

Issuance Date: May 19, 2021  
Effective Date: July 1, 2021  
Expiration Date: June 30, 2026

**National Pollutant Discharge Elimination System  
Waste Discharge Permit No. WA0022403**

State of Washington  
DEPARTMENT OF ECOLOGY  
Northwest Regional Office  
PO Box 330316  
Shoreline, WA 98133-9716

In compliance with the provisions of  
The State of Washington Water Pollution Control Law  
Chapter 90.48 Revised Code of Washington  
The State of Washington Reclaimed Water Act,  
Chapter 90.46 Revised Code of Washington  
and  
The Federal Water Pollution Control Act  
(The Clean Water Act)  
Title 33 United States Code, Section 1342 et seq.

**City of Snoqualmie Water Reclamation Facility**  
PO Box 987  
Snoqualmie, WA 98065

is authorized to discharge treated wastewater and to produce and distribute reclaimed water in  
accordance with the Special, Reclaimed Water, and General Conditions that follow.

**Plant Location:**

38190 SE Stearns Road  
Snoqualmie, WA 98065

**Receiving Water:**

Snoqualmie River

**Treatment Type:**

Oxidation ditch followed by sand filtration

**Reclaimed Water Production:**

Class A water for irrigation uses



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Washington State Department of Ecology

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## Summary of Permit Report Submittals

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

**Table 1 – Summary of Permit Report Submittals**

| Permit Section | Submittal                                                                      | Frequency      | First Submittal Date                 |
|----------------|--------------------------------------------------------------------------------|----------------|--------------------------------------|
| S3.A           | Discharge Monitoring Report (DMR)                                              | Monthly        | August 15, 2021                      |
| S3.A           | Discharge Monitoring Report (DMR)                                              | Quarterly      | April 15, 2024                       |
| S3.F           | Reporting Permit Violations                                                    | As necessary   |                                      |
| S4.E           | Infiltration and Inflow Evaluation                                             | 1/permit cycle | March 31, 2023                       |
| S5.F           | Bypass Notification                                                            | As necessary   |                                      |
| S5.G           | Operations and Maintenance Manual Update                                       | 1/permit cycle | December 15, 2023                    |
| S6.E           | Industrial User Survey Submittal                                               | 1/permit cycle | December 31, 2022                    |
| S8             | Spill Control Plan Submittal                                                   | 1/permit cycle | May 31, 2023                         |
| S9.A           | Effluent Mixing Plan of Study                                                  | 1/permit cycle | July 31, 2023                        |
| S9.B           | Effluent Mixing Report                                                         | 1/permit cycle | July 31, 2024                        |
| S10            | Acute Toxicity Effluent Test Results                                           | 2/permit cycle | March 30, 2024<br>September 30, 2024 |
| S11            | Chronic Toxicity Effluent Test Results                                         | 2/permit cycle | March 30, 2024<br>September 30, 2024 |
| S12            | Application for Permit Renewal                                                 | 1/permit cycle | December 31, 2025                    |
| R2.A           | Reclaimed Water Monitoring Report                                              | Monthly        | August 15, 2021                      |
| R3.B           | Annual Summary Report                                                          | Annual         | March 15, 2022                       |
| R3.G           | Reporting Violations of Reclaimed Water Production and Distribution Conditions | As necessary   |                                      |
| R4.B           | Service and Use Area Agreement Revisions                                       | As necessary   | June 30, 2022                        |
| R4.C           | Cross-connection Control Program Plan                                          | 1/permit cycle | June 30, 2025                        |
| R6.C           | Operations and Maintenance Manual Update                                       | 1/permit cycle | December 15, 2023                    |
| R8.A.1         | Draft engineering report – Distribution system improvements                    | 1/permit cycle | July 1, 2023                         |
| R8.A.2         | Final engineering report – Distribution system improvements                    | 1/permit cycle | December 31, 2023                    |
| R8.A.3         | Final plans and specifications – Distribution system improvements              | 1/permit cycle | December 31, 2024                    |
| R8.A.4         | Declaration of construction – Distribution system improvements                 | 1/permit cycle | June 30, 2026                        |
| R9             | Application for Reclaimed Water Permit Renewal                                 | 1/permit cycle | December 31, 2025                    |
| G1             | Notice of Change in Authorization                                              | As necessary   |                                      |
| G4             | Reporting Planned Changes                                                      | 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   |                                      |
| G20            | Compliance Schedules                                                           | As necessary   |                                      |
| G21            | Contract Submittal                                                             | As necessary   |                                      |

## Special Conditions

### S1. Discharge limits

#### S1.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 level in excess of, that identified and authorized by this permit violates the terms and conditions of this permit.

Beginning on the effective date of this permit, the Permittee may discharge treated domestic wastewater to the Snoqualmie River at the permitted location subject to compliance with the following limits:

**Table 2 – Effluent Limits: Outfall 001**

**Latitude: 47.53916 Longitude: -121.83222**

| Parameter                                                                                      | Average Monthly <sup>a</sup>                                                                                                                                                                                                                                                                                                                                             | Average Weekly <sup>b</sup> |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 5-day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )                              | 25 milligrams/liter (mg/L)<br>85% removal of influent CBOD <sub>5</sub>                                                                                                                                                                                                                                                                                                  | 40 mg/L                     |
| CBOD <sub>5</sub> Mass<br><i>Effective November – July Only</i>                                | 448 pounds/day (lbs/day)                                                                                                                                                                                                                                                                                                                                                 | 717 lbs/day                 |
| Total Suspended Solids (TSS)                                                                   | 30 mg/L<br>538 lbs/day<br>85% removal of influent TSS                                                                                                                                                                                                                                                                                                                    | 45 mg/L<br>807 lbs/day      |
| Parameter                                                                                      | Minimum                                                                                                                                                                                                                                                                                                                                                                  | Maximum                     |
| pH <sup>c</sup>                                                                                | 6.3 standard units                                                                                                                                                                                                                                                                                                                                                       | 9.0 standard units          |
| Parameter                                                                                      | Monthly Geometric Mean                                                                                                                                                                                                                                                                                                                                                   | Weekly Geometric Mean       |
| Fecal Coliform Bacteria <sup>d</sup>                                                           | 200/100 milliliter (mL)                                                                                                                                                                                                                                                                                                                                                  | 400/100 mL                  |
| Parameter                                                                                      | Average Monthly                                                                                                                                                                                                                                                                                                                                                          | Maximum Daily <sup>e</sup>  |
| CBOD <sub>5</sub> Mass<br><i>Effective August – October Only</i>                               | 51.6 lbs/day                                                                                                                                                                                                                                                                                                                                                             | 206 lbs/day                 |
| Total Ammonia mass (as NH <sub>3</sub> -N)<br><i>Effective August – October Only</i>           | 21.6 lbs/day                                                                                                                                                                                                                                                                                                                                                             | 68.7 lbs/day                |
| Temperature, Maximum 7-Day Running Average (7DADMax)<br><i>Effective June – September Only</i> | N/A                                                                                                                                                                                                                                                                                                                                                                      | 24.7° C                     |
| <sup>a</sup>                                                                                   | Average monthly effluent limit means the highest allowable average of daily discharges over a calendar month. To calculate the discharge value to compare to the limit, you add the value of each daily discharge measured during a calendar month and divide this sum by the total number of daily discharges measured. See footnote c for fecal coliform calculations. |                             |
| <sup>b</sup>                                                                                   | Average weekly discharge limit 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. See footnote c for fecal coliform calculations.                                                         |                             |
| <sup>c</sup>                                                                                   | The pH of the discharge must be within the range bound by the listed minimum and maximum limits. The Permittee must report the instantaneous maximum and minimum pH recorded daily. Do not average pH values.                                                                                                                                                            |                             |
| <sup>d</sup>                                                                                   | Ecology provides directions to calculate the monthly and the weekly geometric mean in publication No. 04-10-020, Information Manual for Treatment Plant Operators available at:<br><a href="https://apps.ecology.wa.gov/publications/SummaryPages/0410020.html">https://apps.ecology.wa.gov/publications/SummaryPages/0410020.html</a>                                   |                             |
| <sup>e</sup>                                                                                   | Maximum daily effluent limit is the highest allowable daily discharge. The daily discharge is the average 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. This does not apply to pH or temperature.            |                             |

## S1.B. Mixing zone authorization

### Mixing zone for Outfall 001



The following paragraphs define the maximum boundaries of the mixing zones:

#### Chronic mixing zone

The width of the chronic mixing zone is limited to a distance of 42.5 feet. The length of the chronic mixing zone extends 310.5 feet downstream and 100 feet upstream of the outfall. The mixing zone extends from the discharge port to the top of the water surface. The concentration of pollutants at the edge of the chronic zone must meet chronic aquatic life criteria and human health criteria.

#### Acute mixing zone

The width of the acute mixing zone is limited to a distance of 42.5 feet in any horizontal direction from the outfall. The length of the acute mixing zone extends 31.0 feet downstream and 10 feet upstream of the outfall. The mixing zone extends from the discharge port to the top of the water surface. The concentration of pollutants at the edge of the acute zone must meet acute aquatic life criteria.

**Table 3 – Available Dilution (dilution factor)**

| Criteria                               | Factor |
|----------------------------------------|--------|
| Acute Aquatic Life Criteria            | 2.4    |
| Chronic Aquatic Life Criteria          | 35.5   |
| Human Health Criteria - Carcinogen     | 183.3  |
| Human Health Criteria - Non-carcinogen | 49.3   |

## S2. Monitoring requirements

### S2.A. Monitoring schedule

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

**Table 4 – Wastewater Influent**

Wastewater Influent means the raw sewage flow from the collection system into the treatment facility. Sample the wastewater entering the headworks of the treatment plant excluding any side-stream returns from inside the plant.

| Parameter                                     | Units & Speciation | Minimum Sampling Frequency | Sample Type                  |
|-----------------------------------------------|--------------------|----------------------------|------------------------------|
| Flow                                          | MGD                | Continuous <sup>1</sup>    | Recording                    |
| Biochemical Oxygen Demand (BOD <sub>5</sub> ) | mg/L               | 2/month                    | 24-hr Composite <sup>2</sup> |
| BOD <sub>5</sub>                              | lbs/day            | 2/month                    | Calculated <sup>3</sup>      |
| CBOD <sub>5</sub>                             | mg/L               | 3/week                     | 24-hr Composite              |
| TSS                                           | mg/L               | 3/week                     | 24-hr Composite              |
| TSS                                           | lbs/day            | 3/week                     | Calculated                   |

**Table 5 – Final Wastewater Effluent**

Final Wastewater Effluent means wastewater exiting the last treatment process or operation. Typically, this is after or at the exit from the UV disinfection system. The Permittee may take effluent samples for the BOD<sub>5</sub> analysis before or after the disinfection process. If taken after, the Permittee must dechlorinate and reseed the sample.

| Parameter                           | Units & Speciation        | Minimum Sampling Frequency | Sample Type             |
|-------------------------------------|---------------------------|----------------------------|-------------------------|
| Flow                                | MGD                       | Continuous                 | Metered/recorded        |
| CBOD <sub>5</sub>                   | mg/L                      | 3/week                     | 24-hr Composite         |
| CBOD <sub>5</sub>                   | lbs/day                   | 3/week                     | Calculated              |
| CBOD <sub>5</sub>                   | % removal                 | 1/month                    | Calculated <sup>4</sup> |
| TSS                                 | mg/L                      | 3/week                     | 24-hr Composite         |
| TSS                                 | lbs/day                   | 3/week                     | Calculated              |
| TSS                                 | % removal                 | 1/month                    | Calculated              |
| Fecal Coliform <sup>5</sup>         | # /100 ml                 | 3/week                     | Grab <sup>6</sup>       |
| E. Coli <sup>7</sup>                | CFU/100 mL                | 3/week (2024, only)        | Grab                    |
| pH <sup>8</sup>                     | Standard Units            | Continuous                 | Metered/recorded        |
| Temperature <sup>9</sup>            | Degrees centigrade (°C)   | Continuous                 | Measurement             |
| 7-DAD Max Temperature <sup>10</sup> | °C                        | 1/day                      | Calculated              |
| Alkalinity                          | mg/L as CaCO <sub>3</sub> | 1/month                    | 24-hr Composite         |
| Total Phosphorus                    | mg/L as P                 | Monthly                    | 24-hr Composite         |
| Soluble Reactive Phosphorus         | mg/L as P                 | 1/week                     | 24-hr Composite         |
| Soluble Reactive Phosphorus         | lbs/day as P              | 1/week                     | Calculated              |
| Total Ammonia                       | mg/L as N                 | 1/week                     | 24-hr Composite         |
| Total Ammonia                       | lbs/day as N              | 1/week                     | Calculated              |
| Nitrate + Nitrite Nitrogen          | mg/L as N                 | Monthly                    | 24-hr Composite         |
| Total Kjeldahl Nitrogen (TKN)       | mg/L as N                 | Monthly                    | 24-hr Composite         |



**Table 6 – Whole Effluent Toxicity Testing – Final Wastewater Effluent**

| Parameter                | Units & Speciation                         | Minimum Sampling Frequency                       | Sample Type     |
|--------------------------|--------------------------------------------|--------------------------------------------------|-----------------|
| Acute Toxicity Testing   | See Condition S11 for testing requirements | 2/permit cycle, dates specified in Condition S11 | 24-hr Composite |
| Chronic Toxicity Testing | See Condition S12 for testing requirements | 2/permit cycle, dates specified in Condition S12 | 24-hr Composite |

