia, Total (as N)                                  |                                  | SM4500-NH3-B and C/D/E/G/H             |   | 20   |
| Barium Total   | 7440-39-3                        | 200.8                                  | 0.5   | 2.0  |
| BTEX (benzene +toluene + ethylbenzene + m,o,p xylenes) |                                  | EPA SW 846 8021/8260                   | 1   | 2  |
| Boron, Total   | 7440-42-8                        | 200.8                                  | 2.0   | 10.0   |
| Chemical Oxygen Demand                                 |                                  | SM5220-D                               |   | 10 mg/L  |
| Chloride   |                                  | SM4500-Cl B/C/D/E and SM4110 B         |   | Sample and limit dependent                                       |
| Chlorine, Total Residual                               |                                  | SM4500 Cl G                            |   | 50.0   |
| Cobalt, Total  | 7440-48-4                        | 200.8                                  | 0.05  | 0.25   |
| Color  |                                  | SM2120 B/C/E                           |   | 10 color units   |
| Dissolved oxygen                                       |                                  | SM4500-OC/OG                           |   | 0.2 mg/L   |
| Flow   |                                  | Calibrated device                      |   |  |
| Fluoride   | 16984-48-8                       | SM4500-F E                             | 25  | 100  |

**NONCONVENTIONAL POLLUTANTS**

| <b>Pollutant &amp; CAS No. (if available)</b> | <b>CAS Number (if available)</b> | <b>Recommended Analytical Protocol</b>                              | <b>Detection (DL)<sup>1</sup> µg/L unless specified</b> | <b>Quantitation Level (QL)<sup>2</sup> µg/L unless specified</b> |
|---|----------------------------------|---|---|--|
| Hardness, Total                               |                                  | SM2340B   |   | 200 as CaCO <sub>3</sub>   |
| Iron, Total                                   | 7439-89-6                        | 200.7   | 12.5  | 50   |
| Magnesium, Total                              | 7439-95-4                        | 200.7   | 10  | 50   |
| Manganese, Total                              | 7439-96-5                        | 200.8   | 0.1   | 0.5  |
| Molybdenum, Total                             | 7439-98-7                        | 200.8   | 0.1   | 0.5  |
| Nitrate + Nitrite Nitrogen (as N)             |                                  | SM4500-NO <sub>3</sub> - E/F/H                                      |   | 100  |
| Nitrogen, Total Kjeldahl (as N)               |                                  | SM4500-N <sub>org</sub> B/C and SM4500NH <sub>3</sub> -B/C/D/EF/G/H |   | 300  |
| NWTPH Dx <sup>4</sup>                         |                                  | Ecology NWTPH Dx  | 250   | 250  |
| NWTPH Gx <sup>5</sup>                         |                                  | Ecology NWTPH Gx  | 250   | 250  |
| Phosphorus, Total (as P)                      |                                  | SM 4500 PB followed by SM4500-PE/PF                                 | 3   | 10   |
| Salinity                                      |                                  | SM2520-B  |   | 3 practical salinity units or scale (PSU or PSS)                 |

**NONCONVENTIONAL POLLUTANTS**

| <b>Pollutant &amp; CAS No. (if available)</b> | <b>CAS Number (if available)</b> | <b>Recommended Analytical Protocol</b>                              | <b>Detection (DL)<sup>1</sup> µg/L unless specified</b> | <b>Quantitation Level (QL)<sup>2</sup> µg/L unless specified</b> |
|---|----------------------------------|---|---|--|
| Settleable Solids                             |                                  | SM2540 -F   |   | Sample and limit dependent                                       |
| Soluble Reactive Phosphorus (as P)            |                                  | SM4500-P E/F/G  | 3   | 10   |
| Sulfate (as mg/L SO <sub>4</sub> )            |                                  | SM4110-B  |   | 0.2 mg/L   |
| Sulfide (as mg/L S)                           |                                  | SM4500-S <sup>2</sup> F/D/E/G                                       |   | 0.2 mg/L   |
| Sulfite (as mg/L SO <sub>3</sub> )            |                                  | SM4500-SO3B   |   | 2 mg/L   |
| Temperature (max. 7-day avg.)                 |                                  | Analog recorder or Use micro-recording devices known as thermistors |   | 0.2° C   |
| Tin, Total                                    | 7440-31-5                        | 200.8   | 0.3   | 1.5  |
| Titanium, Total                               | 7440-32-6                        | 200.8   | 0.5   | 2.5  |
| Total Coliform                                |                                  | SM 9221B, 9222B, 9223B  | N/A   | Specified in method - sample aliquot dependent                   |
| Total Organic Carbon                          |                                  | SM5310-B/C/D  |   | 1 mg/L   |
| Total dissolved solids                        |                                  | SM2540 C  |   | 20 mg/L  |

