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Expiration Date: October 31, 2020
Amendment (1) Date: July 1, 2016
Amendment (2) Date: March 14, 2017
Amendment (3) Date: June 1, 2020

State Waste Discharge Permit Number ST0005398

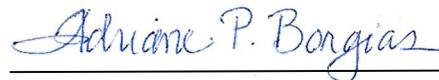
State of Washington
DEPARTMENT OF ECOLOGY
Eastern Regional Office
4601 North Monroe Street
Spokane, Washington 99205-1265

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

Basin City Mobile Home Park
7471 Road 170
Basin City, Washington 99343

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

Treatment Location: Approximately one mile west of Basin City, east of Sagehill Road, and north of Road 170.	Discharge Location: SE ¼, NW ¼, Section 22, T. 13N, Range 29 EWM
Treatment Type: Facultative Lagoons, constructed wetland	Latitude: 46.60097 Longitude: -119.169853



Adriane P. Borgias
Water Quality Section Manager
Eastern Regional Office
Washington State Department of Ecology

Table of Contents

Summary of Permit Report Submittals	4
Special Conditions	5
S1. Discharge limits	5
S1.A. Influent limits	5
S1.B. Best management practices/pollution prevention	5
S2. Monitoring requirements	6
S2.A. Wastewater monitoring.....	6
S2.B. Groundwater monitoring.....	7
S2.C. Irrigation canal	8
S2.D. Sampling and analytical procedures	8
S2.E. Flow measurement devices	9
S2.F. Laboratory accreditation	9
S3. Reporting and recording requirements	9
S3.A. Discharge monitoring reports.....	9
S3.B. Permit Submittals and Schedules	11
S3.C. Records retention	11
S3.D. Recording of results	11
S3.E. Additional monitoring by the Permittee.....	12
S3.F. Reporting permit violations	12
S3.G. Other reporting.....	14
S3.H. Maintaining a copy of this permit.....	14
S4. Facility loading	14
S4.A. Design criteria – Influent to lagoons.....	14
S4.B. Design criteria – effluent to wetland.....	15
S4.C. Plans for maintaining adequate capacity	15
S4.D. Duty to mitigate	16
S4.E. Notification of new or altered sources	16
S4.F. Wasteload assessment	16
S5. Operation and maintenance	17
S5.A. Certified operator	17
S5.B. Lab accreditation	17
S5.C. O & M program	17
S5.D. Short-term reduction.....	18
S5.E. Electrical power failure	18
S5.F. Prevent connection of inflow	18
S5.G. Bypass procedures	19
S5.H. Operations and maintenance manual	21
S6. Pretreatment	22
S6.A. General requirements.....	22

S6.B.	Duty to enforce discharge prohibitions	22
S6.C.	Wastewater discharge permit required	23
S6.D.	Identification and reporting of existing, new, and proposed industrial users	24
S7.	Solid wastes	24
S7.A.	Solid waste handling	24
S7.B.	Leachate	24
S8.	Leak Detection Plan	24
S9.	Application for permit renewal or modification for facility changes.....	25
General Conditions.....		26
G1.	Signatory requirements	26
G2.	Right of entry	26
G3.	Permit actions	27
G4.	Reporting a cause for modification	27
G5.	Plan review required	27
G6.	Compliance with other laws and statutes	27
G7.	Transfer of this permit.....	27
G8.	Payment of fees	28
G9.	Penalties for violating permit conditions	28
G10.	Duty to provide information.....	28
G11.	Duty to comply.....	28
G12.	Service agreement review	29
Appendix A.....		30

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	December 15, 2015
S3.A	Discharge Monitoring Report (DMR)	Quarterly	January 15, 2016
S3.F	Reporting Permit Violations	As necessary	-
S4.B	Plans for Maintaining Adequate Capacity	As necessary	-
S4.D	Notification of New or Altered Sources	As necessary	-
S4.F	Wasteload Assessment	Annually	May 1, 2016
S5.A	Certified Operator	1/permit cycle	September 30, 2017
S5.B	Lab Accreditation – Notification of Use	1/permit cycle	June 1, 2016
S5.G	Reporting Bypasses	As necessary	-
S5.H	Operations and Maintenance Manual	1/permit cycle	June 1, 2017
S8.	Leak Detection Plan	1/permit cycle	January 31, 2018
S9.	Application for Permit Renewal	1/permit cycle	October 31, 2019
G1.	Notice of Change in Authorization	As necessary	-
G4.	Permit Application for Substantive Changes to the Discharge	As necessary	-
G5.	Engineering Report for Construction or Modification Activities	As necessary	-
G7.	Notice of Permit Transfer	As necessary	-
G10.	Duty to Provide Information	As necessary	-
G12.	Contract Submittal	As necessary	-

Special Conditions

S1. Discharge limits

S1.A. Influent limits

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

Wastewater flows and loadings must not exceed the Design Criteria specified in Section S4.

