



Oregon

Kate Brown, Governor

Department of Environmental Quality
Eastern Region Pendleton Office
800 SE Emigrant Ave., Ste. 330
Pendleton, OR 97801
541-276-4063

July 8, 2022

Brett Blofsky
South Suburban Sanitary District
2201 Laverne Ave
Klamath Falls, OR 97603

RE: Issuance of NPDES Permit # 100700 – Modification #2

File # 83316

EPA # OR0023876

Facility: South Suburban STP, 2980 Maywood Dr., Klamath Falls
Klamath County

Your National Pollutant Disposal Elimination System Permit Modification #2 is attached. This permit is DEQ's final action on this permit application #948519.

Please read your permit carefully. Compliance with your permit is required at all times.

If you are dissatisfied with the conditions of this permit, you have 20 days to request a hearing before the Environmental Quality Commission or its authorized representative. A request for a hearing must be made in writing and state the grounds for the request. Any hearing will be conducted as a contested case hearing in accordance with ORS 183.413 through 183.470 and OAR chapter 340, division 011. If a hearing is requested, the existing permit continues in effect until a final order is issued.

Please note that your required operator certification levels are no longer listed on the face page of your permit. Pursuant to OAR chapter 340, division 049 your systems are classified as follows:

- Collection System: Class III
- Treatment System: Class II

If changes are made to your systems or if you have additional questions about operator certification requirements, please contact the DEQ Operator Certification program at opcert@deg.state.or.us or 503-229-5349. Current classifications for all systems requiring certified operators may be found at <https://www.oregon.gov/deg/wq/wqpermits/Pages/Wastewater-Operator-Certification.aspx>.

If you are interested in upgrading your wastewater treatment infrastructure or need assistance with treatment system design, DEQ's Clean Water State Revolving Fund offers below-market rate loans for qualified applicants to finance the planning, design

and construction of water quality improvement projects. DEQ updates interest rates are updated quarterly and rates vary by loan term, type of loan and community economic conditions. DEQ works with borrowers to ensure access to the best rates available at the time of loan signature. To learn more about eligible water quality projects and application process, please visit the [Clean Water State Revolving Fund website at https://www.oregon.gov/deq/wq/cwsrf/Pages/default.aspx](https://www.oregon.gov/deq/wq/cwsrf/Pages/default.aspx) or call 503-229-LOAN.

If you have any questions about your permit requirements, please contact david.feldman@deq.oregon.gov or 503-229-6850.

Sincerely,

Shannon Davis

Shannon Davis (Jun 23, 2022 15:20 PDT)

Shannon Davis
Water Quality Manager
Eastern Region

NPDES Issuance Letter20220623

Final Audit Report

2022-06-23

Created:	2022-06-23
By:	Patty Isaak (patty.isaak@deq.oregon.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAAqtUI9GGYnPnlto2mCjADzCTNII0mC_-w

"NPDES Issuance Letter20220623" History

-  Document created by Patty Isaak (patty.isaak@deq.oregon.gov)
2022-06-23 - 7:53:47 PM GMT
-  Document emailed to shannon.davis@deq.oregon.gov for signature
2022-06-23 - 7:54:29 PM GMT
-  Email viewed by shannon.davis@deq.oregon.gov
2022-06-23 - 7:54:36 PM GMT
-  Document e-signed by Shannon Davis (shannon.davis@deq.oregon.gov)
Signature Date: 2022-06-23 - 10:20:06 PM GMT - Time Source: server
-  Agreement completed.
2022-06-23 - 10:20:06 PM GMT



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WASTE DISCHARGE PERMIT

Oregon Department of Environmental Quality
 Eastern Region – Pendleton Office
 800 SE Emigrant, #330
 Pendleton, OR 97801
 Telephone: 541-276-4063

Issued pursuant to ORS 468B.050 and the federal Clean Water Act

ISSUED TO:

South Suburban Sanitary
 District
 2201 Laverne Avenue
 Klamath Falls, OR 97603

SOURCES COVERED BY THIS PERMIT:

Type of Waste	Outfall Number	Outfall Location
Treated Domestic Wastewater	001	42.2028, -121.7744
Recycled Water Reuse	002	Specified in Recycled Water Use Plan
Biosolids	N/A	

FACILITY LOCATION:

2980 Maywood Dr.
 Klamath Falls, OR 97603
 County: Klamath

RECEIVING STREAM INFORMATION:

WRD Basin: Klamath
 USGS Sub-Basin: Upper Klamath
 Receiving Stream name: Klamath River
 NHD Reach Code: 18010204011523 (86.2%)
 LLID: 1221913420005 – 251.66

EPA Permit Type: Major

DEQ-initiated major modification of Schedules A, B, C and D.

Shannon Davis

6/22/2022

8/1/2022

Shannon Davis,
 Eastern Region Administrator

Issuance Date

Effective Date

PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to: 1) operate a wastewater collection, treatment, control and disposal system; and 2) discharge treated wastewater to waters of the state only from the authorized discharge point or points in Schedule A in conformance with the requirements, limits, and conditions set forth in this permit.

Unless specifically authorized by this permit, by another NPDES or Water Pollution Control Facility permit, or by Oregon statute or administrative rule, any other direct or indirect discharge of pollutants to waters of the state is prohibited.

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SCHEDULE A: WASTE DISCHARGE LIMITS

Delete the existing Table A1 and replace it with the following table. (Deletions from existing table are indicated with red strikethrough text and additions are in red text.)