| <i><b>PRIORITY POLLUTANTS</b></i>          | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/><i>µg/L unless<br/>specified</i></b> | <b>Quantitation<br/>Level (QL)<sup>2</sup><br/><i>µg/L unless<br/>specified</i></b> |
|--|-------------|--------------------------------------|--|--|---|
| <b>METALS, CYANIDE &amp; TOTAL PHENOLS</b> |             |                                      |  |  |   |
| Antimony, Total                            | 114         | 7440-36-0                            | 200.8                                      | 0.3  | 1.0   |
| Arsenic, Total                             | 115         | 7440-38-2                            | 200.8                                      | 0.1  | 0.5   |
| Beryllium, Total                           | 117         | 7440-41-7                            | 200.8                                      | 0.1  | 0.5   |
| Cadmium, Total                             | 118         | 7440-43-9                            | 200.8                                      | 0.05   | 0.25  |
| Chromium (hex) dissolved                   | 119         | 18540-29-9                           | SM3500-Cr C                                | 0.3  | 1.2   |
| Chromium, Total                            | 119         | 7440-47-3                            | 200.8                                      | 0.2  | 1.0   |
| Copper, Total                              | 120         | 7440-50-8                            | 200.8                                      | 0.4  | 2.0   |
| Lead, Total                                | 122         | 7439-92-1                            | 200.8                                      | 0.1  | 0.5   |
| Mercury, Total                             | 123         | 7439-97-6                            | 1631E                                      | 0.0002   | 0.0005  |
| Nickel, Total                              | 124         | 7440-02-0                            | 200.8                                      | 0.1  | 0.5   |
| Selenium, Total                            | 125         | 7782-49-2                            | 200.8                                      | 1.0  | 1.0   |
| Silver, Total                              | 126         | 7440-22-4                            | 200.8                                      | 0.04   | 0.2   |
| Thallium, Total                            | 127         | 7440-28-0                            | 200.8                                      | 0.09   | 0.36  |

| <i><b>PRIORITY POLLUTANTS</b></i>                             | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/><i>µg/L unless<br/>specified</i></b> | <b>Quantitation<br/>Level (QL)<sup>2</sup><br/><i>µg/L unless<br/>specified</i></b> |
|---|-------------|--------------------------------------|--|--|---|
| <b>METALS, CYANIDE &amp; TOTAL PHENOLS</b>                    |             |                                      |  |  |   |
| Zinc, Total   | 128         | 7440-66-6                            | 200.8                                      | 0.5  | 2.5   |
| Cyanide, Total  | 121         | 57-12-5                              | 335.4                                      | 5  | 10  |
| Cyanide, Weak Acid Dissociable                                | 121         |                                      | SM4500-CN I                                | 5  | 10  |
| Cyanide, Free Amenable to Chlorination<br>(Available Cyanide) | 121         |                                      | SM4500-CN G                                | 5  | 10  |
| Phenols, Total  | 65          |                                      | EPA 420.1                                  |  | 50  |

| <i><b>PRIORITY POLLUTANTS</b></i> | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/><i>µg/L unless<br/>specified</i></b> | <b>Quantitation<br/>Level (QL)<sup>2</sup><br/><i>µg/L unless<br/>specified</i></b> |
|-----------------------------------|-------------|--------------------------------------|--|--|---|
| <b>ACID COMPOUNDS</b>             |             |                                      |  |  |   |
| 2-Chlorophenol                    | 24          | 95-57-8                              | 625.1                                      | 3.3  | 9.9   |
| 2,4-Dichlorophenol                | 31          | 120-83-2                             | 625.1                                      | 2.7  | 8.1   |
| 2,4-Dimethylphenol                | 34          | 105-67-9                             | 625.1                                      | 2.7  | 8.1   |