**Table 7 – Permit Renewal Application Requirements – Final Wastewater Effluent**

The Permittee must record and report the wastewater treatment plant flow discharged on the day it collects the sample for priority pollutant testing with the discharge monitoring report.

| Parameter                               | Units & Speciation                 | Minimum Sampling Frequency     | Sample Type                         |
|-----------------------------------------|------------------------------------|--------------------------------|-------------------------------------|
| Dissolved Oxygen                        | mg/L                               | Quarterly <sup>11</sup> , 2024 | Grab                                |
| Oil and Grease                          | mg/L                               | Quarterly, 2024 only           | Grab                                |
| Total Dissolved Solids                  | mg/L                               | Quarterly, 2024 only           | 24-hr Composite                     |
| Total Hardness                          | mg/L                               | Quarterly, 2024 only           | Grab                                |
| Cyanide                                 | micrograms/liter (µg/L)            | Quarterly, 2024 only           | Grab                                |
| Total Phenolic Compounds                | µg/L                               | Quarterly, 2024 only           | Grab                                |
| Priority Pollutants (PP) – Total Metals | µg/L; nanograms (ng/L) for mercury | Quarterly, 2024 only           | 24-hr Composite<br>Grab for mercury |
| PP – Volatile Organic Compounds         | µg/L                               | Quarterly, 2024 only           | Grab                                |
| PP – Acid-extractable Compounds         | µg/L                               | Quarterly, 2024 only           | 24-hr Composite                     |
| PP – Base-neutral Compounds             | µg/L                               | Quarterly, 2024 only           | 24-hr Composite                     |
| PP – Pesticides/PCBs                    | ug/L or ng/L                       | Quarterly, 2024 only           | 24-hr Composite                     |

| Footnote | Information                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | Continuous means uninterrupted except for brief lengths of time for calibration, power failure, or unanticipated equipment repair or maintenance.                                                                                                                                                                                                                                                                |
| 2        | 24-hour composite means a series of individual samples collected over a 24-hour period into a single container, and analyzed as one sample.                                                                                                                                                                                                                                                                      |
| 3        | Calculated means figured concurrently with the respective sample, using the following formula:<br>Concentration (in mg/L) X Flow (in MGD) X Conversion Factor (8.34) = lbs/day                                                                                                                                                                                                                                   |
| 4        | % removal = $\frac{\text{Influent concentration (mg/L)} - \text{Effluent concentration (mg/L)}}{\text{Influent concentration (mg/L)}} \times 100$<br><br>Calculate the percent (%) removal of BOD <sub>5</sub> and TSS using the above equation.                                                                                                                                                                 |
| 5        | Report a numerical value for fecal coliforms following the procedures in Ecology's <i>Information Manual for Wastewater Treatment Plant Operators</i> , Publication Number 04-10-020 available at: <a href="https://apps.ecology.wa.gov/publications/SummaryPages/0410020.html">https://apps.ecology.wa.gov/publications/SummaryPages/0410020.html</a> . Do not report a result as too numerous to count (TNTC). |
| 6        | Grab means an individual sample collected over a fifteen (15) minute, or less, period.                                                                                                                                                                                                                                                                                                                           |
| 7        | Permittee must test for E. Coli bacteria using the same grab sample used to test for fecal coliform bacteria.                                                                                                                                                                                                                                                                                                    |
| 8        | The Permittee must report the instantaneous maximum and minimum pH daily. Do not average pH values.                                                                                                                                                                                                                                                                                                              |

|    |                                                                                                                                                                                                                                              |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9  | Determine and report a daily maximum from continuous measurements integrated over a maximum half-hour interval. Continuous monitoring instruments must achieve an accuracy of 0.2 degrees C and the Permittee must verify accuracy annually. |
| 10 | Calculate a 7-DAD Max for each day by averaging each day's maximum temperature value with the daily maximum temperatures of the three (3) days prior and the three (3) days after that specific date.                                        |
| 11 | Quarterly sampling periods are January through March, April through June, July through September, and October through December                                                                                                               |

## **S2.B. 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. The Permittee must conduct representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions that may affect effluent quality.

Sampling and analytical methods used to meet the monitoring requirements specified in this permit must conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 (or as applicable in 40 CFR subchapters N [Parts 400–471] or O [Parts 501-503]) unless otherwise specified in this permit. Ecology may only specify alternative methods for parameters without permit limits and for those parameters without an EPA approved test method in 40 CFR Part 136.

## **S2.C. Flow measurement and continuous monitoring devices**

The Permittee must:

1. Select and use appropriate flow measurement and continuous monitoring devices and methods consistent with accepted scientific practices.
2. Install, calibrate, and maintain these devices to ensure the accuracy of the measurements is consistent with the accepted industry standard, the manufacturer's recommendation, and approved O&M manual procedures for the device and the wastestream.
3. Calibrate continuous monitoring instruments weekly unless it can demonstrate a longer period is sufficient based on monitoring records. The Permittee:
  - a. May calibrate apparatus for continuous monitoring of dissolved oxygen by air calibration.
  - b. Must calibrate continuous pH measurement instruments using a grab sample analyzed in the lab with a pH meter calibrated with standard buffers and analyzed within 15 minutes of sampling.
  - c. Calibrate temperature probes using methods listed in manufacturer operation and maintenance manuals. Although calibration is not required if the Permittee uses recording devices certified by the manufacturer, the Permittee must verify accuracy of the temperature readings monthly by comparing the probe's temperature reading to an alcohol-based thermometer.
4. Use field measurement devices as directed by the manufacturer and do not use reagents beyond their expiration dates.
5. Calibrate flow-monitoring devices at a minimum frequency of at least one calibration per year.
6. Maintain calibration records for at least three years.

## **S2.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. The Permittee must obtain accreditation for conductivity and pH if it must receive accreditation or registration for other parameters.

## **S2.E. Request for reduction in monitoring**

The Permittee may request a reduction of the sampling frequency after twelve (12) months of monitoring. Ecology will review each request and at its discretion grant the request when it reissues the permit or by a permit modification.

The Permittee must:

1. Provide a written request.
2. Clearly state the parameters for which it is requesting reduced monitoring.
3. Clearly state the justification for the reduction.

## **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.

### **S3.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.
2. Ensure that DMRs are electronically submitted no later than the dates specified below, unless otherwise specified in this permit.
3. 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.
4. 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 **monthly** DMRs by the 15<sup>th</sup> day of the following month, with the first DMR due by August 15, 2021.
- b. Submit **quarterly** DMRs, unless otherwise specified in the permit, by the 15<sup>th</sup> 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 April 15, 2024, for the quarter beginning on January 1, 2024.

5. 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.
6. 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.
7. Report single analytical values between the detection level (DL) and the quantitation level (QL) by entering the estimated value, the code for estimated value/below quantitation limit (j) and any additional information in the comments. Submit a 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.

8. Not report zero for bacteria monitoring. Report as required by the laboratory method.
9. Calculate and report an arithmetic average value for each day for bacteria if multiple samples were taken in one day.
10. Calculate the geometric mean values for bacteria (unless otherwise specified in the permit) using:
  - a. The reported numeric value for all bacteria samples measured above the detection value except when it took multiple samples in one day. If the Permittee takes multiple samples in one day it must use the arithmetic average for the day in the geometric mean calculation.
  - b. The detection value for those samples measured below detection.
11. 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.
12. 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 detection value and the quantitation value for the sample analysis.
  - 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.
13. 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).

### **S3.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  
Northwest Regional Office  
PO Box 330316  
Shoreline, WA 98133-9716

### **S3.C. Records retention**

The Permittee must retain records of all monitoring information for a minimum of three (3) 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.

### **S3.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.

### **S3.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.

### **S3.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 thirty (30) days of sampling.

**a. Immediate reporting**

The Permittee must **immediately** report to Ecology and the Public Health of Seattle-King County (at the numbers listed below), all:

- Failures of the disinfection system when discharging to the Snoqualmie River via outfall #001.
- All collection system overflows that discharge to surface waters, stormwater conveyance systems or into areas open to public access.
- Plant bypasses resulting in a discharge to surface waters or into areas of public access.
- Any other failures of the sewage system that may impact surface water or public health.

Northwest Regional Office 206-594-0000

Public Health of Seattle-King County 206-477-8050

Additionally, for any sanitary sewer overflow (SSO) that discharges to a municipal separate storm sewer system (MS4), the Permittee must notify the appropriate MS4 owner or operator.

**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:

1. Any noncompliance that may endanger health or the environment, unless previously reported under immediate reporting requirements.
2. Any unanticipated bypass that causes an exceedance of an effluent limit in the permit (See Part S5.F, "Bypass Procedures").
3. Any upset that causes an exceedance of an effluent limit in the permit (See G.15, "Upset").
4. Any violation of a maximum daily or instantaneous maximum discharge limit for any of the pollutants in Section S1.A of this permit.

**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:

1. A description of the noncompliance and its cause.
2. The period of noncompliance, including exact dates and times.
3. The estimated time the Permittee expects the noncompliance to continue if not yet corrected.
4. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
5. 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.

**S3.G. Other reporting**

**a. 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> .

**b. 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.

**S3.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. Facility loading**

**S4.A. Design criteria**

The flows or waste loads for the permitted facility must not exceed the following design criteria:

**Table 8 – Design Criteria**

| Parameter                                           | Unit         |
|-----------------------------------------------------|--------------|
| Maximum Month Design Flow (MMDF)                    | 2.15 MGD     |
| BOD <sub>5</sub> Influent Loading for Maximum Month | 5,220 lb/day |
| TSS Influent Loading for Maximum Month              | 5,220 lb/day |

**S4.B. Plans for maintaining adequate capacity**

**a. Conditions triggering plan submittal**

The Permittee must submit a plan and a schedule for continuing to maintain capacity to Ecology when:

1. The actual flow or waste load reaches 85 percent of any one of the design criteria in S4.A for three consecutive months.
2. The projected plant flow or loading would reach design capacity within five years.

**b. Plan and schedule content**

The plan and schedule must identify the actions necessary to maintain adequate capacity for the expected population growth and to meet the limits and requirements of the permit. The Permittee must consider the following topics and actions in its plan.

1. Analysis of the present design and proposed process modifications
2. Reduction or elimination of excessive infiltration and inflow of uncontaminated ground and surface water into the sewer system
3. Limits on future sewer extensions or connections or additional waste loads
4. Modification or expansion of facilities
5. Reduction of industrial or commercial flows or waste loads

Engineering documents associated with the plan must meet the requirements of WAC 173-240-060, "Engineering Report," and be approved by Ecology prior to any construction.

**S4.C. Duty to mitigate**

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

**S4.D. Notification of new or altered sources**

1. The Permittee must submit written notice to Ecology whenever any new discharge or a substantial change in volume or character of an existing discharge into the wastewater treatment plant is proposed which:
  - a. Would interfere with the operation of, or exceed the design capacity of, any portion of the wastewater treatment plant.
  - b. Is not part of an approved general sewer plan or approved plans and specifications.
  - c. Is subject to pretreatment standards under 40 CFR Part 403 and Section 307(b) of the Clean Water Act.
2. This notice must include an evaluation of the wastewater treatment plant's ability to adequately transport and treat the added flow and/or waste load, the quality and volume of effluent to be discharged to the treatment plant, and the anticipated impact on the Permittee's effluent [40 CFR 122.42(b)].

**S4.E. Infiltration and inflow evaluation**

1. The Permittee must conduct an infiltration and inflow evaluation. Refer to the U.S. EPA publication, I/I Analysis and Project Certification, available as Publication No. 97-03 at: <https://apps.ecology.wa.gov/publications/SummaryPages/9703.html>
2. The Permittee may use monitoring records to assess measurable infiltration and inflow.
3. The Permittee must prepare a report summarizing any measurable infiltration and inflow. If infiltration and inflow have increased by more than 15 percent from that found in the previous report based on equivalent rainfall, the report must contain a plan and a schedule to locate the sources of infiltration and inflow and to correct the problem.



4. The Permittee must submit a report summarizing the results of the evaluation and any recommendations for corrective actions by March 31, 2023.

## **S5. Operation and maintenance**

The Permittee must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), which are installed to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance (O&M) includes, but is not limited to, performing periodic preventive maintenance and cleaning on all equipment and systems at intervals recommended by equipment manufacturers or as documented in an Ecology-approved (O&M); conducting routine inspections of the collection system to identify pipe defects or blockages that can cause sanitary sewer overflows; completing timely repairs or replacement of damaged equipment (including conveyance system components); keeping a daily operation logbook (paper or electronic); and using adequate laboratory controls and appropriate quality assurance procedures. This provision of the permit requires the Permittee to operate backup or auxiliary facilities or similar systems only when the operation is necessary to achieve compliance with the conditions of this permit.

### **S5.A. Certified operator**

This permitted facility must be operated by an operator certified by the state of Washington for at least a Class III plant. This operator must be in responsible charge of the day-to-day operation and maintenance of the wastewater treatment plant. An operator certified for at least a Class II plant must be in charge during all regularly scheduled shifts. The Permittee must notify Ecology when the operator in charge at the facility changes. It must provide the new operator's name and certification level and provide the name of the operator leaving the facility.