Table A1: Permit Limits

Parameter (Year-Round unless otherwise noted)	Units	Average Monthly	Average Weekly	Daily Maximum	Semiannual Average
BOD ₅ (Year-round)	mg/L	30	45	N/A	N/A
	lbs/day	500	750	1000	N/A
	% removal	65	N/A	N/A	N/A
BOD ₅ (May 15 – Oct. 15) (Final: See note c.)	lbs/day	N/A	N/A	N/A	251
BOD ₅ (Oct 16 – May 14) (Final: See note c.)	lbs/day	N/A	N/A	N/A	367
TSS (May 1 – October 31)	mg/L	85	130	N/A	N/A
	lbs/day	1400	2300	2800	N/A
	%	65	N/A	N/A	N/A
TSS (November 1 – April 30)	mg/L	85	130	N/A	N/A
	lbs/day	1400	2300	2800	N/A
	%	65	N/A	N/A	N/A
Chlorine, Total Residual (Interim; See notes a. and c.)	mg/L	0.5 N/A	N/A	1.0	N/A
Chlorine, Total Residual (Final; See notes a. and c.)	mg/L	0.010	N/A	0.015	N/A
Total Ammonia (as N) (Final: See note c.)	mg/L	0.7	N/A	1.7	N/A
pH	SU	Instantaneous limit between a daily minimum of 6.5 and a daily maximum of 9.0			N/A
<i>E. coli</i> (See note b.)	#/100 mL	Must not exceed a monthly geometric mean of 126, no single sample may exceed 406			N/A
Excess Thermal Load (Final: See note c.)	million kcal/day	Daily Calculated Thermal Load Limit (see notes e. and f.)			N/A
Temperature (June 1 to September 30)	°C	N/A	N/A	32	N/A
Temperature (October 1 to May 31) (See note d.)	°C	N/A	N/A	28	N/A
Total Recoverable Mercury (Final: See note c.)	µg/L	0.01	N/A	0.02	N/A
Phosphorus as P, Total (May 15 – Oct. 15) (Final: See note c.)	lbs/day	N/A	N/A	N/A	4.9

Parameter (Year-Round unless otherwise noted)	Units	Average Monthly	Average Weekly	Daily Maximum	Semiannual Average
Phosphorus as P, Total (Oct. 16 – May 14) (Final: see note c.)	lbs/day	N/A	N/A	N/A	36
Nitrogen as N, Total (May 15 – Oct. 15) (Final: see note c.)	lbs/day	N/A	N/A	N/A	318
Nitrogen as N, Total (Oct. 16 – May 14) (Final: see note c.)	lbs/day	N/A	N/A	N/A	448

Notes:

- a. DEQ has established minimum Quantitation Limits of 0.05 mg/L for Total Residual Chlorine. In cases where the average monthly or maximum daily limit for this parameter is lower than the relevant Quantitation Limit, DEQ will use the reported Quantitation Limit as the compliance evaluation level for the parameter.
- b. The permittee may take at least 5 consecutive re-samples at 4 hour intervals beginning within 28 hours after the original sample was taken and the geometric mean of the 5 re-samples is less than or equal to 126 *E. coli* organisms/100 mL to demonstrate compliance with the limit.
- c. The interim Total Residual Chlorine limits are effective upon permit issuance. The final limits for total recoverable chlorine, the semi-annual average limits for BOD₅, as well as the limits for total mercury, ammonia, nitrogen, phosphorus, and excess thermal load are effective after completion of the compliance schedule in Schedule C.
- d. The October 1 – May 31 maximum effluent temperature limit applies when daily maximum river temperatures are greater than 28° C.

- e. Use this equation to determine the daily ETL Limit for the June 1 – Sept. 30 period:

$$ETL = 0.05 \times [(Q_E \times 1.5472) + Q_R] \times 2.4467$$

Where,

ETL = Excess thermal load limit (million kilocalories/day).

Q_E = The daily mean effluent flow (MGD).

Q_R = The daily mean river flow rate, upstream (cfs). When river flow is ≤ 104 cfs, Q_R = 104 cfs. When river flow > 104 cfs, Q_R is equal to the mean daily river flow, upstream.

- f. Use this equation to determine the daily ETL Limit for the Oct. 1 – May 31 period:

$$ETL = 0.03 \times [(Q_E \times 1.5472) + Q_R] \times 2.4467$$

Where,

ETL = Excess thermal load limit (million kilocalories/day).

Q_E = The daily mean effluent flow (MGD).

Q_R = The daily mean river flow rate, upstream (cfs). When river flow is ≤ 104 cfs, Q_R = 104 cfs. When river flow > 104 cfs, Q_R is equal to the mean daily river flow, upstream.

Insert the following text and table at the end of Schedule A (additions to the existing permit are indicated with red text):

5. Biosolids

The permittee may land apply biosolids or provide biosolids for sale or distribution, subject to the following conditions:

- a. The permittee must manage biosolids in accordance with its DEQ-approved Biosolids Management Plan and Land Application Plan.
- b. The permittee must apply biosolids at or below the agronomic rates approved by DEQ in order to minimize potential groundwater degradation.
- c. The permittee must obtain written site authorization from DEQ for each land application site prior to land application (see Schedule D) and follow the site-specific management conditions in the DEQ-issued site authorization letter.
- d. Prior to application, the permittee must ensure that biosolids meet one of the pathogen reduction standards under 40 CFR 503.32 and one of the vector attraction reduction standards under 40 CFR 503.33.
- e. The permittee must not apply biosolids containing pollutants in excess of the ceiling concentrations shown in the table below. The permittee may apply biosolids containing pollutants in excess of the pollutant concentrations, but below the ceiling concentrations, however, the total quantity of biosolids applied cannot exceed the cumulative pollutant loading rates in the table below.

Table A3: Biosolids Limits

Pollutant (See note a.)	Ceiling concentrations (mg/kg)	Pollutant concentrations (mg/kg)	Cumulative pollutant loading rates (kg/ha)
Arsenic	75	41	41
Cadmium	85	39	39
Copper	4300	1500	1500
Lead	840	300	300
Mercury	57	17	17
Molybdenum	75	–	–
Nickel	420	420	420
Selenium	100	100	100
Zinc	7500	2800	2800

Note:

- a. Biosolids pollutant limits are described in 40 CFR 503.13, which uses the terms *ceiling concentrations*, *pollutant concentrations*, and *cumulative pollutant loading rates*.

SCHEDULE B: MINIMUM MONITORING AND REPORTING REQUIREMENTS

Delete Table B1 in the current permit and replace it with the following table. (Deletions from existing table are indicated with red strikethrough text and additions are in red text).