Beginning on the effective date of this permit, the Permittee is authorized to discharge domestic wastewater to lined evaporation and facultative lagoons at the permitted location subject to the following limits:

Table 2: Influent Limits Outfall 001

Latitude 46.60037 Longitude -119.16985

Parameter	Average Monthly ^a	Total Annual
Flow	92,512 gallons per day (gpd)	29.6 million gallons (MG)

Parameter	Minimum	Maximum
pH	6.0 standard units	9.0 standard units

^a Average monthly effluent limit means the highest allowable average of daily flows over a calendar month. To calculate the discharge value to compare to the limit, you add the value of each daily influent flow measured during a calendar month and divide this sum by the total number of daily flow values.

S1.B. Best management practices/pollution prevention

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

1. Do not discharge in excess of the hydraulic capacity of the lined facultative lagoons.
2. Do not discharge priority pollutants, dangerous wastes, or toxics in toxic amounts.

S2. Monitoring requirements

S2.A. Wastewater monitoring

The Permittee must monitor the wastewater prior to discharging into the facultative lagoons.

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

Table 3: Monitoring Requirements – 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	Minimum Sampling Frequency	Sample Type
Flow (Avg. and Daily Max)	gpd (gallons per day)	Continuous ^a	Meter
Flow Volume (Total Monthly, Total Annual)	Gallons	Recorded ^d	Calculated
Biochemical Oxygen Demand (BOD ₅)	mg/L	Quarterly	8-Hour Manual Composite ^b
BOD ₅	lbs/day	Quarterly	Calculated ^c
Total Kjeldahl Nitrogen (TKN)	mg/L	Quarterly	8-Hour Manual Composite ^b
TKN	lbs/day	Quarterly	Calculated ^c

Table 3 Footnotes:

^a Continuous means uninterrupted except for brief lengths of time for calibration, power failure, or unanticipated equipment repair or maintenance.

^b 8-Hour Manual Composite means at least four separate samples of equal volume, collected at two to three hour intervals during a normal work day which is at least eight hours long. All attempts shall be made to keep the sampling timing and methodology consistent over the entire permit cycle.

^c lbs/day = (concentration, mg/L) x $(\frac{flow, gpd}{1,000,000})$ x 8.34

^d Recorded means daily values are not reported on the Discharge Monitoring Report; only a monthly summary value is reported.

Table 4: Monitoring Requirements – Final Wastewater Effluent

Final Wastewater Effluent means wastewater, which is discharged from Lagoon #3 into the wetland.

Parameter	Units	Minimum Sampling Frequency	Sample Type
Flow	gpd	Continuous ^a	Metered
pH	Standard Units	1/month	Grab ^b
BOD ₅	mg/L	1/month	Grab ^b
BOD ₅	lbs/day	1/month	Calculated ^c
TKN	mg/L	1/month	Grab ^b
TKN	lbs/day	1/month	Calculated ^c
Total Dissolved Solids	mg/L	1/month	Grab ^b

Table 4 Footnotes:

^a Continuous means uninterrupted except for brief lengths of time for calibration, power failure, or unanticipated equipment repair or maintenance.

^b Grab means an individual sample collected over a 15-minute, or less, period.

^c lbs/day = (concentration, mg/L) x $(\frac{flow, gpd}{1,000,000})$ x 8.34

S2.B. Groundwater monitoring

The Permittee must monitor groundwater at monitoring wells **BC-1, -2, and -3** in accordance with the following schedule and the requirements specified in **Appendix A**.