### **S5.B. Operation and maintenance program**

The Permittee must:

1. Institute an adequate operation and maintenance program for the entire sewage system.
2. Keep maintenance records on all major electrical, SCADA and mechanical components of the treatment plant, as well as the sewage system and pumping stations. Such records must clearly specify the frequency and type of maintenance recommended by the manufacturer and must show the frequency and type of maintenance performed.
3. Ensure all operations and maintenance tasks done on WWTP process equipment or systems, including process management and SCADA computer systems (including WRF control system servers and internal network control system infrastructure), are performed or supervised by an operator certified by the State of Washington. The Permittee may allow qualified mechanics, programmers, network engineers, electricians or other trained tradespersons appropriate for specific tasks to perform work on equipment as long as a certified operator is on site to supervise, authorize and verify that the work performed does not adversely impact facility operations, effluent quality, or process monitoring and alarm reliability.
4. Make maintenance records available for inspection at all times.

### **S5.C. Short-term reduction**

The Permittee must schedule any facility maintenance, which might require interruption of wastewater treatment and degrade effluent quality, during non-critical water quality periods and

carry this maintenance out according to the approved O&M manual or as otherwise approved by Ecology.

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limits on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee must:

1. Give written notification to Ecology, if possible, thirty (30) days prior to such activities.
2. Detail the reasons for, length of time of, and the potential effects of the reduced level of treatment.

This notification does not relieve the Permittee of its obligations under this permit.

#### **S5.D. Electrical power failure**

The Permittee must ensure that adequate safeguards prevent the discharge of untreated wastes or wastes not treated in accordance with the requirements of this permit during electrical power failure at the treatment plant and/or sewage lift stations. Adequate safeguards include, but are not limited to, alternate power sources, standby generator(s), or retention of inadequately treated wastes.

The Permittee must maintain Reliability Class II (EPA 430-99-74-001) at the wastewater treatment plant. Reliability Class II requires a backup power source sufficient to operate all vital components and critical lighting and ventilation during peak wastewater flow conditions. Vital components used to support the secondary processes (i.e., mechanical aerators or aeration basin air compressors) need not be operable to full levels of treatment, but must be sufficient to maintain the biota.

#### **S5.E. Prevent connection of inflow**

The Permittee must strictly enforce its sewer ordinances and not allow the connection of inflow (roof drains, foundation drains, etc.) to the sanitary sewer system.

#### **S5.F. Bypass procedures**

A bypass is the intentional diversion of waste streams from any portion of a treatment facility. This permit prohibits all bypasses except when the bypass is for essential maintenance, as authorized in Special Condition S5.F.1, or is approved by Ecology as an anticipated bypass following the procedures in S5.F.2.

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

This permit allows bypasses for essential maintenance of the treatment system when necessary to ensure efficient operation of the system. The Permittee may bypass the treatment system for essential maintenance only if doing so does not cause violations of effluent limits. The Permittee is not required to notify Ecology when bypassing for essential maintenance. However, the Permittee must comply with the monitoring requirements specified in Special Condition S2.B.

2. Anticipated bypasses for non-essential maintenance

Ecology may approve an anticipated bypass under the conditions listed below. This permit prohibits any anticipated bypass that is not approved through the following process.

- a. If a bypass is for non-essential maintenance, the Permittee must notify Ecology, if possible, at least ten (10) days before the planned date of bypass. The notice must contain:
  - A description of the bypass and the reason the bypass is necessary.
  - An analysis of all known alternatives which would eliminate, reduce, or mitigate the potential impacts from the proposed bypass.
  - A cost-effectiveness analysis of alternatives.
  - The minimum and maximum duration of bypass under each alternative.
  - A recommendation as to the preferred alternative for conducting the bypass.
  - The projected date of bypass initiation.
  - A statement of compliance with SEPA.
  - 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.
  - Details of the steps taken or planned to reduce, eliminate, and prevent recurrence 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 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 determine if the Permittee has met the conditions of Special Condition S5.F.2 a and b and consider the following prior to issuing a determination letter, an administrative order, or a permit modification as appropriate for an anticipated bypass:
  - If the Permittee planned and scheduled the bypass to minimize adverse effects on the public and the environment.
  - If the 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.
  - If feasible alternatives to the bypass exist, such as:
    - The use of auxiliary treatment facilities.
    - Retention of untreated wastes.
    - Stopping production.
    - 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 which occurred during normal periods of equipment downtime or preventative maintenance.

- Transport of untreated wastes to another treatment facility.

## **S5.G. Operations and maintenance (O&M) manual**

### **a. O&M manual submittal and requirements**

The Permittee must:

1. Update the operations and maintenance (O&M) manual that meets the requirements of 173-240-080 WAC and submit it to Ecology for approval by December 15, 2023. The update must incorporate changes to the treatment processes and systems installed during the WRF Improvements Phase 1 and Phase 2 projects.
2. Submit to Ecology for review and approval substantial changes or updates to the O&M manual whenever it incorporates them into the manual.
3. Keep the approved O&M manual at the permitted facility.
4. Follow the instructions and procedures of this manual.

### **b. O&M manual components**

In addition to the requirements of WAC 173-240-080(1) through (5), the O&M manual must be consistent with the guidance in Table G1-3 in the *Criteria for Sewage Works Design* (Orange Book), 2008. The O&M manual must include:

1. Emergency procedures for cleanup in the event of wastewater system upset or failure.
2. A review of system components which if failed could pollute surface water or could impact human health. Provide a procedure for a routine schedule of checking the function of these components.
3. Wastewater system maintenance procedures that contribute to the generation of process wastewater.
4. Reporting protocols for submitting reports to Ecology to comply with the reporting requirements in the discharge permit.
5. Any directions to maintenance staff when cleaning or maintaining other equipment or performing other tasks which are necessary to protect the operation of the wastewater system (for example, defining maximum allowable discharge rate for draining a tank, blocking all floor drains before beginning the overhaul of a stationary engine).
6. The treatment plant process control monitoring schedule.
7. Minimum staffing adequate to operate and maintain the treatment processes and carry out compliance monitoring required by the permit.
8. Specify other items on case-by-case basis such as O&M for collection systems pump stations, SCADA System, etc.

## **S6. Pretreatment**

### **S6.A. General requirements**

The Permittee must work with Ecology to ensure that all commercial and industrial users of the publicly owned treatment works (POTW) comply with the pretreatment regulations in 40 CFR Part 403 and any additional regulations that the Environmental Protection Agency (U.S. EPA)

may promulgate under Section 307(b) (pretreatment) and 308 (reporting) of the Federal Clean Water Act.

**S6.B. Duty to enforce discharge prohibitions**

1. Under federal regulations (40 CFR 403.5(a) and (b)), the Permittee must not authorize or knowingly allow the discharge of any pollutants into its POTW which may be reasonably expected to cause pass through or interference, or which otherwise violate general or specific discharge prohibitions contained in 40 CFR Part 403.5 or WAC 173-216-060.
2. The Permittee must not authorize or knowingly allow the introduction of any of the following into their treatment works:
  - a. Pollutants which create a fire or explosion hazard in the POTW (including, but not limited to waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21).
  - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, or greater than 11.0 standard units, unless the works are specifically designed to accommodate such discharges.
  - c. Solid or viscous pollutants in amounts that could cause obstruction to the flow in sewers or otherwise interfere with the operation of the POTW.
  - d. Any pollutant, including oxygen-demanding pollutants, (BOD<sub>5</sub>, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW.
  - e. Petroleum oil, non-biodegradable cutting oil, or products of mineral origin in amounts that will cause interference or pass through.
  - f. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity which may cause acute worker health and safety problems.
  - g. Heat in amounts that will inhibit biological activity in the POTW resulting in interference but in no case heat in such quantities such that the temperature at the POTW headworks exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless Ecology, upon request of the Permittee, approves, in writing, alternate temperature limits.
  - h. Any trucked or hauled pollutants, except at discharge points designated by the Permittee.
  - i. Wastewaters prohibited to be discharged to the POTW by the Dangerous Waste Regulations (chapter 173-303 WAC), unless authorized under the Domestic Sewage Exclusion (WAC 173-303-071).
3. The Permittee must also not allow the following discharges to the POTW unless approved in writing by Ecology:
  - a. Noncontact cooling water in significant volumes.
  - b. Stormwater and other direct inflow sources.
  - c. Wastewaters significantly affecting system hydraulic loading, which do not require treatment, or would not be afforded a significant degree of treatment by the system.
4. The Permittee must notify Ecology if any industrial user violates the prohibitions listed in this section (S6.B), and initiate enforcement action to promptly curtail any such discharge.

#### **S6.C. Wastewater discharge permit required**

The Permittee must:

1. Establish a process for authorizing non-domestic wastewater discharges that ensures all SIUs in all tributary areas meet the applicable state waste discharge permit (SWDP) requirements in accordance with chapter 90.48 RCW and chapter 173-216 WAC.
2. Immediately notify Ecology of any proposed discharge of wastewater from a source, which may be a significant industrial user (SIU) [see fact sheet definitions or refer to 40 CFR 403.3(v)(i)(ii)].
3. Require all SIUs to obtain a SWDP from Ecology prior to accepting their non-domestic wastewater, or require proof that Ecology has determined they do not require a permit.
4. Require the documentation as described in S6.C.3 at the earliest practicable date as a condition of continuing to accept non-domestic wastewater discharges from a previously undiscovered, currently discharging and unpermitted SIU.
5. Require sources of non-domestic wastewater, which do not qualify as SIUs but merit a degree of oversight, to apply for a SWDP and provide it a copy of the application and any Ecology responses.
6. Keep all records documenting that its users have met the requirements of S6.C.

#### **S6.D. Identification and reporting of existing, new, and proposed industrial users**

1. The Permittee must take continuous, routine measures to identify all existing, new, and proposed SIUs and potential significant industrial users (PSIUs) discharging or proposing to discharge to the Permittee's sewer system (see *Appendix C* of the fact sheet for definitions).
2. Within 30 days of becoming aware of an unpermitted existing, new, or proposed industrial user who may be a significant industrial user (SIU), the Permittee must notify such user by registered mail that, if classified as an SIU, they must apply to Ecology and obtain a State Waste Discharge Permit. The Permittee must send a copy of this notification letter to Ecology within this same 30-day period.
3. The Permittee must also notify all Potential SIUs (PSIUs), as they are identified, that if their classification should change to an SIU, they must apply to Ecology for a State Waste Discharge Permit within 30 days of such change.

#### **S6.E. Industrial user survey**

The Permittee must complete an industrial user survey listing all SIUs and potential significant industrial users (PSIUs) discharging to the POTW. The Permittee must submit the survey to Ecology by December 31, 2022. At a minimum, the Permittee must develop the list of SIUs and PSIUs by means of a telephone book search, a water utility billing records search, and a physical reconnaissance of the service area. Information on PSIUs must include, at a minimum, the business name, telephone number, address, description of the industrial process(s), and the known wastewater volumes and characteristics.

## **S7. Solid wastes**

### **S7.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.

### **S7.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.

## **S8. Spill control plan update**

### **S8.A Spill control plan submittals and requirements**

The Permittee must:

1. Submit to Ecology an update to the existing spill control plan by May 31, 2023.
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.

### **S8.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. Mixing study**

### **S9.A. General requirements**

The Permittee must:

1. Complete an Effluent Mixing Zone Study. Submit a Plan of Study to Ecology for review by July 31, 2023, prior to initiation of the effluent mixing study.
2. Use the Guidance for Conducting Mixing Zone Analyses (Appendix C of Ecology's *Permit Writer's Manual*, 2015) and the protocols identified in S10.C.
3. Include the results of the effluent mixing study in the Effluent Mixing Report and submit it to Ecology for approval by July 31, 2024.
4. If the results of the mixing study, toxicity tests, and chemical analysis indicate that the concentration of any pollutant(s) exceeds or has a reasonable potential to exceed the state water quality standards, chapter 173-201A WAC, Ecology may issue an administrative order to require a reduction of pollutants or modify this permit to impose effluent limits to meet the water quality standards.

### **S9.B. Reporting requirements**

The mixing zone study must include:

1. A statement confirming that AKART has been applied to the discharge.
2. A description of the size of the mixing zone allowed under chapter 173-201A WAC.
3. An analysis showing how mixing zones have been minimized using the lowest dilution from hydraulic limitations, width limitations, distance limitations and those predicted by the model.
4. A clear description of the critical conditions used for dilution factors:
  - a. For ambient freshwater (unidirectional flow) use 7Q10 flows for acute, chronic and non-carcinogenic pollutants, and harmonic flow for carcinogens.
  - b. Generally, use depth of outfall at 7Q10 flows (rivers). For assessing human health in freshwater, depths of outfall should be established at the applicable flow (e.g. harmonic mean flow or 30Q5 flows).
  - c. For unidirectional flow use centerline dilution factor for acute and chronic conditions, while flux average for human health dilution factors.
5. Diffuser information:
  - a. Location, orientation, description and dimension of diffusers and ports.
  - b. Port elevation above bottom and the depth of the diffuser/port below water surface based on either 7Q10 flow for rivers.
  - c. Plan view maps showing the mixing zone size and dimensions in relation to the diffuser.
  - d. Schematic of waterbody cross-section, showing channel width, depth, and diffuser location in relation to shoreline and bottom.
  - e. Report on the integrity of the diffuser and the ports being modeled.
6. Discharge characteristics:



- a. Existing and projected maximum daily, maximum monthly average, and annual average flows.
  - b. Discharge density (temperature and salinity).
7. Ambient water characteristics:
- a. Critical stream flow statistics (7Q10, 30Q5, harmonic flow).
  - b. Velocity profile in the vicinity of the diffuser.
  - c. Manning's roughness coefficient, if used.
  - d. Available information regarding background concentrations of chemical substances in the receiving water for which there are criteria in chapter 173-201A WAC.
8. Model selection and results:
- a. Model selection and application discussion. Consider model applicability to single or multiport diffuser, opposing port configuration, submerged, surface or above-surface discharge, buoyant or non-buoyant discharge, and potential plume attachment to boundaries.
  - b. Description of mixing and plume dynamics (nearfield, farfield, tidal buildup/reflux).
  - c. Sensitivity analysis.
  - d. Calibration to empirical data (tracer studies), if applicable.
  - e. Provide model output and summary table of results.