| <i>PRIORITY POLLUTANTS</i>                             | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/><i>µg/L unless<br/>specified</i></b> | <b>Quantitation<br/>Level (QL)<sup>2</sup><br/><i>µg/L unless<br/>specified</i></b> |
|--|-------------|--------------------------------------|--|--|---|
| <b>ACID COMPOUNDS</b>                                  |             |                                      |  |  |   |
| 4,6-dinitro-o-cresol (2-methyl-4,6,-<br>dinitrophenol) | 60          | 534-52-1                             | 625.1/1625B                                | 24   | 72  |
| 2,4 dinitrophenol                                      | 59          | 51-28-5                              | 625.1                                      | 42   | 126   |
| 2-Nitrophenol  | 57          | 88-75-5                              | 625.1                                      | 3.6  | 10.8  |
| 4-Nitrophenol  | 58          | 100-02-7                             | 625.1                                      | 2.4  | 7.2   |
| Parachlorometa cresol (4-chloro-3-<br>methylphenol)    | 22          | 59-50-7                              | 625.1                                      | 3.0  | 9.0   |
| Pentachlorophenol                                      | 64          | 87-86-5                              | 625.1                                      | 3.6  | 10.8  |
| Phenol   | 65          | 108-95-2                             | 625.1                                      | 1.5  | 4.5   |
| 2,4,6-Trichlorophenol                                  | 21          | 88-06-2                              | 625.1                                      | 2.7  | 8.1   |

| <i>PRIORITY POLLUTANTS</i>                    | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|---|------|------------------------------|------------------------------------|---|---|
| <b>VOLATILE COMPOUNDS</b>                     |      |                              |                                    |   |   |
| Acrolein                                      | 2    | 107-02-8                     | 624                                | 5   | 10  |
| Acrylonitrile                                 | 3    | 107-13-1                     | 624                                | 1.0   | 2.0   |
| Benzene                                       | 4    | 71-43-2                      | 624.1                              | 4.4   | 13.2  |
| Bromoform                                     | 47   | 75-25-2                      | 624.1                              | 4.7   | 14.1  |
| Carbon tetrachloride                          | 6    | 56-23-5                      | 624.1/601 or<br>SM6230B            | 2.8   | 8.4   |
| Chlorobenzene                                 | 7    | 108-90-7                     | 624.1                              | 6.0   | 18.0  |
| Chloroethane                                  | 16   | 75-00-3                      | 624/601                            | 1.0   | 2.0   |
| 2-Chloroethylvinyl Ether                      | 19   | 110-75-8                     | 624                                | 1.0   | 2.0   |
| Chloroform                                    | 23   | 67-66-3                      | 624.1 or SM6210B                   | 1.6   | 4.8   |
| Dibromochloromethane<br>(chlordibromomethane) | 51   | 124-48-1                     | 624.1                              | 3.1   | 9.3   |
| 1,2-Dichlorobenzene                           | 25   | 95-50-1                      | 624                                | 1.9   | 7.6   |
| 1,3-Dichlorobenzene                           | 26   | 541-73-1                     | 624                                | 1.9   | 7.6   |
| 1,4-Dichlorobenzene                           | 27   | 106-46-7                     | 624                                | 4.4   | 17.6  |