Table 5: Monitoring Requirements – Groundwater Monitoring

Parameter	Units & Speciation	Sampling Frequency	Sample Type
Measured Depth to Groundwater	Feet (nearest 0.01 ft)	Quarterly	Field Measurement
Total Coliform ^a	#/100 mL	Quarterly	Grab
Total Dissolved Solids	mg/L	Quarterly	Grab
Nitrate plus Nitrite Nitrogen	mg/L as N	Quarterly	Grab

Table 5 Footnotes:

^a Report a numerical value for total coliforms following the procedures in Ecology’s [Information Manual for Wastewater Treatment Plant Operators](#), Publication Number 04-10-020 available online at <https://fortress.wa.gov/ecy/publications/documents/0410020.pdf>. Do not report a result as too numerous to count (TNTC).

S2.C. Irrigation canal

The Permittee must monitor the irrigation canal at the downstream weir in accordance with the following schedule and the requirements specified in **Appendix A**.

Table 6: Monitoring Requirements – Irrigation Canal

Parameter	Units & Speciation	Sampling Frequency	Sample Type
Total Coliforms	#/100 mL	Quarterly	Grab
Total Dissolved Solids	mg/L	Quarterly	Grab
Measured Depth to Water	Feet (nearest 0.01 ft)	Quarterly	Field Measurement

S2.D. Sampling and analytical procedures

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

Groundwater sampling must conform to the latest protocols in the Implementation Guidance for the Ground Water Quality Standards, (Ecology 1996).

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

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

S2.E. Flow measurement devices

The Permittee must:

1. Select and use appropriate flow measurement 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 according to manufacturers requirements.
4. Maintain calibration records for at least three years.

S2.F. 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, 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.

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.

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

2. Enter the “No Discharge” reporting code for an entire DMR, for a specific monitoring point, or for a specific parameter as appropriate, if the Permittee did not discharge wastewater or a specific pollutant during a given monitoring period.
3. Report single analytical values below detection as “less than the detection level (DL)” by entering < followed by the numeric value of the detection level (e.g. < 2.0) on the DMR. If the method used did not meet the minimum DL and quantitation level (QL) identified in the permit, report the actual QL and DL in the comments or in the location provided.
4. **Not** report zero for bacteria monitoring. Report as required by the laboratory method.
5. Calculate and report an arithmetic average value for each day for bacteria if multiple samples were taken in one day.
6. 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.
7. 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.
8. Calculate average values and calculated total values (unless otherwise specified in the permit) using:
 - a. The reported numeric value for all parameters measured between the agency-required detection value and the agency-required quantitation value.
 - b. One-half the detection value (for values reported below detection) if the lab detected the parameter in another sample from the same monitoring point for the reporting period.
 - c. Zero (for values reported below detection) if the lab did not detect the parameter in another sample for the reporting period.
9. Ensure that DMRs are electronically submitted no later than the dates specified below, unless otherwise specified in this permit.

10. 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 15th day of the following month.
- b. Submit **quarterly** DMRs by the 15th day of the month following the quarterly sampling period; April 15, July 15, October 15, and January 15. Quarterly sampling periods are January through March, April through June, July through September and October through December.

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 Program, Department of Ecology, Eastern Regional Office, 4601 North Monroe Street, Spokane, WA 99205-1265.**

S3.C. Records retention

The Permittee must retain records of all monitoring information for a minimum of three years. Such information must include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The Permittee must extend this period of retention during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by Ecology.

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

S3.D. Recording of results

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

1. The date, exact place and time of sampling.
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 30 days of sampling.

a. Immediate reporting

The Permittee must immediately report to Ecology and the Local Health jurisdiction (at the number listed below), all:

- Collection system overflows.
- Any failures of the sewage system (pipe breaks, etc.).
- Overflows or leaks of the lagoons that discharge to a waterbody used as a source of drinking or irrigation water.

Ecology Eastern Regional Office (509) 329-3400

Benton-Franklin Counth Health (509) 547-9737
Dept.

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.
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.
4. Any violation of a maximum daily or instantaneous maximum discharge limit for any of the pollutants in Section S1.A of this permit.
5. Any overflow prior to the treatment works, whether or not such overflow endangers health or the environment or exceeds any effluent limit in the permit.