### **S9.C. Protocols**

The Permittee must determine the dilution ratio using protocols outlined in the following references, approved modifications thereof, or by another method approved by Ecology:

1. Doneker, R.L. and G.H. Jirka, *CORMIX User Manual: A Hydrodynamic Mixing Zone Model and Decision Support System for Pollutant Discharges into Surface Waters*, EPA-823-K-07-001, Dec. 2007. <http://www.mixzon.com/downloads/>.

A complete list of general reference for CORMIX is at:

<http://www.cormix.info/references.php>

2. Frick, W.E., Roberts, P.J.W., Davis, L.R., Keyes, D.J., Baumgartner, George, K.P. 2003. *Dilution Models for Effluent Discharges, 4th Edition (Visual Plumes)*. Ecosystems Research Div., USEPA, Athens, GA, USA.
3. Ecology, Water Quality Program, *Permit Writer's Manual*. 2015. Washington State Department of Ecology. Publication No. 92-109, Revised January 2015. <https://apps.ecology.wa.gov/publications/documents/92109.pdf>.
4. Ecology, Guidance for conducting mixing zone analysis (Appendix C, Water Quality Program *Permit Writer's Manual*. 2015). <https://apps.ecology.wa.gov/publications/parts/92109part1.pdf>
5. Kilpatrick, F.A., and E.D. Cobb, *Measurement of Discharge Using Tracers, Chapter A16, Techniques of Water-Resources Investigations of the USGS*, Book 3, Application of Hydraulics, USGS, U.S. Department of the Interior, Reston, VA, 1985.

6. Wilson, J.F., E.D. Cobb, and F.A. Kilpatrick, *Fluorometric Procedures for Dye Tracing, Chapter A12. Techniques of Water-Resources Investigations of the USGS, Book 3, Application of Hydraulics*, USGS, U.S. Department of the Interior, Reston, VA, 1986.

## S10. Acute toxicity

### S10.A. Testing when there is no permit limit for acute toxicity

The Permittee must:

1. Conduct acute toxicity testing on final effluent twice: once in the last winter (January 2024) and once in the last summer (July 2024).
2. Submit the results to Ecology within 60 days of each sampling event, no later than March 30, 2024, and September 30, 2024. In addition, summarize and report results in the next permit renewal application.
3. Conduct acute toxicity testing on a series of at least five concentrations of effluent, including 100% effluent and a control.
4. Use each of the following species and protocols for each acute toxicity test:

**Table 9 – Acute Toxicity Tests**

| Acute Toxicity Tests                       | Species                                                                    | Method           |
|--------------------------------------------|----------------------------------------------------------------------------|------------------|
| Fathead minnow 96-hour static-renewal test | <i>Pimephales promelas</i>                                                 | EPA-821-R-02-012 |
| Daphnid 48-hour static test                | <i>Ceriodaphnia dubia</i> , <i>Daphnia pulex</i> , or <i>Daphnia magna</i> | EPA-821-R-02-012 |

### S10.B. Sampling and reporting requirements

1. The Permittee must submit all reports for toxicity testing in accordance with the most recent version of Ecology Publication No. WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria*. Reports must contain toxicity data, bench sheets, and reference toxicant results for test methods. In addition, the Permittee must submit toxicity test data in electronic format (CETIS export file preferred) for entry into Ecology's database.
2. The Permittee must collect 24-hour composite effluent samples for toxicity testing. The Permittee must cool the samples to 0 - 6 degrees Celsius during collection and send them to the lab immediately upon completion. The lab must begin the toxicity testing as soon as possible but no later than 36 hours after sampling was completed.
3. The laboratory must conduct water quality measurements on all samples and test solutions for toxicity testing, as specified in the most recent version of Ecology Publication No. WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria*.
4. All toxicity tests must meet quality assurance criteria and test conditions specified in the most recent versions of the EPA methods listed in Subsection C and the Ecology Publication No. WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria*. If Ecology determines any test results to be invalid or anomalous, the Permittee must repeat the testing with freshly collected effluent.

5. The laboratory must use control water and dilution water meeting the requirements of the EPA methods listed in Section A or pristine natural water of sufficient quality for good control performance.
6. The Permittee must conduct whole effluent toxicity tests on an unmodified sample of final effluent.
7. The Permittee may choose to conduct a full dilution series test during compliance testing in order to determine dose response. In this case, the series must have a minimum of five effluent concentrations and a control. The series of concentrations must include the acute critical effluent concentration (ACEC). The ACEC equals 41.7% effluent.
8. All whole effluent toxicity tests, effluent screening tests, and rapid screening tests that involve hypothesis testing must comply with the acute statistical power standard of 29% as defined in WAC 173-205-020. If the test does not meet the power standard, the Permittee must repeat the test on a fresh sample with an increased number of replicates to increase the power.

## S11. Chronic toxicity

### S11.A. Testing when there is no permit limit for chronic toxicity

The Permittee must:

1. Conduct acute toxicity testing on final effluent twice: once in the last winter (January 2024) and once in the last summer (July 2024).
2. Submit the results to Ecology within 60 days of each sampling event, no later than March 30, 2024, and September 30, 2024. In addition, summarize and report results in the next permit renewal application.
3. Conduct chronic toxicity testing on a series of at least five concentrations of effluent and a control. This series of dilutions must include the acute critical effluent concentration (ACEC). The ACEC equals 41.7% effluent. The series of dilutions should also contain the CCEC of 2.81% effluent.
4. Compare the ACEC to the control using hypothesis testing at the 0.05 level of significance as described in Appendix H, EPA/600/4-89/001.
5. Perform chronic toxicity tests with all of the following species and the most recent version of the following protocols:

**Table 10 – Freshwater Chronic Test**

| Freshwater Chronic Test              | Species                    | Method           |
|--------------------------------------|----------------------------|------------------|
| Fathead minnow survival and growth   | <i>Pimephales promelas</i> | EPA-821-R-02-013 |
| Water flea survival and reproduction | <i>Ceriodaphnia dubia</i>  | EPA-821-R-02-013 |

### S11.B. Sampling and reporting requirements

1. The Permittee must submit all reports for toxicity testing in accordance with the most recent version of Ecology Publication No. WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria*. Reports must contain toxicity data, bench sheets, and reference toxicant results for test methods. In addition, the Permittee must submit toxicity test data in electronic format (CETIS export file preferred) for entry into Ecology's database.

2. The Permittee must collect 24-hour composite effluent samples for toxicity testing. The Permittee must cool the samples to 0 - 6 degrees Celsius during collection and send them to the lab immediately upon completion. The lab must begin the toxicity testing as soon as possible but no later than 36 hours after sampling was completed.
3. The laboratory must conduct water quality measurements on all samples and test solutions for toxicity testing, as specified in the most recent version of Ecology Publication No. WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria*.
4. All toxicity tests must meet quality assurance criteria and test conditions specified in the most recent versions of the EPA methods listed in Section C and the Ecology Publication no. WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria*. If Ecology determines any test results to be invalid or anomalous, the Permittee must repeat the testing with freshly collected effluent.
5. The laboratory must use control water and dilution water meeting the requirements of the EPA methods listed in Subsection C or pristine natural water of sufficient quality for good control performance.
6. The Permittee must conduct whole effluent toxicity tests on an unmodified sample of final effluent.
7. The Permittee may choose to conduct a full dilution series test during compliance testing in order to determine dose response. In this case, the series must have a minimum of five effluent concentrations and a control. The series of concentrations must include the CCEC and the ACEC. The CCEC and the ACEC may either substitute for the effluent concentrations that are closest to them in the dilution series or be extra effluent concentrations. The CCEC equals 2.81% effluent. The ACEC equals 41.7% effluent.
8. All whole effluent toxicity tests that involve hypothesis testing must comply with the chronic statistical power standard of 39% as defined in WAC 173-205-020. If the test does not meet the power standard, the Permittee must repeat the test on a fresh sample with an increased number of replicates to increase the power.

## **S12. Application for permit renewal or modification for facility changes**

The Permittee must submit an application for renewal of this NPDES permit by December 31, 2025.

The Permittee must also submit a new application or addendum at least one hundred eighty (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.

## Reclaimed Water Conditions

### R1. Water quality limits

#### R1.A. Reclaimed water limits

All activities authorized by this permit for the production and distribution of reclaimed water must comply with the terms and conditions of this permit. The distribution of reclaimed water containing any of the following constituents more frequently than, or at a concentration in excess of, that identified and authorized by this permit violates the terms and conditions of this permit.

Beginning on the effective date of this permit, the Permittee may produce and distribute Class A reclaimed water for the beneficial uses, and to the locations, listed in Reclaimed Water Condition R4 subject to the following water quality limits. In addition to the product water limits below, the source water for the reclaimed water treatment system must at all times comply with the limits on CBOD<sub>5</sub>, TSS and pH in Special Condition S1 of this permit.

#### Reclaimed Water Limits (Outfall #002)

Latitude 47.542219 Longitude -121.830353

**Table 11 – Biological Oxidation Performance Standard <sup>a</sup>**

| Parameter             | Minimum                 | Maximum |
|-----------------------|-------------------------|---------|
| Dissolved Oxygen (DO) | ≥ 0.2 mg/L <sup>b</sup> |         |

#### Product Water

**Table 12 – Coagulated/ Filtered Water – Prior to Disinfection**

| Parameter | Average Monthly <sup>c</sup>          | Instantaneous Maximum |
|-----------|---------------------------------------|-----------------------|
| Turbidity | 2 Nephelometric Turbidity Units (NTU) | 5 NTU <sup>d</sup>    |

#### Disinfected Reclaimed Water

**Table 13 – Disinfected Reclaimed Water Prior to Distribution <sup>e</sup>**

| Parameter      | 7-Day Median <sup>f</sup>                                                                                                                                                                                                                                                                                                                                                                                                | Sample Maximum <sup>g</sup> |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Total Coliform | 2.2 MPN /100 mL                                                                                                                                                                                                                                                                                                                                                                                                          | 23 MPN /100 mL              |
| <sup>a</sup>   | Source water for the reclaimed water facility must meet or exceed minimum technology-based secondary treatment requirements in WAC 173-221-040 to satisfy the biological oxidation treatment standard. The Permittee may measure compliance with this standard either at the end of the reclaimed water treatment system or in the secondary effluent at the point of diversion to the reclaimed water treatment system. |                             |
| <sup>b</sup>   | The standard for dissolved oxygen is “must be measurably present”. The limit for dissolved oxygen is set at the minimum quantitation level listed in Appendix A.                                                                                                                                                                                                                                                         |                             |
| <sup>c</sup>   | Average monthly effluent limit means the highest allowable average of daily discharges over a calendar month. To calculate the discharge value to compare to the limit, you add the value of each daily discharge measured during a calendar month and divide this sum by the total number of daily discharges measured.                                                                                                 |                             |
| <sup>d</sup>   | The maximum turbidity limit is defined as the value not to be exceeded by a continuous measurement. The Permittee must report the maximum instantaneous turbidity that is recorded for longer than 5 consecutive minutes. Durations of less than or equal to 5 minutes over the sample maximum are not permit violations.                                                                                                |                             |
| <sup>e</sup>   | End of UV disinfection channel prior to diversion to the reclaimed water pump station clear well.                                                                                                                                                                                                                                                                                                                        |                             |
| <sup>f</sup>   | Determine the 7-day median value using all of the bacteriological results of the last 7 days of analyses (the reporting day and the previous 6 days).                                                                                                                                                                                                                                                                    |                             |
| <sup>g</sup>   | The number of total coliform organisms must not exceed the sample maximum limit value in any single sample. If the Permittee collects multiple samples in a single day, it must report the highest sample value of all samples taken as the sample maximum.                                                                                                                                                              |                             |

## R2. Monitoring requirements

### R2.A. Class A reclaimed water monitoring

The Permittee must monitor in accordance with the following schedule and the requirements specified in Appendix A. These monitoring requirements supplement monitoring required by special condition S2 of this permit.

The Permittee must monitor priority pollutants in final reclaimed water to collect data necessary for the next application for permit renewal. Monitoring must be conducted in accordance with the “Permit Renewal Application Requirements” in Special Condition S2 (Table 7) of this permit and during at least one period when the facility is producing reclaimed water.