Table B1: Reporting Requirements and Due Dates

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To:
Tables B2, B3, and B4 Influent Monitoring, Effluent Monitoring, and receiving stream monitoring	Monthly	By the 15th of the following month	Specified in Schedule B. Section 2 of this permit	Electronic reporting as directed by DEQ
Tables B6 – B9: Effluent Toxics Characterization	Quarterly, for 4 quarters, beginning in January 2023 (See note d.)	By the 15 th of the month following each quarter	Electronic copy in a DEQ- approved format	Attached via electronic reporting as directed by DEQ
Table B10: WET Test Monitoring	Semiannually, beginning in January 2023 (See note c.)	With the first DMR submittal after receipt of the test results	Electronic copy in a DEQ- approved format	Attached via electronic reporting as directed by DEQ
Table B5: Copper Biotic Ligand Model and Aluminum Sampling Requirements	Monthly, beginning in January 2023 (See note d.) for 17 months, then annually	By the 15th of the following month	Electronic copy in a DEQ- approved format	Attached via electronic reporting as directed by DEQ
Recycled Water Annual Report (see Schedule D)	Annually	January 15	Electronic copy in the DEQ- approved format	Attached via electronic reporting as directed by DEQ Electronic copy to DEQ Water Reuse Program Coordinator
Wastewater Solids Annual Report (see Schedule D)	Annually	February 19	Electronic copy in the DEQ- approved format	Attached via electronic reporting as directed by DEQ Electronic copy to DEQ Biosolids Program Coordinator

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To:
Biosolids annual report (See Schedule D)	Annually	February 19	Electronic copy in the DEQ-approved form	Attached via electronic reporting as directed by DEQ DEQ Biosolids Program Coordinator
Sludge Depth Survey Report (See Schedule D – Lagoon Solids)	One Time	Submit by 12/15/2021	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Inflow and Infiltration report (see Schedule D)	Annually	February 15	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Hauled Waste Control Plan (see Schedule D)	One time	Submit by 2/15/2022	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Hauled Waste Annual Report (see Schedule D)	Annually	January 15	Electronic copy in the DEQ-approved format	Attached via electronic reporting as directed by DEQ
Industrial User Survey (see Schedule D)	Every 5 years	Submit by no later than 24 months after permit effective date	1 electronic copy and 1 hard copy in a DEQ-approved format	<ul style="list-style-type: none"> • 1 Hard copy to DEQ Pretreatment Coordinator • 1 Electronic copy to Compliance Officer
Outfall Inspection Report (see Schedule D)	One time	Submit by 12/15/2024	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Mercury Minimization Plan (see Schedule A)	One time	Submit by 12/15/2022	One electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To:
Notes:				
a. For submittals that are provided to DEQ by mail, the postmarked date must not be later than the due date.				
b. All reporting requirements are to be submitted in a DEQ-approved format, unless otherwise specified in writing.				
c. Each test must be conducted during a different quarter each year (e.g., Year 1, Qtr. 1). When possible, conduct the first WET testing concurrent with Effluent Toxics Characterization Monitoring in the third year of the permit term. Afterwards all WET testing will be continued semiannually if the Preliminary Design Report (due December 1, 2022) demonstrates that the permittee’s chosen alternative is to cease discharging to the Klamath River. All tests must be completed prior to submission of renewal application.				
d. Monitoring and reporting requirements can be eliminated if the Preliminary Design Report (due December 1, 2022) demonstrates that the permittee’s chosen alternative is to cease discharging to the Klamath River.				

Add in the following tables and monitoring requirements to the end of Schedule B of the permit (additions to the existing permit are indicated with red text):

9. Biosolids Monitoring Requirements

The permittee must monitor biosolids land applied or produced for sale or distribution as listed below. The samples must be representative of the quality and quantity of biosolids generated and undergo the same treatment process used to prepare the biosolids. Results must be reported as required in the biosolids management plan described in Schedule D.

Table B12: Biosolids Monitoring

Item or Parameter	Minimum Frequency	Sample Type
Nutrient and conventional parameters (% dry weight unless otherwise specified): Total Kjeldahl Nitrogen (TKN) Nitrate-Nitrogen (NO ₃ -N) Total Ammoniacal Nitrogen (NH-N) Total Phosphorus (P) Potassium (K) pH (S.U.) Total Solids Volatile Solids	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B13.	As described in the DEQ-approved Biosolids Management Plan
Pollutants: As, Cd, Cu, Hg, Pb, Mo, Ni, Se, Zn, mg/kg dry weight	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B13.	As described in the DEQ-approved Biosolids Management Plan
Pathogen reduction	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B13.	As described in the DEQ-approved Biosolids Management Plan
Vector attraction reduction	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B13.	As described in the DEQ-approved Biosolids Management Plan

Item or Parameter	Minimum Frequency	Sample Type
Record of biosolids land application: date, quantity, location.	Each event	Record the date, quantity, and location of biosolids land applied on site location map or equivalent electronic system, such as GIS.

Table B13: Biosolids Minimum Monitoring Frequency

Quantity of biosolids land applied or produced for sale or distribution per calendar year		Minimum Sampling Frequency
(dry metric tons)	(dry U.S. tons)	
Less than 290	Less than 320	Once per year
290 to 1,500	320 to 1,653	Once per quarter (4x/year)
1500 to 15,000	1,653 to 16,535	Once per 60 days (6x/year)
15,000 or more	16,535 or more	Once per month (12x/year)

SCHEDULE C: COMPLIANCE SCHEDULE

Delete the table in Schedule C of the current permit and replace it with the following table. (Deletions from existing table are indicated with red strikethrough text and additions are in red text).