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. Maps, drawings, aerial photographs, or pictures to show the location and cause(s) of the non-compliance.
3. The period of noncompliance, including exact dates and times.
4. The estimated time the Permittee expects the noncompliance to continue if not yet corrected.
5. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
6. 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 WAC. Instructions are available on the Ecology [Report a Spill](https://ecology.wa.gov/About-us/Get-involved/Report-an-environmental-issue/Report-a-spill) webpage at <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 – Influent to lagoons

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

Table 7: Design Criteria – Influent to Lagoons

Parameter	Design
Average Monthly Influent Flow	92,512 gallons/day
BOD ₅ Influent Loading for Maximum Month	139 lbs/day
TKN Influent Loading for Maximum Month	30 lbs/day

S4.B. Design criteria – effluent to wetland

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

Table 8: Design Criteria – Effluent to Wetland

Parameter	Design
BOD ₅ Influent Loading for Maximum Month	70.5 lbs/day
TKN Influent Loading for Maximum Month	18.8 lbs/day
Average Monthly Flow	66,000 gpd
Maximum Monthly Flow	73,000 gpd

S4.C. 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.D. Duty to mitigate

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

S4.E. 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.F. Wasteload assessment

The Permittee must conduct an annual assessment of its influent flow and waste load and submit a report to Ecology **by May 1, 2016**, and annually thereafter.

The report must contain:

1. A description of compliance or noncompliance with the permit influent and effluent limits.
2. A comparison between the existing and design:
 - a. Monthly average dry weather and wet weather flows.
 - b. Peak flows.
 - c. BOD₅ loading.
 - d. TKN loadings.
3. The percent change in the above parameters since the previous report (except for the first report).
4. The present and design population or population equivalent.
5. The projected population growth rate.

6. The estimated date upon which the Permittee expects the wastewater treatment plant to reach design capacity, according to the most restrictive of the parameters above.

Ecology may modify the interval for review and reporting if it determines that a different frequency is sufficient.

S5. Operation and maintenance

The Permittee must, at all times, properly operate and maintain all facilities or systems of treatment and control (and related appurtenances), which are installed to achieve compliance with the terms and conditions of this permit.

Proper operation and maintenance also includes keeping a daily operation logbook (paper or electronic), adequate laboratory controls, and appropriate quality assurance procedures. This provision 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

An operator certified **for at least a Class I plant** by the State of Washington must be in responsible charge of the day-to-day operation of the wastewater treatment plant. An operator certified **for at least a Class I plant** must be in charge during all regularly scheduled shifts.

No later than September 30, 2017, the Permittee must notify Ecology that a Certified Operator Class I is in charge of the day-to-day operations of the Permittee's wastewater treatment facility.

S5.B. Lab accreditation

No later than June 1, 2016, the Permittee must notify Ecology that all testing requirements in Section S2 of this permit are performed by an accredited lab.

The notification must include:

1. The name of the lab that performs each test.
2. The test method for each parameter.

S5.C. O & M 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 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. Make maintenance records available for inspection at all times.

S5.D. 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, 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.E. 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.

S5.F. 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.G. Bypass procedures

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

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

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

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

This permit authorizes such a bypass only if:

- a. Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.
- b. No feasible alternatives to the bypass exist, such as:
 - The use of auxiliary treatment facilities.
 - Retention of untreated wastes.
 - 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.
 - Transport of untreated wastes to another treatment facility.
- c. Ecology is properly notified of the bypass as required in Special Condition S3.F of this permit.

3. If bypass is anticipated and has the potential to result in noncompliance of this permit.

- a. The Permittee must notify Ecology at least 30 days before the planned date of bypass.

The notice must contain:

- A description of the bypass and its cause.
- An analysis of all known alternatives which would eliminate, reduce, or mitigate the need for bypassing.

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

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

S5.H. Operations and maintenance manual

a. O&M manual submittal and requirements

The Permittee must:

1. **No later than June 1, 2017**, the Permittee must prepare and submit an updated Operations and Maintenance (O&M) Manual that meets the requirements of WAC 173-240-080.
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.
5. Submit reviews, changes, and updates through the WQWebPortal.

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 in the event of wastewater system upset or failure, or collection system leak or failure.
2. Wetland operational controls and procedures.
3. Wastewater system maintenance procedures that contribute to the generation of wastewater; e.g., collection system clean out.
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.
6. Treatment plant process control monitoring schedule.
7. Wastewater sampling protocols and procedures for compliance with the sampling and reporting requirements in the wastewater discharge permit.
8. Minimum staffing adequate to operate and maintain the treatment processes and carry out compliance monitoring required by the permit.
9. Protocols and procedures for groundwater monitoring.