#### Table 14 – Filtration Process Monitoring

The permittee must monitor the amount of coagulants added to the reclaimed water treatment prior to filtration.

| Parameter              | Units  | Minimum Sampling Frequency | Sample Type   |
|------------------------|--------|----------------------------|---------------|
| Coagulant <sup>1</sup> | Pounds | Daily                      | Metered Usage |

#### Table 15 – Reclaimed Water Prior to Disinfection

The Permittee must monitor the filtered reclaimed water prior to disinfection. The reclaimed water must comply with the dissolved oxygen and turbidity limits at this monitoring point.

| Parameter              | Units | Minimum Sampling Frequency | Sample Type      |
|------------------------|-------|----------------------------|------------------|
| Dissolved Oxygen       | mg/L  | Continuous                 | Metered/recorded |
| Turbidity <sup>2</sup> | NTU   | Continuous                 | Metered/recorded |

#### Table 16 – Final Reclaimed Water

The Permittee must monitor the final reclaimed water quality after disinfection and at a location prior to distribution to Eagle Lake.

| Parameter                     | Units      | Minimum Sampling Frequency | Sample Type             |
|-------------------------------|------------|----------------------------|-------------------------|
| Flow                          | mgd (gpd)  | Continuous <sup>3</sup>    | Metered                 |
| Total coliform                | MPN /100mL | Daily                      | Grab                    |
| Total coliform – 7-day Median | MPN /100mL | Daily                      | Calculated <sup>4</sup> |

#### Table 17 – Footnotes for Monitoring Tables

| Footnote     | Information                                                                                                                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <sup>1</sup> | Coagulant refers to any polymer, coagulant or any other chemical added to the reclaimed water to enhance filterability. Permittee must record and report the total amount of all chemicals added each day reclaimed water is produced. |
| <sup>2</sup> | Effluent turbidity analysis must be performed by a continuous recording turbidimeter. The Permittee must report the maximum value that exceeds 5 minutes.                                                                              |
| <sup>3</sup> | Continuous means uninterrupted except for brief lengths of time for calibration, for power failure, or for unanticipated equipment repair or maintenance                                                                               |
| <sup>4</sup> | Calculate and report the median value of Total Coliform results on a daily basis using the results of daily samples taken on the reporting day and the six previous days when reclaimed water was produced.                            |

The Permittee must meet the minimum sampling frequency in the above table whenever it produces and distributes reclaimed water. If the Permittee produces and distributes reclaimed water intermittently over the course of a month, it must ensure it complies with the minimum monitoring frequency during the periods it produces and distributes reclaimed water. Permittee may use CBOD<sub>5</sub> and TSS monitoring conducted on days when it does not distribute reclaimed water to outfall #002 to achieve the minimum frequency in this schedule only if the water was coagulated and filtered prior to discharge through outfall #001.

All reclaimed water monitoring practices and procedures must conform to the requirements of Special Conditions S2.

#### **R2.B. Sampling and analytical procedures**

The Permittee must use sampling and analytical procedures consistent with Special Condition S2.B of this permit, with the following change. The Permittee may use sampling and analytical methods listed in either 40 CFR Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants) or 40 CFR Part 141 (National Primary Drinking Water Regulations) for reclaimed water monitoring.

#### **R2.C. Flow measurement and continuous monitoring devices**

The Permittee must use flow measurement and continuous monitoring devices consistent with Special Condition S2.C of this permit.

#### **R2.D. Laboratory accreditation**

The Permittee must comply with the laboratory accreditation requirement in Special Condition S2.D of this permit.

#### **R2.E. Request for reduction in monitoring**

The Permittee may request a reduction of the sampling frequency after twelve (12) months of monitoring. Ecology will review each request and at its discretion grant the request when it reissues the permit or by a permit modification.

The Permittee must:

1. Provide a written request.
2. Clearly state the parameters for which it is requesting reduced monitoring.
3. Clearly state the justification for the reduction.

### **R3. Reporting and recording requirements**

The Permittee must monitor and report in accordance with Special Condition S3 of this permit and the following conditions.

#### **R3.A. Discharge monitoring reports**

The first monitoring period begins on the effective date of the permit (unless otherwise specified). The Permittee must submit discharge monitoring reports to report the tabulated data in Reclaimed Condition R2 according to the instructions in Special Condition S3.A of this permit and the instructions below. If the Permittee monitors any pollutant more frequently than required by Reclaimed Water Condition R2, then the Permittee must include the results of such monitoring in the

calculation and reporting of the data submitted in the DMR, unless otherwise specified by Reclaimed Water Condition R2.

The Permittee must:

1. Report the highest value of any total coliform sample for each day if multiple samples were taken in one day.
2. Calculate the 7-day median values for total coliform using:
  - a. The reported numeric value for all daily total coliform samples measured above the detection value except when it took multiple samples in one day. If the Permittee takes multiple samples in one day it must use the highest value for the day in the 7-day median calculation.

### **R3.B. Annual summary report**

The Permittee must submit an annual report by March 15th of each year using the Annual Report Questionnaire Form provided by Ecology in the Water Quality Permitting Portal – Permit Submittals application. The Permittee will generally provide summaries of reclaimed water production topics for the previous calendar year in the questionnaire. Appendix B includes a sample of the Annual Report Questionnaire. Summary topics include, but may not be limited to:

- Number of days of reclaimed water production and distribution.
- Total volume of reclaimed water produced and distributed.
- Total volume of reclaimed water distributed to each use category authorized in Reclaimed Condition R4.A.
- Total volume of off-spec reclaimed water diverted for disposal or retreatment, if any.
- Total volume of reclaimed water diverted from authorized use locations due to distribution system maintenance or repair.
- Number of reclaimed water quality limit violations reported on monthly DMRs, if any.
- Number of backflow incidents discovered and reported to water purveyors, if any.

In addition to providing the data listed above, the questionnaire will require the Permittee to upload supplemental summary documents that provide the following information:

- The annual volume of reclaimed water distributed to each use location.
- A list of any new users or distributors that signed agreements during the year.
- Description of the circumstances that led to the disposal of off-spec reclaimed water along with a description of corrective actions taken.
- A summary of any actions taken to enforce requirements in use or distribution agreements, including nature of the violation and the remedial action taken.
- A Cross-connection Control Program Summary.

### **R3.C. Records retention**

The Permittee must retain all records pertaining to the annual cross-connection control report that is submitted to the Department of Health, Office of Drinking Water, by the water purveyor(s) that provides potable water to any reclaimed water use area for a minimum of three (3) years. This report must identify all cross-connection control assemblies tested and any cross-



connection incident that occurred relating to the reclaimed water system. This report only applies to those control assemblies under the control of the Permittee.

The Permittee must retain all records pertaining to the Reclaimed Water Use Plan for a minimum of three (3) years and must retain the plan on-site.

### **R3.G. Reporting permit violations**

In the event of an action that violates the reclaimed water terms and conditions of this permit, the Permittee must immediately take action to stop, contain, and remedy the unauthorized generation, distribution, or use of reclaimed water. The Permittee must report the noncompliance as directed below.

#### **a. Immediate reporting**

1. The Permittee must immediately report to Ecology (at the number listed below) all noncompliance that results in the production and distribution of reclaimed water that threatens public health or the environment, including:
  - Any failure of the reclaimed water treatment system resulting in the distribution of improperly treated water.
  - Plant bypasses resulting in distribution of improperly treated water.
  - Overflows or leaks of transmission or irrigation pipelines that discharge to a waterbody used as a source of drinking or irrigation water.

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Additionally, if an overflow or leak results in a discharge of reclaimed water into a municipal separate storm sewer system (MS4), the Permittee must notify the appropriate MS4 owner or operator.

2. The Permittee must report to Ecology and the appropriate potable water purveyor immediately, but no later than the end of the next business day, when it discovers a backflow incident that may have contaminated the reclaimed water facility, the distribution system, or the potable water system.

#### **b. Written violation reports**

The Permittee must also submit a written report within thirty days of the time that the Permittee becomes aware of any reportable event under subpart a above. The report must contain:

1. A description of the noncompliance and its cause.
2. The period of noncompliance, including exact dates and times.
3. The estimated time the Permittee expects the noncompliance to continue if not yet corrected.
4. A description of the corrective actions taken.
5. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
6. Maps, drawings, aerial photographs, or pictures as necessary to show the location and cause(s) of the non-compliance.

**c. All other permit violation reporting**

The Permittee must report all permit violations that do not require reporting under subparts a or b according to the requirements in Special Condition S3.F of this permit.

**R4. Reclaimed water distribution and use**

**R4.A. Authorized uses and locations**

1. The Permittee may produce and distribute Class A reclaimed water for turf and landscape irrigation.
2. The Permittee may add beneficial uses listed in the “Land Application or Irrigation” section of Table 3 in WAC 173-219-390 without modifying this permit as long as the new use does not include additional use-based requirements that are more stringent than the requirements listed in Reclaimed Condition R4.B.c.
3. All distribution and use of reclaimed water must comply with the terms and conditions of this permit and with signed distribution and use agreements. The distribution or release of inadequately treated water or the distribution and use of water to locations not identified in this permit or use agreements is prohibited.
4. The Permittee may distribute reclaimed water for beneficial uses to the following locations. The Permittee may add new reclaimed water users without modification of this permit by submitting a signed use agreement with the new user for Ecology review and approval prior to providing reclaimed water to the new user.

**Table 18 –Reclaimed Water Use Locations**

| <b>Water User</b>                                           | <b>Location (address)</b>                       |
|-------------------------------------------------------------|-------------------------------------------------|
| Snoqualmie Ridge Golf Course                                | 36005 SE Ridge Street                           |
| Snoqualmie Ridge Business Park                              | Vicinity of SE Douglas St. and Snoqualmie Pkwy. |
| Venture Commerce Center                                     | 35300-35400 SE Center St.                       |
| Snoqualmie Public Works – Snoqualmie Pkwy median and swales | Snoqualmie Parkway                              |
| Snoqualmie Ridge ROA                                        | 35131 SE Douglas St                             |

**R4.B. Use and distribution constraints**

**a. Agreements required**

The Permittee must maintain and enforce use agreements for each user that receives reclaimed water generated by the permitted facility. Agreements may take one of the following forms:

- Individual agreements with each user that receives reclaimed water.
- Standardized general agreements or templates that the Permittee will use for all users.
- Local ordinances that regulate the use of reclaimed water generated at the permitted facility.

The Permittee must submit each individual agreement, general agreement template, or ordinance to Ecology for review and approval prior to providing reclaimed water.

Any use agreement in effect prior to February 23, 2018, that does not comply with the requirements of WAC 173-219-290(2) and with Reclaimed Condition R4.B.c of this permit may remain in effect for up to one year after the effective date of this permit. The Permittee must modify, as necessary, and resubmit any non-conforming agreement to Ecology for review and approval by June 30, 2022.

**b. Distribution requirements**

The Permittee must comply with the following requirements for the distribution of reclaimed water produced at the permitted facility.

The Permittee must:

1. Notify all owners of potable water supplies with sources within 1,000 feet of reclaimed water storage facilities. Notification requirement applies to all new reclaimed water storage facilities and existing storage facilities for which the Permittee has not previously provided notification.
2. Label or color code all new reclaimed water piping, valves, outlets, storage facilities, and other appurtenances to identify the components as part of the reclaimed water distribution system. Color coding must be Pantone 512, 522 or other shade of purple color approved in the reclaimed water engineering report.
3. Maintain adequate separation between pipes conveying reclaimed water and any nearby sanitary sewer lines, storm sewer lines, potable water lines, and potable water wells.
4. Maintain a minimum 200-foot horizontal separation between reclaimed water distribution and storage infrastructure and all potable water intakes, including well heads, springs, surface water, or designated groundwater under the influence of surface water.
5. Manage cross-connection controls between reclaimed water and potable water as well as between reclaimed water and systems conveying lower quality waters, such as wastewaters and stormwater. Cross-connection controls must comply with the requirements in Reclaimed Water Condition R4.C of this permit and with WAC 173-219-310.
6. Take appropriate steps to contain and divert to the sanitary sewer system or to an approved use area any reclaimed water released from the distribution system during distribution system maintenance. Maintenance releases may result line flushing or pipeline repair. Any release of reclaimed water to surface water or to any area not identified in this permit or a signed use agreement is prohibited.

**c. Use agreement requirements**

1. Before entering into any use agreement, the Permittee must first evaluate the proposed use site to assure the proposed site is appropriate for the prospective reclaimed water use. The Permittee must also verify that the proposed use is not prohibited by local codes or ordinances and that the use is protective of public health and the environment. A completed site evaluation must accompany each use agreement submitted to Ecology for review and approval.

A site evaluation is not required for use agreements in place prior to February 23, 2018. A new or updated evaluation will be required for existing use areas if the agreements are

modified to increase the amount of reclaimed water supplied to the site or to change the types of beneficial uses at the sites. The Permittee must also reevaluate use sites when they become aware of changes in local codes or ordinances that may affect the use of reclaimed water at the site or if they become aware of any other circumstances that may impact the ability to appropriately use reclaimed water at a site.

2. The Permittee must notify any water purveyor supplying potable water to the proposed use site of their intent to supply reclaimed water to the site. The notice must:

- Describe the treatment requirements for the reclaimed water,
- Identify the proposed use(s) at the site, and
- Identify any proposed measures to protect the potable water supply.