| <i>PRIORITY POLLUTANTS</i>  | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/><i>µg/L unless<br/>specified</i></b> | <b>Quantitation<br/>Level (QL)<sup>2</sup><br/><i>µg/L unless<br/>specified</i></b> |
|---|-------------|--------------------------------------|--|--|---|
| <b>VOLATILE COMPOUNDS</b>   |             |                                      |  |  |   |
| Dichlorobromomethane  | 48          | 75-27-4                              | 624.1                                      | 2.2  | 6.6   |
| 1,1-Dichloroethane  | 13          | 75-34-3                              | 624.1                                      | 4.7  | 14.1  |
| 1,2-Dichloroethane  | 10          | 107-06-2                             | 624.1                                      | 2.8  | 8.4   |
| 1,1-Dichloroethylene  | 29          | 75-35-4                              | 624.1                                      | 2.8  | 8.4   |
| 1,2-Dichloropropane   | 32          | 78-87-5                              | 624.1                                      | 6.0  | 18.0  |
| 1,3-dichloropropene (mixed isomers)<br>(1,2-dichloropropylene) <sup>6</sup> | 33          | 542-75-6                             | 624.1                                      | 5.0  | 15.0  |
| Ethylbenzene  | 38          | 100-41-4                             | 624.1                                      | 7.2  | 21.6  |
| Methyl bromide (Bromomethane)   | 46          | 74-83-9                              | 624/601                                    | 5.0  | 10.0  |
| Methyl chloride (Chloromethane)   | 45          | 74-87-3                              | 624  | 1.0  | 2.0   |
| Methylene chloride  | 44          | 75-09-2                              | 624.1                                      | 2.8  | 8.4   |
| 1,1,2,2-Tetrachloroethane   | 15          | 79-34-5                              | 624.1                                      | 6.9  | 20.7  |
| Tetrachloroethylene   | 85          | 127-18-4                             | 624.1                                      | 4.1  | 12.3  |
| Toluene   | 86          | 108-88-3                             | 624.1                                      | 6.0  | 18.0  |

| <i>PRIORITY POLLUTANTS</i>                       | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|--|------|------------------------------|------------------------------------|---|---|
| <b>VOLATILE COMPOUNDS</b>                        |      |                              |                                    |   |   |
| 1,2-Trans-Dichloroethylene (Ethylene dichloride) | 30   | 156-60-5                     | 624.1                              | 1.6   | 4.8   |
| 1,1,1-Trichloroethane                            | 11   | 71-55-6                      | 624.1                              | 3.8   | 11.4  |
| 1,1,2-Trichloroethane                            | 14   | 79-00-5                      | 624.1                              | 5.0   | 15.0  |
| Trichloroethylene                                | 87   | 79-01-6                      | 624.1                              | 1.9   | 5.7   |
| Vinyl chloride                                   | 88   | 75-01-4                      | 624/SM6200B                        | 1.0   | 2.0   |

| <i>PRIORITY POLLUTANTS</i>   | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|--|------|------------------------------|------------------------------------|---|---|
| <b>BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)</b> |      |                              |                                    |   |   |
| Acenaphthene   | 1    | 83-32-9                      | 625.1                              | 1.9   | 5.7   |
| Acenaphthylene   | 77   | 208-96-8                     | 625.1                              | 3.5   | 10.5  |
| Anthracene   | 78   | 120-12-7                     | 625.1                              | 1.9   | 5.7   |

| <i>PRIORITY POLLUTANTS</i>   | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|--|------|------------------------------|------------------------------------|---|---|
| <b>BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)</b>       |      |                              |                                    |   |   |
| Benzidine  | 5    | 92-87-5                      | 625.1                              | 44  | 132   |
| Benzyl butyl phthalate   | 67   | 85-68-7                      | 625.1                              | 2.5   | 7.5   |
| Benzo( <i>a</i> )anthracene  | 72   | 56-55-3                      | 625.1                              | 7.8   | 23.4  |
| Benzo( <i>b</i> )fluoranthene (3,4-<br>benzofluoranthene) <sup>7</sup>   | 74   | 205-99-2                     | 610/625.1                          | 4.8   | 14.4  |
| <b>Benzo(<i>j</i>)fluoranthene</b> <sup>7</sup>                          |      | <b>205-82-3</b>              | 625                                | 0.5   | 1.0   |
| Benzo( <i>k</i> )fluoranthene (11,12-<br>benzofluoranthene) <sup>7</sup> | 75   | 207-08-9                     | 610/625.1                          | 2.5   | 7.5   |
| <b>Benzo(<i>r,s,t</i>)pentaphene</b>                                     |      | <b>189-55-9</b>              | 625                                | 1.3   | 5.0   |
| Benzo( <i>a</i> )pyrene  | 73   | 50-32-8                      | 610/625.1                          | 2.5   | 7.5   |
| Benzo( <i>ghi</i> )Perylene  | 79   | 191-24-2                     | 610/625.1                          | 4.1   | 12.3  |
| Bis(2- <i>chloroethoxy</i> )methane                                      | 43   | 111-91-1                     | 625.1                              | 5.3   | 15.9  |
| Bis(2- <i>chloroethyl</i> )ether   | 18   | 111-44-4                     | 611/625.1                          | 5.7   | 17.1  |
| Bis(2- <i>chloroisopropyl</i> )ether                                     | 42   | 39638-32-9                   | 625                                | 0.5   | 1.0   |
| Bis(2- <i>ethylhexyl</i> )phthalate                                      | 66   | 117-81-7                     | 625.1                              | 2.5   | 7.5   |