Complete By	Requirement
February 1, 2021	The permittee must submit to DEQ for review and approval: <ol style="list-style-type: none"> 1. An evaluation of the existing chlorination system and the ability to better control dosing to meet the interim and final Total Residual Chlorine permit limits, and 2. A plan and schedule for implementing chlorination system upgrades.
April August 1, 2021 2022	The permittee must submit a Wastewater Facilities Plan to DEQ for review and approval that includes the improvements to either meet the limits or ceasing the discharge to the Klamath River
December April 1, 2022	The permittee must submit a Preliminary Design Report for either meeting the limits or ceasing discharge and removing the outfall to DEQ for review and approval.
August December 1, 2022 2023	The permittee must secure financing for improvements to either meet the limits or cease discharge and removing the outfall.
August December 1, 2023 2024	The permittee must submit final design plans that address all DEQ's previous comments for either meeting the limits or ceasing discharge to DEQ for approval.
October February 1, 2025	The permittee must submit a status report to DEQ outlining the progress made toward completion of the improvements.
Annually by January 15 th , until completion of this compliance schedule.	The permittee must submit a status report to DEQ outlining the progress made toward completion of the improvements.
October February 1, 2026	The permittee will complete all improvements and achieve compliance with all the final effluent limits in Schedule A of the permit (by either meeting the limits or ceasing discharge to the Klamath River).

SCHEDULE D: SPECIAL CONDITIONS

Delete all of the conditions in this schedule and replace with the conditions below. (Deletions from the current permit are in red strikeout and additions are in red text).

1. Inflow Removal

- a. By the date listed in Table B1, the permittee must submit to DEQ for approval an Inflow Removal Program. The program must consist of the following:
 - i. Identification of all overflow points.
 - ii. Verification that sewer system overflows are not occurring up to a 24-hour, 5-year storm event or equivalent.
 - iii. Monitoring of all pump station overflow points.
 - iv. A process for identifying and removing all inflow sources into the permittee's sewer system over which the permittee has legal control, including a time schedule for identifying and reducing inflow.
 - v. If the permittee does not have the necessary legal authority for all portions of the sewer system or treatment facility, a strategy and schedule for gaining legal authority to require inflow reduction and a process and schedule for identifying and removing inflow sources once legal authority has been obtained.
- b. Within 60 days of receiving written DEQ comments, the permittee must submit a final approvable program and time schedule.
- c. A copy of the program must be kept at the wastewater treatment facility for review upon request by DEQ.
- d. An annual inflow and infiltration report must be submitted to the DEQ as directed in Schedule B. The report must include the following:
 - i. Details of activities performed in the previous year to identify and reduce inflow and infiltration.
 - ii. Details of activities planned for the following year to identify and reduce inflow and infiltration.
 - iii. A summary of sanitary sewer overflows that occurred during the previous year.
 - iv. Information that demonstrates compliance with the DEQ-approved Inflow Removal Plan required by condition 1.a above.

2. Emergency Response and Public Notification Plan

The permittee must develop an Emergency Response and Public Notification Plan ("plan"), or ensure the facility's existing plan is current and accurate, per Schedule F, Section B, and Condition 8 within 6 months of permit effective date. The permittee must update the plan annually to ensure all information contained in the plan, including telephone and email contact information for applicable public agencies, is current and accurate. An updated copy of the plan must be kept on file at the facility for DEQ review. The latest plan revision date must be listed on the plan cover along with the reviewer's initials or signature.

3. Recycled Water Use Plan

In order to distribute recycled water, the permittee must develop and maintain a DEQ-approved Recycled Water Use Plan meeting the requirements in OAR 340-055-0025. The permittee must submit this plan or any significant modifications to DEQ for review and approval with sufficient time to clear DEQ review and a public notice period prior to distribution of recycled water. The permittee is prohibited from distributing recycled water prior to receipt of written approval of its Recycled Water Use Plan from DEQ. The permittee must keep the plan updated. All plan revisions require written authorization from DEQ and are effective upon permittee's receipt of DEQ written approval. No significant modifications can be made to a plan for an administratively extended permit (after the permit expiration date). Conditions in the plan are enforceable requirements under this permit. DEQ will provide an opportunity for public review and comment on any significant plan modifications prior to approving or denying. Public review is not required for minor modifications, changes to utilization dates or changes in use within the recycled water class.

After the plan is approved by DEQ, the permittee must maintain the Recycled Water Use Plan meeting the requirements in OAR 340-055-0025. The permittee must submit this plan or any significant modifications to DEQ for review and approval with sufficient time to clear DEQ review and a public notice period prior to implementing changes to the recycled water program. The permittee must keep the plan updated. All plan revisions require written authorization from DEQ and are effective upon permittee's receipt of DEQ written approval. No significant modifications can be made to a plan for an administratively extended permit (after the permit expiration date). Conditions in the plan are enforceable requirements under this permit. DEQ will provide an opportunity for public review and comment on any significant plan modifications prior to approving or denying. Public review is not required for minor modifications, changes to utilization dates or changes in use within the recycled water class.

- a. Recycled Water Annual Report – The permittee must submit a recycled water annual report by the date specified in Table B1: Reporting Requirements and Due Dates. The permittee must use the DEQ-approved recycled water annual report form. This report must include the monitoring data and analytical laboratory reports for the previous year's monitoring required under Schedule B.

4. Exempt Wastewater Reuse at the Treatment System

Recycled water used for landscape irrigation within the property boundary or in-plant processes at the wastewater treatment system is exempt from the requirements of OAR 340-055 if all of the following conditions are met:

- a. The recycled water is an oxidized and disinfected wastewater.
- b. The recycled water is used at the wastewater treatment system site where it is generated or at an auxiliary wastewater or sludge treatment facility that is subject to the same NPDES or WPCF permit as the wastewater treatment system. Land that is contiguous to the property upon which the treatment system is located is considered to be part of the wastewater treatment system site if under the same ownership.
- c. Spray and/or drift from the use does not migrate off the site.
- d. Public access to the site is restricted.