A copy of the notification must accompany each agreement submitted to Ecology for review and approval.

3. Each use agreements must include the following:

- a. Identification of the person or organization entering into the agreement to use the reclaimed water. For agreements with an organization, include the name of the individual responsible for overseeing the use of the reclaimed water.
- b. Identification of the area where reclaimed water will be used. This identification must list whether the use area is included in a wellhead protection area or critical aquifer recharge area.
- c. Description of the authorized use(s) of reclaimed water at the site covered by the agreement.
- d. Requirements for cross-connection control consistent with Reclaimed Condition R4.C below.
- e. Specification of monitoring points, monitored parameters, and sample times as necessary to implement the terms and conditions in this permit.
- f. Requirements for advisory notification at the use site. Advisory notices may include signs or distributed notices that include the following: "Reclaimed Water – Do Not Drink". The requirement may also use alternate language that is consistent with the Washington State Uniform Plumbing Code (WAC 51-56) or approved by the Department of Health.
- g. Require the design for all pipes carrying reclaimed water at the use site to comply with labeling and separation requirements in Reclaimed Water Condition R4.B.b above and WAC 173-219-360. Ecology may waive this requirement on a case-by-case basis.
- h. Restrict operation of reclaimed water valves and outlets at the use site to authorized personnel and restrict access to hose bibs on reclaimed water lines.
- i. Establish Best Management Practices (BMPs) designed to prevent incidental site runoff.

**d. Enforcement of agreements**

Each use agreement must include enforcement provisions specifying grounds for suspending delivery of reclaimed water or termination of the agreements. The Permittee

must, at a minimum, immediately suspend delivery of reclaimed water to a user under the following conditions:

- Discovery of failed or inadequate cross-connection control devices at the use area covered by an agreement.
- Discovery of use of reclaimed waters to areas not identified in use agreements or for uses not authorized by an agreement or this permit.
- Discovery of the use of reclaimed water at rates greater than the rates authorized by an agreement or in a manner inconsistent with the terms and conditions of this permit and the agreement.
- Failure of a user to provide adequate labeling or use area notification.
- Failure of a user to implement appropriate measures to protect human health and the environment.

#### **R4.C. Cross-connection control**

The Permittee must comply with the cross-connection control requirements in this permit and in WAC 173-219-310. It must take the actions specified below to eliminate or prevent cross-connections between water supplies at the reclaimed water production facility and throughout the reclaimed water distribution system.

##### **a. Cross-connection control program**

The permittee must develop and implement a cross-connection control program to ensure protection of reclaimed water from lower quality water. The program must ensure protection of reclaimed water at all stages, starting at the production facility and ending at the property line of each use location. The program must also document how the Permittee will coordinate with potable water purveyors to evaluate and prevent potential cross connection between reclaimed water and potable water supplies. The Permittee must ensure that all determinations of the appropriate method of backflow prevention needed to eliminate or control cross-connections is made by a cross-connection control specialist certified under RCW 70.119.

The Permittee must complete program development and begin implementation by June 30, 2025. The Permittee must also provide a status update on the development of the program as an element of the Annual Summary Report required in Reclaimed Water Condition R3.B.

##### **b. Water purveyor coordination**

The permittee must coordinate with all potable water purveyors in the service area of the reclaimed water system to eliminate potential cross-connections between the reclaimed water treatment and distribution systems and the potable water systems. The written cross-connection control program must document and describe the procedures used to coordinate with water purveyors and delineate responsibilities.

The Permittee must notify any water purveyor supplying potable water to the proposed use site of their intent to supply reclaimed water to the site. The notice must:

- describe the treatment requirements for the reclaimed water,

- identify the proposed use(s) at the site, and
- identify any proposed measures to protect the potable water supply.

The Permittee may not provide water to a use location before the potable water purveyor has certified that an appropriate backflow prevention assembly has been correctly installed on the potable supply line to the use location property.

**c. Program requirements**

The Permittee must use good engineering practices in the development and implementation of the of the cross-connection control program. The program must include the following minimum elements:

1. Adoption of a local ordinance, resolution, code, bylaw, or other written legal instrument that establishes the Permittee's authority to implement the program; describes the program's operating policies and technical provisions; and establishes corrective actions needed to enforce the program.
2. Development and implementation procedures and schedules to eliminate or control cross-connections through the proper installation and periodic inspection of approved backflow prevention assemblies at new and existing use locations.
3. Adequate staffing to develop and implement the program, including at least one cross-connection control specialist certified under RCW 70.119.
4. Procedures for responding to backflow incidents.
5. Development and maintenance of a records system that documents locations where potential cross-connections exist; identifies properties where the Permittee provides reclaimed water; identifies the potable water purveyor supplying water to properties receiving reclaimed water, if potable supply is present; a detailed inventory of cross-connection control devices used at each location; and a system for providing annual reports of the cross-connection control program and backflow incident reports.

**d. Backflow prevention assemblies**

Whenever the use of backflow prevention assemblies is necessary to prevent cross-connection between lower-quality water and higher-quality water, the Permittee must ensure that each assembly used is recognized as an approved device on the current *University of Southern California Foundation for Cross-Connection Control and Hydraulic Research* approved backflow assemblies list. The Permittee must review plans for each installation to verify that the device will not be submerged during flooding; that the installation will comply with applicable safety regulations; and that any bypass piping around a backflow prevention assembly includes at least the same level of protection as the assembly being bypassed.

The Permittee must inspect or test backflow protection assemblies, including air gaps, at the following intervals:

- At the time of installation to verify proper construction.
- At least annually after installation. More frequent inspection may be required for assemblies installed at premises or in systems that may pose a high risk of cross-connection hazard or that have a repeated history of failure.

- After a backflow incident.
- After a repair, reinstallation, or relocation of a system.

#### **R4.D. Water rights protection**

Per RCW 90.46.130, the use of reclaimed water produced at the permitted facility must not impair any existing water right downstream of the freshwater discharge point(s) of the facility unless the Permittee and affected right holder agree upon compensation or mitigation. Existing water rights may include any permits, claims, certificates, or instream flows established pursuant to RCW 90.22 and RCW 90.54, along with federally reserved water rights. To prevent new stream impacts or impairments of downstream water rights, production and distribution of reclaimed water from the permitted facility must not exceed a maximum monthly design flow rate of 1.56 MGD.

The Reclaimed Water Rule, WAC 173-219-090(1), requires that any “person applying to ecology or health for a reclaimed water permit, permit renewal, or permit modification under this chapter must demonstrate compliance with RCW 90.46.130.” To meet this requirement, the Permittee must document in the next application for permit renewal how the use of reclaimed water from the permitted facility continues to comply with the water rights protection provisions in WAC 173-219-090 and RCW 90.46.130.

### **R5. Facility loading**

The Permittee must comply with the Facility Loading requirements in Special Condition S4 of this permit for the influent wastewater to the treatment facility. The following additional conditions apply to the water reclamation process at the permitted facility.

#### **R5.A. Design criteria**

The reclaimed water production flow rate for the permitted facility must not exceed the following design criteria:

Maximum Month Design Flow (MMDF)      1.56 MGD

#### **R5.B. Plans for maintaining adequate capacity**

##### **a. Conditions triggering plan submittal**

The Permittee must submit a plan and a schedule for continuing to maintain capacity to Ecology when:

1. The actual flow or waste load reaches 85 percent of the design criteria in R5.A for three consecutive months.
2. The projected plant flow or loading would reach design capacity within five years.

##### **b. Plan and schedule content**

The plan and schedule must identify the actions necessary to maintain adequate capacity for the expected population growth and to meet the limits and requirements of the permit. The Permittee must consider the following topics and actions in its plan.

1. Analysis of the present design and proposed process modifications.

2. Reduction or elimination of excessive infiltration and inflow of uncontaminated ground and surface water into the sewer system.
3. Limits on future sewer extensions or connections or additional waste loads.
4. Modification or expansion of facilities.
5. Reduction of industrial or commercial flows or waste loads.

Engineering documents associated with the plan must meet the requirements of WAC 173-219-210 (engineering reports for reclaimed water facilities) and WAC 173-240-060, (engineering reports for wastewater treatment facilities) and be approved by Ecology prior to any construction.

## **R6. Operation and maintenance**

The Permittee must at all times properly operate and maintain all facilities or systems of treatment and control (and related appurtenances) installed to produce and distribute reclaimed water in compliance with the terms and conditions of this permit. Proper operation and maintenance includes keeping a daily operation logbook (paper or electronic), adequate laboratory controls, and appropriate quality assurance procedures.

The Permittee must keep maintenance records on all major electrical and mechanical components of the treatment plant and reclaimed water distribution system. Such records must clearly specify the frequency and type of maintenance recommended by the manufacturer and must show the frequency and type of maintenance performed. It must make maintenance records available for inspection at all times.

This condition supplements operations and maintenance requirements in Special Condition S5 of this permit.

### **R6.A. Certified operator**

An operator certified for at least a Class III plant by the State of Washington must be in responsible charge of the day-to-day operation of the reclaimed water production. An operator certified for at least a Class II plant must be in charge during all regularly scheduled shifts. The Permittee must notify Ecology when the operator in charge at the facility changes. It must provide the new operator's name and certification level and provide the name of the operator leaving the facility.

### **R6.B. Treatment reliability**

The Permittee must ensure compliance with the reliability requirements of WAC 173-219-350. It must use adequate safeguards to prevent the distribution of water that is not treated in accordance with the requirements of this permit. Adequate safeguards include, but are not limited to alarms to alert operators of problems, use of redundant power sources, retention of inadequately treated wastes, and automatic diversions of water to storage or other authorized disposal when problems occur.

#### **a. Reclaimed water bypass prohibited**

The Permittee must not bypass inadequately treated wastewater from the permitted facility to the distribution system or any point of use. It must divert any water not treated in accordance with the reclaimed water requirements of this permit to storage for retreatment or to disposal as authorized by Special Condition S1 of this permit.



**b. Alarms and automatic diversion**

The Permittee must use alarm systems at the permitted facility to alert operators to failures in critical treatment unit processes. All alarms must sound at an attended location or through an automated notification system that will alert a designated, on-call operator of the need to take corrective action. The alarm system must include automated response programming that, upon failure of a critical system, starts back-up components, diverts water to storage, or diverts water to authorized disposal. Critical systems include, but are not limited to, primary plant power supply, biological treatment, coagulation, filtration, and disinfection treatment processes. Any programming to automatically divert water to storage or disposal must include a requirement for an operator to manually reset after verifying correction of the initial failure.

**c. Power supply**

The Permittee must at all times maintain power sufficient to operate all vital treatment components, alarms, and critical lighting and ventilation during peak flow conditions. Vital treatment components include biological treatment units, coagulation, filtration and disinfection. Upon loss of primary power, the Permittee must ensure one of the following actions occur.

1. An alarm alerts the plant operator to the power loss and power supply switches to a back-up power source.
2. An alarm alerts the plant operator to the loss of power and automated flow control equipment divert wastewater to storage for retreatment after power returns.
3. An alarm alerts the plant operator to the loss of power and automated flow control equipment divert wastewater to an authorized disposal location.

The power supply to all alarms and automated flow diversion equipment must be independent of the primary power supply for the reclaimed water facility or use an independent, uninterruptible back-up power source.

**d. Restoring service**

The Permittee may not restore reclaimed water distribution until appropriate back-up systems have been brought online or until the plant failure has been corrected. It must develop and implement checklists and standard operating procedures for operators to use in determining that the plant has been restored to normal operation. The checklists and standard operating procedures must be included in the operations and maintenance manual approved by Ecology in accordance with Reclaimed Water Condition R6.C.

**e. Short-term reduction**

The Permittee must schedule any facility maintenance, which might require interruption of reclaimed water treatment system and degrade reclaimed water quality, during non-critical production periods and carry this maintenance out according to the approved O&M manual or as otherwise approved by Ecology.

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limits on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee must:

1. Give written notification to Ecology, if possible, thirty (30) days prior to such activities.

2. Detail the reasons for, length of time of, and the potential effects of the reduced level of treatment.
3. Store inadequately treated flow and retreat after full treatment capability has been restored, or divert all inadequately treated flow to permitted disposal.
4. If available storage capacity is insufficient to store all flow during the short-term reduction period and permitted disposal is not available, the Permittee must work with Ecology to develop options for managing the excess off-spec water.
5. Follow the requirements for “Restoring service” listed above before resuming reclaimed water production.

This notification does not relieve the Permittee of its obligations under this permit.

#### **R6.C. Operations and maintenance manual**

The Permittee must at all times operate and maintain all facilities or systems of control installed to achieve compliance with the reclaimed water conditions in this permit according to the instructions in an operations and maintenance (O&M) manual approved by Ecology.

##### **a. O&M manual submittal and requirements**

The Permittee must:

1. Update the operations and maintenance (O&M) manual that meets the requirements of WAC 173-219-240 and submit it to Ecology for approval by December 15, 2023. The updated manual must include all elements of the WRF Improvements Phase 1 project. The Permittee must submit a paper copy or an electronic copy through secure file transfer.
2. Submit to Ecology for review and approval substantial changes or updates to the O&M manual whenever it incorporates them into the manual.
3. Keep the approved O&M manual at the permitted facility.
4. Follow the instructions and procedures of this manual.