| <i>PRIORITY POLLUTANTS</i>   | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|--|------|------------------------------|------------------------------------|---|---|
| <b>BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)</b> |      |                              |                                    |   |   |
| 4-Bromophenyl phenyl ether   | 41   | 101-55-3                     | 625.1                              | 1.9   | 5.7   |
| 2-Chloronaphthalene  | 20   | 91-58-7                      | 625.1                              | 1.9   | 5.7   |
| 4-Chlorophenyl phenyl ether  | 40   | 7005-72-3                    | 625.1                              | 4.2   | 12.6  |
| Chrysene   | 76   | 218-01-9                     | 610/625.1                          | 2.5   | 7.5   |
| <b>Dibenzo (a,h)acridine</b>                                       |      | <b>226-36-8</b>              | 610M/625M                          | 2.5   | 10.0  |
| <b>Dibenzo (a,j)acridine</b>                                       |      | <b>224-42-0</b>              | 610M/625M                          | 2.5   | 10.0  |
| Dibenzo(a-h)anthracene (1,2,5,6-dibenzanthracene)                  | 82   | 53-70-3                      | 625.1                              | 2.5   | 7.5   |
| <b>Dibenzo(a,e)pyrene</b>  |      | 192-65-4                     | 610M/625M                          | 2.5   | 10.0  |
| <b>Dibenzo(a,h)pyrene</b>  |      | 189-64-0                     | 625M                               | 2.5   | 10.0  |
| 3,3-Dichlorobenzidine  | 28   | 91-94-1                      | 605/625.1                          | 16.5  | 49.5  |
| Diethyl phthalate  | 70   | 84-66-2                      | 625.1                              | 1.9   | 5.7   |
| Dimethyl phthalate   | 71   | 131-11-3                     | 625.1                              | 1.6   | 4.8   |
| Di-n-butyl phthalate   | 68   | 84-74-2                      | 625.1                              | 2.5   | 7.5   |

| <i>PRIORITY POLLUTANTS</i>   | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|--|------|------------------------------|------------------------------------|---|---|
| <b>BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)</b> |      |                              |                                    |   |   |
| 2,4-dinitrotoluene   | 35   | 121-14-2                     | 609/625.1                          | 5.7   | 17.1  |
| 2,6-dinitrotoluene   | 36   | 606-20-2                     | 609/625.1                          | 1.9   | 5.7   |
| Di-n-octyl phthalate   | 69   | 117-84-0                     | 625.1                              | 2.5   | 7.5   |
| 1,2-Diphenylhydrazine ( <i>as Azobenzene</i> )                     | 37   | 122-66-7                     | 1625B                              | 5.0   | 20  |
| Fluoranthene   | 39   | 206-44-0                     | 625.1                              | 2.2   | 6.6   |
| Fluorene   | 80   | 86-73-7                      | 625.1                              | 1.9   | 5.7   |
| Hexachlorobenzene  | 9    | 118-74-1                     | 612/625.1                          | 1.9   | 5.7   |
| Hexachlorobutadiene  | 52   | 87-68-3                      | 625.1                              | 0.9   | 2.7   |
| Hexachlorocyclopentadiene  | 53   | 77-47-4                      | 1625B/625                          | 2.0   | 4.0   |
| Hexachloroethane   | 12   | 67-72-1                      | 625.1                              | 1.6   | 4.8   |
| Indeno(1,2,3- <i>cd</i> )Pyrene                                    | 83   | 193-39-5                     | 610/625.1                          | 3.7   | 11.1  |
| Isophorone   | 54   | 78-59-1                      | 625.1                              | 2.2   | 6.6   |
| <b>3-Methyl cholanthrene</b>                                       |      | <b>56-49-5</b>               | 625                                | 2.0   | 8.0   |
| Naphthalene  | 55   | 91-20-3                      | 625.1                              | 1.6   | 4.8   |