~~5. Wastewater Solids Annual Report~~

~~The permittee must submit a Wastewater Solids Annual Report by February 19 each year documenting removal of wastewater solids from the facility during the previous calendar year. The permittee must use the DEQ approved wastewater solids annual report form. This report must include the volume of material removed and the name of the permitted facility that received the solids.~~

6.5. Biosolids Management Plan

Prior to distributing biosolids to the public, the permittee must develop and maintain a Biosolids Management Plan and Land Application Plan meeting the requirements in OAR 340-050-0031. The permittee must submit these plans and any significant modification of these plans to DEQ for review and approval with sufficient time to clear DEQ review and a public notice period prior to removing biosolids from the facility. The permittee must keep the plans updated. All plan revisions require written authorization from DEQ and are effective upon permittee's receipt of DEQ written approval. No significant modifications can be made to a plan for an administratively extended permit (after the permit expiration date). Conditions in the plans are enforceable requirements under this permit.

a. Annual Report

~~The permittee must submit a Biosolids Annual Report by February 19 each year documenting biosolids management activities of the previous calendar year as described in OAR 340-050-0035(6). The permittee must use the DEQ approved Biosolids Annual report form. This report must include the monitoring data and analytical laboratory reports for the previous year's monitoring specified under Schedule B.~~

b. Site Authorization

~~The permittee must obtain written authorization from DEQ for each land application site prior to its use. Conditions in site authorizations are enforceable requirements under this permit. The permittee is prohibited from land applying biosolids to a DEQ-approved site except in accordance with the site authorization, while this permit is effective and with the written approval of the property owner. DEQ may modify or revoke a site authorization following the procedures for a permit modification described in OAR 340-045-0055.~~

c. Public Participation

- ~~i. DEQ will provide an opportunity for public review and comment on any significant plan modifications prior to approving or denying. Public review is not required for minor modifications or changes to utilization dates.~~
- ~~ii. No DEQ-initiated public notice is required for continued use of sites identified in the DEQ-approved biosolids management plan.~~
- ~~iii. For new sites that fail to meet the site selection criteria in the biosolids management plan or that are deemed by DEQ to be sensitive with respect to residential housing, runoff potential, or threat to groundwater, DEQ will provide an opportunity for public comment as directed by OAR 340-050-0015(10).~~
- ~~iv. For all other new sites, the permittee must provide for public participation following procedures in its DEQ-approved land application plan.~~

d. Exceptional Quality Biosolids

~~The permittee is exempt from the requirements in condition 5.b. above, if:~~

- ~~i. Pollutant concentrations of biosolids are less than the pollutant concentration limits in Schedule A, Table A3;~~

- ii. Biosolids meet one of the Class A pathogen reduction alternatives in 40 CFR 503.32(a); and
- iii. Biosolids meet one of the vector attraction reduction options in 40 CFR 503.33(b)(1) through (8).

7.6. Wastewater Solids Transfers

- a. *Within state.* The permittee may transfer wastewater solids including Class A and Class B biosolids, to another facility permitted to process or dispose of wastewater solids, including but not limited to: another wastewater treatment facility, landfill, or incinerator. The permittee must satisfy the requirements of the receiving facility. The permittee must report the name of the receiving facility and the quantity of material transferred in the wastewater solids annual report identified in Schedule B.
- b. *Out of state.* If wastewater solids, including Class A and Class B biosolids, are transferred out of state for use or disposal, the permittee must obtain written authorization from DEQ, meet Oregon requirements for the use or disposal of wastewater solids, notify in writing the receiving state of the proposed use or disposal of wastewater solids, and satisfy the requirements of the receiving state.

8.7. Hauled Waste Control Plan

The permittee may accept hauled wastes at discharge points designated by the POTW. The permittee must submit a written Hauled Waste Control Plan by the date listed in Table B1. Within 60 days of receiving DEQ comments, the permittee must submit hauled waste control plan revised to be consistent with DEQ's comments. Hauled wastes may include wastewater solids from another wastewater treatment facility, septage, grease trap wastes, portable and chemical toilet wastes, landfill leachate, groundwater remediation wastewaters and commercial/industrial wastewaters. The permittee must keep the plan updated and submit substantial modifications to an existing plan to DEQ for approval at least 60 days prior to making the proposed changes. Plan modifications are effective upon receipt of written DEQ approval.

9.8. Hauled Waste Annual Report

By the date listed in Table B1, the permittee must submit a report of hauled waste received by the POTW. This report must include the date, time, type, and amount received each time the POTW accepts hauled waste. Hauled waste is described in the permittee's Hauled Waste Control Plan.

40.9. Lagoon Solids

By the date listed in Table B1, the permittee must submit to DEQ a sludge depth survey report. The report must include a comparison of the design sludge depth to the actual sludge depth. If the actual sludge depth exceeds the design sludge depth, the permittee must submit a plan to reduce or remove the sludge. Prior to the removal of accumulated solids from the lagoon, the permittee must submit to DEQ a biosolids management plan as required in conditions 65 and 76 respectively. The permittee must follow the conditions in the approved plan.

44.10. Whole Effluent Toxicity Testing for Freshwater

- a. The permittee must conduct whole effluent toxicity (WET) tests as specified here and in Schedule B of this permit.
- b. Acute Toxicity Testing - Organisms and Protocols
 - i. The permittee must conduct 48-hour static renewal tests with *Ceriodaphnia dubia* (water flea) and 96-hour static renewal tests with *Pimephales promelas* (fathead minnow).
 - ii. All test methods and procedures must be in accordance with *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition, EPA-821-R-02-012, October 2002*, or the most recent version of this publication if such edition is available. If the permittee wants to deviate from the bioassay procedures outlined in this method, the permittee must submit a written request to DEQ for review and approval prior to use.
 - iii. Treatments to the final effluent samples (for example, dechlorination, ammonia removal), except those included as part of the methodology, may not be performed by the laboratory unless approved by DEQ in writing prior to analysis.
 - iv. WET acute testing must be conducted using a dilution series based upon the effluent percentage at the ZID (EPZID) in the following manner: 100%; 50%; 25%; 12.5%, 6.25%; and a control (0% effluent).
 - v. An acute WET test shows toxicity if there is a statistically significant difference in survival between the control and 100% effluent reported as the NOEC < 100% effluent.
- c. Chronic Toxicity Testing - Organisms and Protocols
 - i. The permittee must conduct tests with *Ceriodaphnia dubia* (water flea) for reproduction and survival test endpoint, *Pimephales promelas* (fathead minnow) for growth and survival test endpoint, and *Raphidocelis subcapitata* (green alga formerly known as *Selenastrum capricornutum*) for growth test endpoint.
 - ii. All test methods and procedures must be in accordance with *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition, EPA-821-R-02-013, October 2002*, or the most recent version of that document. If the permittee wants to deviate from the bioassay procedures outlined in the applicable method, the permittee must submit a written request to DEQ for review and approval prior to use.
 - iii. Treatments to the final effluent samples (for example, dechlorination, ammonia removal), except those included as part of the methodology, may not be performed by the laboratory unless approved by DEQ in writing prior to analysis.