##### **b. O&M manual components**

The O&M manual for the reclaimed water facility must include all contents listed in WAC 173-219-240(2) and be consistent with the guidance in section 5.2.6 of the *Reclaimed Water Facilities Manual* (Purple Book). Required content for the O&M manual include, but are not limited to:

1. Emergency procedures for plant shutdown and cleanup in event of wastewater or reclaimed water system upset or failure.
2. System maintenance procedures that contribute to the generation of wastewater or may result in the discharge of reclaimed water at an unauthorized location.
3. Reporting protocols for submitting reports to Ecology to comply with the reporting requirements in this permit.
4. Any directions to maintenance staff when cleaning, or maintaining other equipment or performing other tasks which are necessary to protect the operation of the wastewater or reclaimed water system (for example, defining maximum allowable discharge rate for

draining a tank, blocking all floor drains before beginning the overhaul of a stationary engine.)

5. Treatment plant process control monitoring schedule.
6. Sampling protocols and procedures for compliance with the sampling and reporting requirements in the reclaimed water permit.
7. Procedures to ensure that “off spec” reclaimed water is re-treated so that it meets all reclaimed water permit limits or is discharged through an approved NPDES outfall according to the terms and conditions of the NPDES permit. “Off spec” refers to water produced by the reclaimed water facility that does not meet required water quality requirements or is otherwise not treated according to the requirements of this reclaimed water permit.
8. Procedures to decontaminate reclaimed water piping and other appurtenances prior to returning the facilities to reclaimed water service following incidents when off spec reclaimed water is produced.
9. Minimum staffing adequate to operate and maintain the treatment processes and carry out compliance monitoring required by the permit.

## **R7. Pretreatment and source control**

The Permittee must implement source water controls that prevent the presence of substances that may affect the reclaimed water quality or impact the ability to produce reclaimed water in accordance with this permit. The treatment of domestic sewage used as a source water for the permitted facility must comply with Special Condition S6, Pretreatment, of this permit.

## **R8. Compliance schedule – Distribution Improvements**

To achieve compliance with this permit, the Permittee must complete the tasks outlined in the following table by the dates specified.

**Table 19 – Compliance Schedule**

|    | <b>Tasks</b>                                                                                 | <b>Date Due</b>   |
|----|----------------------------------------------------------------------------------------------|-------------------|
| 1. | Submit a draft engineering report for distribution system modifications, as described below. | July 1, 2023      |
| 2. | Submit a final, approvable engineering report for distribution system modifications.         | December 31, 2023 |
| 3. | Submit plans and specifications for identified distribution system improvements.             | December 31, 2024 |
| 4. | Complete construction of distribution system improvements.                                   | June 30, 2026     |

- A. The Permittee must evaluate modifications to the reclaimed water distribution system that are necessary to ensure reliable distribution of Class A reclaimed water to all authorized use locations. The modified distribution system must not allow contamination of reclaimed water by lower quality water, such as urban stormwater runoff. All proposed methods of reclaimed water storage and distribution must:

- Comply with the requirements of WAC 173-219-360 (Storage and distribution requirements) and WAC 173-219-310 (Cross-connection control).
- Comply with the requirements of reclaimed water condition R4 of this permit.
- Conform to guidance in chapter 7 of the 2019 Reclaimed Water Facilities Manual (Purple Book) with respect to appropriate design of reclaimed water storage and distribution facilities.

The permittee must submit a draft engineering report to Ecology for agency review by the due date listed for task 1 above. After receiving comments from Ecology and DOH on the draft document, the Permittee must make necessary changes and resubmit the document to Ecology for approval no later than the due date shown for task 2 above.

Following approval of the distribution system engineering report, the Permittee must submit plans and specifications for the design of improvement projects identified in the approved report. The Permittee must submit the plans and specifications to Ecology for approval by the due date listed for task 3 above. Following Ecology approval of proposed improvement project design documents, the Permittee must fully implement all required improvements identified in the approved engineering report and design documents. By the due date listed above for task 4, the Permittee must submit the following to Ecology:

1. A letter describing the implemented projects and the completion date(s).
  2. A Declaration of Construction form for any necessary construction projects.
- B. The Permittee must prepare and submit engineering documents require above according to the following requirements.
1. The Permittee must prepare and submit two copies of an approvable engineering report in accordance with WAC 173-219-210. The Permittee must submit an electronic copy of the engineering report (preferably as a PDF) contained on a portable storage device (CD, DVD, or flash drive) or through a secure file transfer portal.
  2. The engineering report must contain any appropriate requirements as described in the following guidance:
    - a. *Reclaimed Water Facilities Manual* (Washington State Department of Ecology Publication No. 15-10-024, 2019)
    - b. *Water System Design Manual* (Washington State Department of Health Publication No. DOH 331-123, 2009)
    - c. Other reference documents listed in WAC 173-240-040, as appropriate
  3. The Permittee must prepare and submit two copies of approvable plans and specifications to Ecology for review and approval in accordance with WAC 173-219- 220. The Permittee must submit an electronic copy of the engineering report (preferably as a PDF) contained on a portable storage device (CD, DVD, or flash drive) or through a secure file transfer portal.
  4. The plans and specifications submittal must include the following:
    - a. Identification of all potential cross-connections at the facility and the device or assembly to be used to prevent the cross-connection. Cross-connections include

connections between potable water sources and reclaimed water as well as between reclaimed water and other lower-quality water.

- b. A field commissioning plan for new facilities that documents the procedures and requirements for testing all new processes, equipment, and reactors used to produce reclaimed water.
5. Within thirty (30) days construction completion, submit the Declaration of Construction form (WAC 173-240-095) to Ecology at the address listed in Reclaimed Condition R3.C. Submit a paper copy of the form stamped and signed by the professional engineer responsible for the construction oversight.
- C. Failure to complete the tasks required above by their due dates is a violation of this permit. Violation of this compliance schedule may result in Ecology modifying this permit to remove authorization for the Permittee to distribute reclaimed water to those users that are not connected to a distribution system that complies with the terms of this permit and with the requirements of WAC 173-219.

If the Permittee becomes aware of circumstances that may prevent it from completing the tasks on schedule, it must immediately notify Ecology, in writing, of the potential non-compliance, the reasons for delay and the steps it is taking to complete the task in a timely manner. The Permittee must submit such notice within fourteen (14) calendar days of the date it becomes aware of the potential non-compliance. The Permittee may also request that Ecology consider a schedule change through a permit modification.

## **R9. Application for permit renewal or modification for facility changes**

The Permittee must submit an application for renewal of this Reclaimed Water Permit by December 31, 2025. The reclaimed water permit application is in addition to the NPDES permit application required by Special Condition S12 of this permit.

The Permittee must also submit a new or supplemental application at least one hundred eighty (180) days prior to commencement of discharges, resulting from the activities listed below, which may result in permit violations. These activities include increasing the class of water produced at the permitted facility from Class B to Class A; facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility.

## General Conditions

### G1. Signatory requirements

1. All applications submitted to Ecology must be signed and certified.
  - a. In the case of corporations, by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
    - A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or
    - 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.
  - b. In the case of a partnership, by a general partner.
  - c. In the case of sole proprietorship, by the proprietor.
  - d. In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.

Applications for permits for domestic wastewater facilities that are either owned or operated by, or under contract to, a public entity shall be submitted by the public entity.
2. 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:
  - a. The authorization is made in writing by a person described above and submitted to Ecology.
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
3. Changes to authorization. If an authorization under paragraph G1.2, above, 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 G1.2, above, must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. Certification. Any person signing a document under this 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 inspection and entry**

The Permittee must allow an authorized representative of Ecology, upon the presentation of credentials and such other documents as may be required by law:

1. To enter upon the premises where a discharge is located or where any records must be kept under the terms and conditions of this permit.
2. To have access to and copy, at reasonable times and at reasonable cost, any records required to be kept under the terms and conditions of this permit.
3. To inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, methods, or operations regulated or required under this permit.
4. To sample or monitor, at reasonable times, any substances or parameters at any location for purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act.

## **G3. Permit actions**

This permit may be modified, revoked and reissued, or terminated either at the request of any interested person (including the Permittee) or upon Ecology's initiative. However, the permit may only be modified, revoked and reissued, or terminated for the reasons specified in 40 CFR 122.62, 40 CFR 122.64 or WAC 173-220-150 according to the procedures of 40 CFR 124.5.

1. The following are causes for terminating this permit during its term, or for denying a permit renewal application:
  - 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 determination that the permitted activity endangers human health or the environment, or contributes to water quality standards violations and can only be regulated to acceptable levels by permit modification or termination.
  - e. 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.
  - f. Nonpayment of fees assessed pursuant to RCW 90.48.465.
  - g. Failure or refusal of the Permittee to allow entry as required in RCW 90.48.090.
2. The following are causes for modification but not revocation and reissuance except when the Permittee requests or agrees:
  - a. A material change in the condition of the waters of the state.

- b. New information not available at the time of permit issuance that would have justified the application of different permit conditions.
  - c. Material and substantial alterations or additions to the permitted facility or activities which occurred after this permit issuance.
  - d. Promulgation of new or amended standards or regulations having a direct bearing upon permit conditions, or requiring permit revision.
  - e. The Permittee has requested a modification based on other rationale meeting the criteria of 40 CFR Part 122.62.
  - f. Ecology has determined that good cause exists for modification of a compliance schedule, and the modification will not violate statutory deadlines.
  - g. Incorporation of an approved local pretreatment program into a municipality's permit.
3. The following are causes for modification or alternatively revocation and reissuance:
    - a. When cause exists for termination for reasons listed in 1.a through 1.g of this section, and Ecology determines that modification or revocation and reissuance is appropriate.
    - b. When Ecology has received notification of a proposed transfer of the permit. A permit may also be modified to reflect a transfer after the effective date of an automatic transfer (General Condition G7) but will not be revoked and reissued after the effective date of the transfer except upon the request of the new Permittee.

#### **G4. Reporting planned changes**

The Permittee must, as soon as possible, but no later than one hundred eighty (180) days prior to the proposed changes, give notice to Ecology of planned physical alterations or additions to the permitted facility, production increases, or process modification which will result in:

1. The permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b).
2. A significant change in the nature or an increase in quantity of pollutants discharged.
3. A significant change in the Permittee's sludge use or disposal practices. Following such notice, and the submittal of a new application or supplement to the existing application, along with required engineering plans and reports, this permit may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation.

#### **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 must be submitted at least one hundred eighty (180) days prior to the planned start of construction unless a shorter time is approved by Ecology. Facilities must be constructed and operated in accordance with the approved plans.



## **G6. Compliance with other laws and statutes**

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

## **G7. Transfer of this permit**

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the Permittee must notify the succeeding owner or controller of the existence of this permit by letter, a copy of which must be forwarded to Ecology.

### **1. Transfers by Modification**

Except as provided in paragraph (2) below, this permit may be transferred by the Permittee to a new owner or operator only if this 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 the Clean Water Act.

### **2. Automatic Transfers**

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

- a. The Permittee notifies Ecology at least thirty (30) days in advance of the proposed transfer date.
- b. The notice includes a written agreement between the existing and new Permittees containing a specific date transfer of permit responsibility, coverage, and liability between them.
- c. Ecology does not notify the existing Permittee and the proposed new Permittee of its intent to modify or revoke and reissue this permit. A modification under this subparagraph may also be minor modification under 40 CFR 122.63. If this notice is not received, the transfer is effective on the date specified in the written agreement.

## **G8. Reduced production for compliance**

The Permittee, in order to maintain compliance with its permit, must control production and/or all discharges upon reduction, loss, failure, or bypass of the treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

## **G9. Removed substances**

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters must not be resuspended or reintroduced to the final effluent stream for discharge to state waters.

## **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. Other requirements of 40 CFR**

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

## **G12. Additional monitoring**

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

## **G13. Payment of fees**

The Permittee must submit payment of fees associated with this permit as assessed by Ecology.

## **G14. Penalties for violating permit conditions**

Any person who is found guilty of willfully violating the terms and conditions of this permit is deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars (\$10,000) 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 may incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars (\$10,000) 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 deemed to be a separate and distinct violation.

## **G15. Upset**

Definition – “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.

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limits if the requirements of the following paragraph are met.

A Permittee who wishes to establish the affirmative defense of upset must 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 being properly operated at the time of the upset.
3. The Permittee submitted notice of the upset as required in Special Condition S3.F.
4. The Permittee complied with any remedial measures required under S3.F of this permit.

In any enforcement action the Permittee seeking to establish the occurrence of an upset has the burden of proof.

## **G16. Property rights**

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

### **G17. Duty to comply**

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

### **G18. Toxic pollutants**

The Permittee must comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

### **G19. Penalties for tampering**

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two (2) years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this condition, punishment shall be a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or by both.

### **G20. Compliance schedules**

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

### **G21. Service agreement review**

The Permittee must submit to Ecology any proposed service agreements and proposed revisions or updates to existing agreements for the operation of any wastewater treatment facility covered by this permit. The review is to ensure consistency with chapters 90.46 and 90.48 RCW as required by RCW 70.150.040(9). In the event that Ecology does not comment within a thirty-day (30) period, the Permittee may assume consistency and proceed with the service agreement or the revised/updated service agreement.