| <i>PRIORITY POLLUTANTS</i>   | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|--|------|------------------------------|------------------------------------|---|---|
| <b>BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)</b> |      |                              |                                    |   |   |
| Nitrobenzene   | 56   | 98-95-3                      | 625.1                              | 1.9   | 5.7   |
| N-Nitrosodimethylamine   | 61   | 62-75-9                      | 607/625                            | 2.0   | 4.0   |
| N-Nitrosodi-n-propylamine  | 63   | 621-64-7                     | 607/625                            | 0.5   | 1.0   |
| N-Nitrosodiphenylamine   | 62   | 86-30-6                      | 625                                | 1.0   | 2.0   |
| <b>Perylene</b>  |      | <b>198-55-0</b>              | 625                                | 1.9   | 7.6   |
| Phenanthrene   | 81   | 85-01-8                      | 625.1                              | 5.4   | 16.2  |
| Pyrene   | 84   | 129-00-0                     | 625.1                              | 1.9   | 5.7   |
| 1,2,4-Trichlorobenzene   | 8    | 120-82-1                     | 625.1                              | 1.9   | 5.7   |

| <i>PRIORITY POLLUTANT</i>                              | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|--|------|------------------------------|------------------------------------|---|---|
| <b>DIOXIN</b>  |      |                              |                                    |   |   |
| 2,3,7,8-Tetra-Chlorodibenzo-P-Dioxin<br>(2,3,7,8 TCDD) | 129  | 1746-01-6                    | 1613B                              | 1.3 pg/L  | 5 pg/L  |

| <i>PRIORITY POLLUTANTS</i> | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|----------------------------|------|------------------------------|------------------------------------|---|---|
| <b>PESTICIDES/PCBs</b>     |      |                              |                                    |   |   |
| Aldrin                     | 89   | 309-00-2                     | 608.3                              | 4.0 ng/L  | 12 ng/L   |
| alpha-BHC                  | 102  | 319-84-6                     | 608.3                              | 3.0 ng/L  | 9.0 ng/L  |
| beta-BHC                   | 103  | 319-85-7                     | 608.3                              | 6.0 ng/L  | 18 ng/L   |
| gamma-BHC (Lindane)        | 104  | 58-89-9                      | 608.3                              | 4.0 ng/L  | 12 ng/L   |
| delta-BHC                  | 105  | 319-86-8                     | 608.3                              | 9.0 ng/L  | 27 ng/L   |
| Chlordane <sup>8</sup>     | 91   | 57-74-9                      | 608.3                              | 14 ng/L   | 42 ng/L   |
| 4,4'-DDT                   | 92   | 50-29-3                      | 608.3                              | 12 ng/L   | 36 ng/L   |
| 4,4'-DDE                   | 93   | 72-55-9                      | 608.3                              | 4.0 ng/L  | 12 ng/L   |
| 4,4' DDD                   | 94   | 72-54-8                      | 608.3                              | 11ng/L  | 33 ng/L   |
| Dieldrin                   | 90   | 60-57-1                      | 608.3                              | 2.0 ng/L  | 6.0 ng/L  |
| alpha-Endosulfan           | 95   | 959-98-8                     | 608.3                              | 14 ng/L   | 42 ng/L   |
| beta-Endosulfan            | 96   | 33213-65-9                   | 608.3                              | 4.0 ng/L  | 12 ng/L   |
| Endosulfan Sulfate         | 97   | 1031-07-8                    | 608.3                              | 66 ng/L   | 198 ng/L  |