- iv. WET chronic testing must be conducted using a dilution series based upon the effluent in the following manner: 100% effluent; 55%; 10%; 5%; 2.5% and a control (0% effluent).
 - v. A chronic WET test shows toxicity if the IC25 (25% inhibition concentration) occurs at dilutions equal to or less than the dilution that is known to occur at the edge of the mixing zone, that is, $IC_{25} \leq 100\%$.
- d. Dual End-Point Tests
- i. WET tests may be dual end-point tests in which both acute and chronic end-points can be determined from the results of a single chronic test. The acute end-point will be based on 48-hours for the *Ceriodaphnia dubia* (water flea) and 96-hours for the *Pimephales promelas* (fathead minnow).
 - ii. All test methods and procedures must be in accordance with *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition, EPA-821-R-02-013, October 2002*. If the permittee wants to deviate from the bioassay procedures outlined in this method, the permittee must submit a written request to DEQ for review and approval prior to use.
 - iii. Tests run as dual end-point tests must be conducted on a control (0%) and the following dilution series: 6.25%, 12.5%, 25%, 50%, and 100% effluent.
 - iv. Toxicity determinations for dual end-point tests must correspond to the acute and chronic tests described in conditions 102.b.v. and 102.c.v. above.
- e. Sampling Requirements
- At the time of WET sampling, the permittee must collect and analyze effluent samples for Total Recoverable Silver, Free Cyanide, and Total Ammonia.
- f. Evaluation of Causes and Exceedances
- i. If any test exhibits toxicity as described in conditions 102.b.v. and 102.c.v. above, the permittee must conduct another toxicity test using the same species and DEQ-approved methodology within two weeks unless an extension is granted by DEQ in writing.
 - ii. If two consecutive WET test results indicate acute or chronic toxicity as described in conditions 102.b.v. and 102.c.v. above, the permittee must immediately notify DEQ of the results. DEQ will work with the permittee to determine the appropriate course of action to evaluate and address the toxicity.
- g. Quality Assurance and Reporting
- i. Quality assurance criteria, statistical analyses, and data reporting for the WET tests must be in accordance with the EPA documents stated in this condition.
 - ii. For each test, the permittee must provide a bioassay laboratory report according to the EPA method documents referenced in this Schedule. The report must include all QA/QC documentation, statistical analysis for each test performed, standard reference toxicant test (SRT) conducted on each species required for the toxicity tests, and completed Chain of Custody forms for the samples including time of sample collection and receipt. The permittee must submit reports to DEQ within 60 days of test completion.

- iii. The report must include all endpoints measured in the test: NOEC (No Observed Effects Concentration), LOEC (Lowest Observed Effects Concentration), and IC₂₅ (chronic effect 25% inhibition concentration).
 - iv. The permittee must make available to DEQ upon request the written standard operating procedures they, or the laboratory performing the WET tests, use for all toxicity tests required by DEQ.
- h. Reopener
- DEQ may reopen and modify this permit to include new limits, monitoring requirements, and/or conditions as determined by DEQ to be appropriate, and in accordance with procedures outlined in OAR Chapter 340, Division 45 if:
- i. WET testing data indicate acute and/or chronic toxicity.
 - ii. The facility undergoes any process changes.
 - iii. Discharge monitoring data indicate a change in the reasonable potential to cause or contribute to an exceedance of a water quality standard.
- i. Circumstances not addressed in this section, or that require deviation from the requirements of this section, must be approved in writing by DEQ before changes are implemented.

12-11. Operator Certification

- a. Definitions
- i. “Supervise” means to have full and active responsibility for the daily on site technical operation of a wastewater treatment system or wastewater collection system.
 - ii. “Supervisor” or “designated operator”, means the operator delegated authority by the permittee for establishing and executing the specific practice and procedures for operating the wastewater treatment system or wastewater collection system in accordance with the policies of the owner of the system and any permit requirements.
 - iii. “Shift Supervisor” means the operator delegated authority by the permittee for executing the specific practice and procedures for operating the wastewater treatment system or wastewater collection system when the system is operated on more than one daily shift.
 - iv. “System” includes both the collection system and the treatment systems.
- b. The permittee must comply with OAR Chapter 340, Division 49, “Regulations Pertaining to Certification of Wastewater System Operator Personnel” and designate a supervisor whose certification corresponds with the classification of the collection and/or treatment system as specified on the Wastewater System Classification Worksheet in the fact sheet for this permit (including renewals and modifications). DEQ may revise the permittee’s classification in writing at any time to reflect changes in the collection or treatment system. This reclassification is not considered a permit modification and may be made after the permit expiration date provided the permit has been administratively extended by DEQ. If a facility is re-classified, a certified letter will be mailed to the system owner from the DEQ Operator Certification Program. Current

system classifications are publicized on the DEQ Supervisory Wastewater Operator Status Report found on the [DEQ Wastewater Operator Certification Homepage](#).