S6. Pretreatment

S6.A. General requirements

The Permittee must work with Ecology to ensure that all commercial and industrial users of their 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, (BOD₅, 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. Immediately notify Ecology of any proposed discharge of wastewater from a source, which may be an industrial or commercial user.
2. Require all industrial or commercial users to obtain a state waste discharge (SWD) permit from Ecology prior to accepting their non-domestic wastewater, or require proof that Ecology has determined they do not require a permit.
3. Require sources of non-domestic wastewater to apply for a SWDP and provide it a copy of the application and any Ecology responses.
4. 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 industrial or commercial users 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 an industrial or commercial user, the Permittee must notify such user by registered mail that 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 industrial or commercial users, as they are identified, that they must apply to Ecology for a State Waste Discharge permit within 30 days of such change.

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. Leak Detection Plan

No later than January 31, 2018, the Permittee must submit to Ecology for review and acceptance a leak detection plan that describes how it will test the integrity of the synthetic liners in all the lagoons during each five-year permit cycle. The Permittee must submit the report online through the WQWebPortal. The plan must include a definition of "what is a leak" and the procedures for locating and repairing one if found.

S9. Application for permit renewal or modification for facility changes

The Permittee must submit an application for renewal of this permit **by October 31, 2019.**

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

General Conditions

G1. Signatory requirements

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

1. All permit applications must be signed by either a principal executive officer or ranking elected official.
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 the person described above and is submitted to Ecology at the time of authorization, and
 - b. The authorization specifies 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 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 entry

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

G3. Permit actions

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

1. Violation of any permit term or condition;
2. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
3. A material change in quantity or type of waste disposal;
4. A material change in the condition of the waters of the state; or
5. Nonpayment of fees assessed pursuant to RCW 90.48.465.

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

G4. Reporting a cause for modification

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

G5. Plan review required

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

G6. Compliance with other laws and statutes

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

G7. Transfer of this permit

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

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

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

Unless this permit is automatically transferred according to Section 1. above, this permit may be transferred only if it is modified to identify the new Permittee and to incorporate such other requirements as determined necessary by Ecology.

G8. Payment of fees

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

G9. Penalties for violating permit conditions

Any person who is found guilty of willfully violating the terms and conditions of this permit is guilty of a crime, and upon conviction thereof shall be punished by a fine of up to \$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 incurs, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation is a separate and distinct offense, and in case of a continuing violation, every day's continuance is considered a separate and distinct violation.

G10. Duty to provide information

The Permittee must submit to Ecology, within a reasonable time, all information which Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee must also submit to Ecology upon request, copies of records required to be kept by this permit.

G11. Duty to comply

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

G12. 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 30-day 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.

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.

Conventional Pollutants

Pollutant	CAS Number (if available)	Recommended Analytical Protocol	Detection Level (DL) ¹ µg/L Unless specified	Quantitation Level (QL) ² µg/L Unless specified
Biochemical Oxygen Demand		SM5210-B		2 mg/L
pH		SM4500-H+ B	N/A	N/A

Nonconventional Pollutants

Pollutant	CAS Number (if available)	Recommended Analytical Protocol	Detection Level (DL) ¹ µg/L Unless specified	Quantitation Level (QL) ² µg/L Unless specified
Ammonia, Total (as N)		SM4500-NH3-B and C/D/E/G/H		20

Pollutant	CAS Number (if available)	Recommended Analytical Protocol	Detection Level (DL) ¹ µg/L Unless specified	Quantitation Level (QL) ² µg/L Unless specified
Chemical Oxygen Demand		SM5220-D		10 mg/L
Dissolved oxygen		SM4500-OC/OG		0.2 mg/L
Flow		Calibrated device		
Nitrate + Nitrite Nitrogen (as N)		SM4500-NO ₃ -E/F/H		100
Nitrogen, Total Kjeldahl (as N)		SM4500-N _{org} B/C and SM4500NH ₃ -B/C/D/EF/G/H		300
Total Coliform		SM 9221B SM 9222B	N/A	Specified in method; sample aliquot dependent
Total Dissolved solids		SM2540 C		20 mg/L