| <i>PRIORITY POLLUTANTS</i> | PP # | CAS Number<br>(if available) | Recommended<br>Analytical Protocol | Detection (DL) <sup>1</sup><br><i>µg/L unless<br/>specified</i> | Quantitation<br>Level (QL) <sup>2</sup><br><i>µg/L unless<br/>specified</i> |
|----------------------------|------|------------------------------|------------------------------------|---|---|
| <b>PESTICIDES/PCBs</b>     |      |                              |                                    |   |   |
| Endrin                     | 98   | 72-20-8                      | 608.3                              | 6.0 ng/L  | 18 ng/L   |
| Endrin Aldehyde            | 99   | 7421-93-4                    | 608.3                              | 23 ng/L   | 70 ng/L   |
| Heptachlor                 | 100  | 76-44-8                      | 608.3                              | 3.0 ng/L  | 9.0 ng/L  |
| Heptachlor Epoxide         | 101  | 1024-57-3                    | 608.3                              | 83 ng/L   | 249 ng/L  |
| PCB-1242 <sup>9</sup>      | 106  | 53469-21-9                   | 608.3                              | 0.065   | 0.195   |
| PCB-1254                   | 107  | 11097-69-1                   | 608.3                              | 0.065   | 0.195   |
| PCB-1221                   | 108  | 11104-28-2                   | 608.3                              | 0.065   | 0.195   |
| PCB-1232                   | 109  | 11141-16-5                   | 608.3                              | 0.065   | 0.195   |
| PCB-1248                   | 110  | 12672-29-6                   | 608.3                              | 0.065   | 0.195   |
| PCB-1260                   | 111  | 11096-82-5                   | 608.3                              | 0.065   | 0.195   |
| PCB-1016 <sup>9</sup>      | 112  | 12674-11-2                   | 608.3                              | 0.065   | 0.195   |
| Toxaphene                  | 113  | 8001-35-2                    | 608.3                              | 240 ng/L  | 720 ng/L  |

1. Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136,

Appendix B.

2. Quantitation Level (QL) also known as Minimum Level of Quantitation (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assuming that the lab has used all method-specified sample weights, volumes, and cleanup procedures. The QL is calculated by multiplying the MDL by 3.18 and rounding the result to the number nearest to  $(1, 2, \text{ or } 5) \times 10^n$ , where n is an integer. (64 FR 30417).  
ALSO GIVEN AS:  
The smallest detectable concentration of analyte greater than the Detection Limit (DL) where the accuracy (precision & bias) achieves the objectives of the intended purpose. (Report of the Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act Programs Submitted to the US Environmental Protection Agency December 2007).
3. Soluble Biochemical Oxygen Demand method note: First, filter the sample through a Millipore Nylon filter (or equivalent) - pore size of 0.45-0.50 um (prep all filters by filtering 250 ml of laboratory grade deionized water through the filter and discard). Then, analyze sample as per method 5210-B.
4. NWTPH Dx - Northwest Total Petroleum Hydrocarbons Diesel Extended Range – see <https://fortress.wa.gov/ecy/publications/documents/97602.pdf>
5. NWTPH Gx - Northwest Total Petroleum Hydrocarbons Gasoline Extended Range – see <https://fortress.wa.gov/ecy/publications/documents/97602.pdf>
6. 1, 3-dichloroproylene (mixed isomers) You may report this parameter as two separate parameters: cis-1, 3-dichloropropene (10061-01-5) and trans-1, 3-dichloropropene (10061-02-6).
7. Total Benzofluoranthenes - Because Benzo(b)fluoranthene, Benzo(j)fluoranthene and Benzo(k)fluoranthene co-elute you may report these three isomers as total benzofluoranthenes.
8. Chlordane – You may report alpha-chlordane (5103-71-9) and gamma-chlordane (5103-74-2) in place of chlordane (57-74-9). If you report alpha and gamma-chlordane, the DL/PQLs that apply are 14/42 ng/L.
9. PCB 1016 & PCB 1242 – You may report these two PCB compounds as one parameter called PCB 1016/1242.