- c. The permittee must have its system supervised full-time by one or more operators who hold a valid certificate for the type of wastewater treatment or wastewater collection system, and at a grade equal to or greater than the wastewater system's classification.
- d. The permittee's wastewater system may be without the designated supervisor for up to 30 consecutive days if another person who is certified at no more than one grade lower than the classification of the wastewater system supervises. The permittee must delegate authority to this operator to supervise the operation of the system.
- e. If the wastewater system has more than one daily shift, the permittee must have another properly certified operator available to supervise operation of the system. Each shift supervisor must be certified at no more than one grade lower than the system classification.
- f. The permittee is not required to have a supervisor on site at all times; however, the supervisor must be available to the permittee and operator at all times.
- g. The permittee must notify DEQ in writing of the name of the system supervisor by completing and submitting the Supervisory Wastewater System Operator Designation Form along with the Delegated Authority form. The most recent version of this form may be found on the [DEQ Wastewater Operator Certification homepage](#) *NOTE: This form is different from the Delegated Authority form. The permittee may replace or re-designate the system supervisor with another properly certified operator at any time and must notify DEQ in writing within 30 days of replacement or re-designation of the operator in charge. As of this writing, the notice of replacement or re-designation must be sent to Water Quality Division, Operator Certification Program, 700 NE Multnomah St, Suite 600, Portland, OR 97232-4100. This address may be updated in writing by DEQ during the term of this permit.
- h. When compliance with item (e) of this section is not possible or practicable because the system supervisor is not available or the position is vacated unexpectedly, and another certified operator is not qualified to assume supervisory responsibility, the Director may grant a time extension for compliance with the requirements in response to a written request from the system owner. The Director will not grant an extension longer than 120 days unless the system owner documents the existence of extraordinary circumstances.

13.12. Industrial User Survey

- a. By the date listed in Table B1, the permittee must conduct an industrial user survey as described in 40CFR 403.8(f)(2)(i-iii) to determine the presence of any industrial users discharging wastewaters subject to pretreatment and submit a report on the findings to DEQ. The purpose of the survey is to identify whether there are any industrial users discharging to the POTW, and ensure regulatory oversight of these discharges to state waters.
- b. Should the DEQ determine that a pretreatment program is required, the permit must be reopened and modified in accordance with 40 CFR 403.8(e)(1) to incorporate a compliance schedule for development of a pretreatment program. The compliance schedule must be developed in accordance with the provisions of 40 CFR 403.12(k), and must not exceed twelve (12) months.

44.13. Outfall Inspection

By the date in Table B1, the permittee must visually inspect Outfall 001 to document its integrity and to determine whether it is functioning as designed. The inspection must verify the latitude and longitude of the diffuser. The permittee must submit a written report to DEQ regarding the results of the outfall inspection by the date in Table B1. The report must include a description of the outfall as originally constructed, photographs of the outfall, and the condition of the current outfall and identify any repairs needed to return the outfall to satisfactory condition.



Permit Fact Sheet (Modification #2)

Oregon Department of Environmental Quality
Northwest Region Office
700 NE Multnomah Street, Suite 600
Portland OR 97232

Contact: David Feldman

Permittee:	South Suburban Sanitary District 2201 Laverne Avenue Klamath Falls, OR 97603
Existing Permit Information:	File Number: 83316 Permit Number: 100700 Expiration Date: 08/31/2025 EPA Reference Number: OR0023876
Source Contact:	Brett Blofsky; 541-882-5744 District Manager
Facility Location:	2980 Maywood Dr. Klamath Falls, OR 97603 Klamath County
LLID:	1221913420005 – RM 251.66
NHD:	18010204011525 – 86.2%
Receiving Stream/Basin:	Klamath River
WRD Basin:	Klamath
USGS Subbasin:	Lost
Proposed Action:	Permit Modification
Source Category:	NPDES Major– Domestic
Sources Covered:	Treated Domestic Wastewater
Permit Type:	NPDES-DOM-C1b
Permit Writer:	David Feldman Senior Permit Writer June 2022

Table of Contents

Major Modification 2021

1.0 Proposed Revisions to Permit 3

1.0 Proposed Revisions to Permit

The proposed permit contains the following changes from the current permit:

DEQ is proposing to remove the interim chlorine monthly average limit from Table A1 and add Biosolids requirements to Schedules A, B, and D of the permit. Schedule C, the compliance schedule, has also been modified. These modifications are discussed below.

Interim Chlorine Limit

DEQ has obtained new information showing that the treatment plant cannot consistently meet the interim monthly average chlorine limit. DEQ is proposing to remove this interim chlorine limit based on this updated information. The interim chlorine limit is considered a technology based effluent limit because it is based on the capabilities of the treatment plant. Removal of this limit is justified because DEQ has new information indicating that the treatment cannot meet the existing interim limit. Establishing a less stringent limit based on new information is one of the exceptions to backsliding. DEQ is proposing to maintain the existing daily maximum chlorine limit.

Schedule A – The following changes to the effluent limits are noted below (deletions from the current permit are noted in red strikeout, and additions are noted in red):

Table A1: Permit Limits

Parameter (Year-Round unless otherwise noted)	Units	Average Monthly	Average Weekly	Daily Maximum	Semiannual Average
BOD ₅ (Year-round)	mg/L	30	45	N/A	N/A
	lbs/day	500	750	1000	N/A
	% removal	65	N/A	N/A	N/A
BOD ₅ (May 15 – Oct. 15) (Final: See note c.)	lbs/day	N/A	N/A	N/A	251
BOD ₅ (Oct 16 – May 14) (Final: See note c.)	lbs/day	N/A	N/A	N/A	367
TSS (May 1 – October 31)	mg/L	85	130	N/A	N/A
	lbs/day	1400	2300	2800	N/A
	%	65	N/A	N/A	N/A
TSS (November 1 – April 30)	mg/L	85	130	N/A	N/A
	lbs/day	1400	2300	2800	N/A
	%	65	N/A	N/A	N/A
Chlorine, Total Residual (Interim; See notes a. and c.)	mg/L	0.5 N/A	N/A	1.0	N/A
Chlorine, Total Residual (Final; See notes a. and c.)	mg/L	0.010	N/A	0.015	N/A
Total Ammonia (as N) (Final: See note c.)	mg/L	0.7	N/A	1.7	N/A