## 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.

**Table 1: CONVENTIONAL POLLUTANTS**

| <b>Pollutant</b>                                   | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup> µg/L<br/>unless specified</b> | <b>Quantitation Level (QL)<sup>2</sup><br/>µg/L unless 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 dependent                    |
| E. Coli                                            |                                      | SM 9221B, 9221F,<br>9223B                  | N/A                                                         | Specified in method -<br>sample aliquot dependent                    |
| Oil and Grease (HEM) (Hexane Extractable 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                                                               |

**Table 2: NONCONVENTIONAL POLLUTANTS**

| <b>Pollutant &amp; CAS No. (if available)</b>             | <b>CAS Number<br/>(if available)</b> | <b>Recommended Analytical Protocol</b>  | <b>Detection (DL)<sup>1</sup> µg/L<br/>unless specified</b> | <b>Quantitation Level (QL)<sup>2</sup><br/>µg/L unless specified</b> |
|-----------------------------------------------------------|--------------------------------------|-----------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------|
| Alkalinity, Total                                         |                                      | SM2320-B                                |                                                             | 5 mg/L as CaCO <sub>3</sub>                                          |
| Aluminum, Total                                           | 7429-90-5                            | 200.8                                   | 2.0                                                         | 10                                                                   |
| Ammonia, Total (as N)                                     |                                      | SM4500-NH <sub>3</sub> -B and C/D/E/G/H |                                                             | 20                                                                   |
| Barium Total                                              | 7440-39-3                            | 200.8                                   | 0.5                                                         | 2.0                                                                  |
| BTEX (benzene +toluene +<br>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<br>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                                                                  |
| 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) |
| 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-SO <sub>3</sub> B                                            |     | 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                                          |

| <b>PRIORITY POLLUTANTS</b>                 | <b>PP #</b> | <b>CAS Number (if available)</b> | <b>Recommended Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/>µg/L unless specified</b> | <b>Quantitation Level (QL)<sup>2</sup> µg/L unless specified</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                                                              |

| <b>PRIORITY POLLUTANTS</b>                                    | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/>µg/L unless specified</b> | <b>Quantitation<br/>Level (QL)<sup>2</sup> µg/L<br/>unless specified</b> |
|---------------------------------------------------------------|-------------|--------------------------------------|--------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>METALS, CYANIDE &amp; TOTAL PHENOLS</b>                    |             |                                      |                                            |                                                             |                                                                          |
| Thallium, Total                                               | 127         | 7440-28-0                            | 200.8                                      | 0.09                                                        | 0.36                                                                     |
| 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                                                                       |

| <b>PRIORITY POLLUTANTS</b>                            | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup> µg/L<br/>unless specified</b> | <b>Quantitation<br/>Level (QL)<sup>2</sup> µg/L<br/>unless specified</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                                                                      |
| 4,6-dinitro-o-cresol<br>(2-methyl-4,6,-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<br>(4-chloro-3-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                                                                      |

| <b>PRIORITY POLLUTANTS</b> | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup> µg/L<br/>unless specified</b> | <b>Quantitation<br/>Level (QL)<sup>2</sup> µg/L<br/>unless specified</b> |
|----------------------------|-------------|--------------------------------------|--------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| <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                                                                     |

| <b>PRIORITY POLLUTANTS</b>                                                  | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup> µg/L<br/>unless specified</b> | <b>Quantitation<br/>Level (QL)<sup>2</sup> µg/L<br/>unless specified</b> |
|-----------------------------------------------------------------------------|-------------|--------------------------------------|--------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>VOLATILE COMPOUNDS</b>                                                   |             |                                      |                                            |                                                             |                                                                          |
| Carbon tetrachloride                                                        | 6           | 56-23-5                              | 624.1/601 or 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                                                                     |
| 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                                                                     |
| 1,2-Trans-Dichloroethylene<br>(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                                                                      |



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

| <b>PRIORITY POLLUTANTS</b>                                         | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup><br/>µg/L unless specified</b> | <b>Quantitation<br/>Level (QL)<sup>2</sup> µg/L unless<br/>specified</b> |
|--------------------------------------------------------------------|-------------|--------------------------------------|--------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)</b> |             |                                      |                                            |                                                             |                                                                          |
| 1,2-Diphenylhydrazine<br>(as Azobenzene)                           | 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-cd)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                                                                      |
| 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                                                                      |

| <b>PRIORITY POLLUTANT</b>                              | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup> µg/L<br/>unless specified</b> | <b>Quantitation Level<br/>(QL)<sup>2</sup> µg/L unless<br/>specified</b> |
|--------------------------------------------------------|-------------|--------------------------------------|--------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| <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                                                                   |

| <b>PRIORITY POLLUTANTS</b> | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup> µg/L<br/>unless specified</b> | <b>Quantitation<br/>Level (QL)<sup>2</sup> µg/L<br/>unless specified</b> |
|----------------------------|-------------|--------------------------------------|--------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| <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                                                                  |

| <b>PRIORITY POLLUTANTS</b> | <b>PP #</b> | <b>CAS Number<br/>(if available)</b> | <b>Recommended<br/>Analytical Protocol</b> | <b>Detection (DL)<sup>1</sup> µg/L<br/>unless specified</b> | <b>Quantitation<br/>Level (QL)<sup>2</sup> µg/L<br/>unless specified</b> |
|----------------------------|-------------|--------------------------------------|--------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>PESTICIDES/PCBs</b>     |             |                                      |                                            |                                                             |                                                                          |
| 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                                                                 |
| 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, or 5) x 10<sup>n</sup>, 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://apps.ecology.wa.gov/publications/documents/97602.pdf>
5. NWTPH Gx - Northwest Total Petroleum Hydrocarbons Gasoline Extended Range – see <https://apps.ecology.wa.gov/publications/documents/97602.pdf>
6. 1, 3-dichloropropylene (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.

## Appendix B

### Sample Annual Report Questionnaire

Condition R3.B requires the Permittee to submit an annual report using a questionnaire form in the Water Quality Permitting Portal – Permit Submittals application. The following table provides an example of the questions that will appear in the form. While Ecology’s goal is to maintain consistency between this sample and the questions asked in the Permitting Portal, the permit condition requires the Permittee to answer the questions as they appear on the web form. Ecology may periodically alter the questions in the web form to improve clarity in the way questions are asked.

The questionnaire will require the Permittee to either fill in numbers, upload files for supporting documents, or answer “yes/no” questions. Most “yes/no” questions will trigger a need to supply additional information or files if the Permittee answers “yes”.

Where the questionnaire asks the Permittee to upload a file, Ecology prefers a single file upload. The Permittee may, however, upload multiple files for a single question, if needed. The Portal application provides instructions for uploading multiple files.

| Question Number | Permit Section | Question                                                                                                                                                                                                                                                                                                                                                                                                                                  | Expected Response   |
|-----------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1a              | R3.B           | How many days did the facility produce reclaimed water during the last year?                                                                                                                                                                                                                                                                                                                                                              | enter number        |
| 1b              | R3.B           | How many days did the facility distribute reclaimed water during the last year?                                                                                                                                                                                                                                                                                                                                                           | enter number        |
| 2a              | R3.B           | What was the total volume (in millions of gallons) of reclaimed water produced during the last year?                                                                                                                                                                                                                                                                                                                                      | enter number        |
| 2b              | R3.B           | What was the total volume (in millions of gallons) of reclaimed water distributed during the last year?                                                                                                                                                                                                                                                                                                                                   | enter number        |
| 3               | R3.B           | Reclaimed Water Distribution Summary: Using the file upload box below, please attach a file (spreadsheet or written report) that provides a detailed breakdown of reclaimed water distributed to each authorized user. In addition, please use the data fields in questions 3a through 3j below to report the volume of reclaimed water distributed to each use category authorized in your permit (enter volume in millions of gallons). | upload file         |
| 3a              | R3.B           | <i>Indoor Uses</i>                                                                                                                                                                                                                                                                                                                                                                                                                        | <i>enter number</i> |
| 3b              | R3.B           | <i>Commercial, Industrial, and Institutional Uses</i>                                                                                                                                                                                                                                                                                                                                                                                     | <i>enter number</i> |
| 3c              | R3.B           | <i>Irrigation – Class A food crops</i>                                                                                                                                                                                                                                                                                                                                                                                                    | <i>enter number</i> |
| 3d              | R3.B           | <i>Irrigation – Class A other</i>                                                                                                                                                                                                                                                                                                                                                                                                         | <i>enter number</i> |
| 3e              | R3.B           | <i>Irrigation – Class B process food crops, nonfood crops, and orchard frost protection</i>                                                                                                                                                                                                                                                                                                                                               | <i>enter number</i> |
| 3f              | R3.B           | <i>Irrigation – Class B other</i>                                                                                                                                                                                                                                                                                                                                                                                                         | <i>enter number</i> |
| 3g              | R3.B           | <i>Wetland Enhancement (all classes)</i>                                                                                                                                                                                                                                                                                                                                                                                                  | <i>enter number</i> |
| 3h              | R3.B           | <i>Surface Water Augmentation</i>                                                                                                                                                                                                                                                                                                                                                                                                         | <i>enter number</i> |
| 3i              | R3.B           | <i>Groundwater Recharge (direct and indirect)</i>                                                                                                                                                                                                                                                                                                                                                                                         | <i>enter number</i> |
| 3j              | R3.B           | <i>Aquifer Storage and Recovery</i>                                                                                                                                                                                                                                                                                                                                                                                                       | <i>enter number</i> |

| Question Number                                                                                                                                                                                          | Permit Section | Question                                                                                                                                                                                                                               | Expected Response                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <i>Questions 3a-3j will include an option to check "N/A" for any use that category that is not applicable to the permit.</i>                                                                             |                |                                                                                                                                                                                                                                        |                                                                         |
| 4                                                                                                                                                                                                        | R4.B.a         | Were any new user or distributors added to the system during the last year?                                                                                                                                                            | Yes or No                                                               |
| 4a                                                                                                                                                                                                       | R4.B.a         | Attach a list identifying the new users, the type of uses, and the use locations along with the date of Ecology's approval of the use agreement.                                                                                       | upload file                                                             |
| 5                                                                                                                                                                                                        | R4.B.d         | Were any actions taken during the last year to enforce requirements of a use or distribution agreement?                                                                                                                                | Yes or No                                                               |
| 5a                                                                                                                                                                                                       | R4.B.d         | Attach a file identifying the user or distributor involved, the nature of the violation, and the remedial actions taken.                                                                                                               | upload file                                                             |
| 6                                                                                                                                                                                                        | R3.B           | Were there any reclaimed water limit violations reported on monthly DMRs during the last year (includes all limits associated with reclaimed water production as well as distribution system chlorine residual limits, if applicable)? | Yes or No                                                               |
| 6a                                                                                                                                                                                                       | R3.B           | How many violations were reported?                                                                                                                                                                                                     | enter number                                                            |
| 7                                                                                                                                                                                                        | R6.B.a         | Did the facility diverted off-spec reclaimed water for disposal or retreatment during the last year?                                                                                                                                   | Yes or No                                                               |
| 7a                                                                                                                                                                                                       | R6.B.a         | What volume of water was diverted (in millions of gallons)?                                                                                                                                                                            | enter number                                                            |
| 7b                                                                                                                                                                                                       | R6.B.a         | Please attach a file that describes the circumstances that required diversion and the steps taken to remedy.                                                                                                                           | upload file                                                             |
| 8                                                                                                                                                                                                        | R4.B.b.7       | Was any reclaimed water diverted from authorized use locations due to distribution system maintenance or repair?                                                                                                                       | Yes or No                                                               |
| 8a                                                                                                                                                                                                       | R4.B.b.7       | What volume of water was diverted (in millions of gallons)?                                                                                                                                                                            | enter number                                                            |
| 8b                                                                                                                                                                                                       | R4.B.b.7       | Please attach a file that describes the circumstances that required diversion and the steps taken to remedy.                                                                                                                           | upload file                                                             |
| 9                                                                                                                                                                                                        | R3.G.a.3       | Were any backflow incidents discovered and reported during the last year?                                                                                                                                                              | Yes or No                                                               |
| 9a                                                                                                                                                                                                       | R3.G.a.3       | How many incidents were reported?                                                                                                                                                                                                      | enter number                                                            |
| 9b                                                                                                                                                                                                       | R3.G.a.3       | Attach a document that summarizes the reported incidents and remedial actions taken.                                                                                                                                                   | upload file                                                             |
| 10                                                                                                                                                                                                       | R4.C           | Cross-Connection Control Summary: Does your permit include a requirement to submit an annual Cross-Connection Control Summary Report?                                                                                                  | Yes or No                                                               |
| 10a                                                                                                                                                                                                      | R4.C           | Select the type of summary your permit requires:                                                                                                                                                                                       | Select report type from menu                                            |
| 10b                                                                                                                                                                                                      | R4.C           | If 'other' selected please describe the type of summary:                                                                                                                                                                               | enter text to describe report type, if "other" selected in question 10a |
| 10c                                                                                                                                                                                                      | R4.C           | Attach a document or documents that provide the required summary report                                                                                                                                                                | upload file                                                             |
| <i>Questions 4a, 5a, 6a, 7a, 7b, 8a, 8b, 9a, 9b, 10a, 10b, and 10c are conditional questions that will only appear if the Permittee answers "Yes" in questions 4, 5, 6, 7, 8, 9 or 10, respectively.</i> |                |                                                                                                                                                                                                                                        |                                                                         |