Parameter (Year-Round unless otherwise noted)	Units	Average Monthly	Average Weekly	Daily Maximum	Semiannual Average
pH	SU	Instantaneous limit between a daily minimum of 6.5 and a daily maximum of 9.0			N/A
<i>E. coli</i> (See note b.)	#/100 mL	Must not exceed a monthly geometric mean of 126, no single sample may exceed 406			N/A
Excess Thermal Load (Final: See note c.)	million kcal/day	Daily Calculated Thermal Load Limit (See notes e. and f.)			N/A
Temperature (June 1 to September 30)	°C	N/A	N/A	32	N/A
Temperature (October 1 to May 31) (See note d.)	°C	N/A	N/A	28	N/A
Total Recoverable Mercury (Final: See note c.)	µg/L	0.01	N/A	0.02	N/A
Phosphorus as P, Total (May 15 – Oct. 15) (Final: See note c.)	lbs/day	N/A	N/A	N/A	4.9
Phosphorus as P, Total (Oct. 16 – May 14) (Final: See note c.)	lbs/day	N/A	N/A	N/A	36
Nitrogen as N, Total (May 15 – Oct. 15) (Final: See note c.)	lbs/day	N/A	N/A	N/A	318
Nitrogen as N, Total (Oct. 16 – May 14) (Final: See note c.)	lbs/day	N/A	N/A	N/A	448

Notes:

- DEQ has established minimum Quantitation Limits of 0.05 mg/L for Total Residual Chlorine. In cases where the average monthly or maximum daily limit for this parameter is lower than the relevant Quantitation Limit, DEQ will use the reported Quantitation Limit as the compliance evaluation level for the parameter.
- The permittee may take at least 5 consecutive re-samples at 4 hour intervals beginning within 28 hours after the original sample was taken and the geometric mean of the 5 re-samples is less than or equal to 126 *E. coli* organisms/100 mL to demonstrate compliance with the limit.
- The interim Total Residual Chlorine limits are effective upon permit issuance. The final limits for total recoverable chlorine, the semi-annual average limits for BOD₅, as well as the limits for total mercury, ammonia, nitrogen, phosphorus and excess thermal load are effective after completion of the compliance schedule in Schedule C.
- The October 1 – May 31 maximum effluent temperature limit applies when daily maximum river temperatures are greater than 28° C.
- Use this equation to determine the daily ETL Limit for the June 1 – Sept. 30 period:

$$ETL = 0.05 \times [(Q_E \times 1.5472) + Q_R] \times 2.4467$$

Parameter (Year-Round unless otherwise noted)	Units	Average Monthly	Average Weekly	Daily Maximum	Semiannual Average
<p>Where,</p> <p>ETL = Excess thermal load limit (million kilocalories/day). Q_E = The daily mean effluent flow (MGD). Q_R = The daily mean river flow rate, upstream (cfs). When river flow is ≤ 104 cfs, $Q_R = 104$ cfs. When river flow > 104 cfs, Q_R is equal to the mean daily river flow, upstream.</p> <p>f. Use this equation to determine the daily ETL Limit for the Oct. 1 – May 31 period:</p> $ETL = 0.03 \times [(Q_E \times 1.5472) + Q_R] \times 2.4467$ <p>Where,</p> <p>ETL = Excess thermal load limit (million kilocalories/day). Q_E = The daily mean effluent flow (MGD). Q_R = The daily mean river flow rate, upstream (cfs). When river flow is ≤ 104 cfs, $Q_R = 104$ cfs. When river flow > 104 cfs, Q_R is equal to the mean daily river flow, upstream.</p>					

Biosolids Requirements

The facility has now determined that biosolids may be removed from the lagoons during the current permit cycle. DEQ has initiated this modification to address these issues.

Schedule A: The following biosolids limits and requirements were added to the permit (additions to the current permit are noted in red):

5. Biosolids

The permittee may land apply biosolids or provide biosolids for sale or distribution, subject to the following conditions:

- a. The permittee must manage biosolids in accordance with its DEQ-approved Biosolids Management Plan and Land Application Plan.
- b. The permittee must apply biosolids at or below the agronomic rates approved by DEQ in order to minimize potential groundwater degradation.
- c. The permittee must obtain written site authorization from DEQ for each land application site prior to land application (see Schedule D) and follow the site-specific management conditions in the DEQ-issued site authorization letter.
- d. Prior to application, the permittee must ensure that biosolids meet one of the pathogen reduction standards under 40 CFR 503.32 and one of the vector attraction reduction standards under 40 CFR 503.33.
- e. The permittee must not apply biosolids containing pollutants in excess of the ceiling concentrations shown in the table below. The permittee may apply biosolids containing pollutants in excess of the pollutant concentrations, but below the ceiling concentrations, however, the total quantity of biosolids applied cannot exceed the cumulative pollutant loading rates in the table below.

Table A3: Biosolids Limits

Pollutant See note a.	Ceiling concentrations (mg/kg)	Pollutant concentrations (mg/kg)	Cumulative pollutant loading rates (kg/ha)
Arsenic	75	41	41
Cadmium	85	39	39
Copper	4300	1500	1500
Lead	840	300	300
Mercury	57	17	17
Molybdenum	75	–	–
Nickel	420	420	420
Selenium	100	100	100
Zinc	7500	2800	2800
Note:			
a. Biosolids pollutant limits are described in 40 CFR 503.13, which uses the terms <i>ceiling concentrations</i> , <i>pollutant concentrations</i> , and <i>cumulative pollutant loading rates</i> .			

Schedule B: The following edits were made to Schedule B of the permit (deletions from the current permit are noted in red strikeout, and additions are noted in red):

Table B1: Reporting Requirements and Due Dates

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To:
Tables B2, B3, and B4 Influent Monitoring, Effluent Monitoring, and receiving stream monitoring	Monthly	By the 15th of the following month	Specified in Schedule B. Section 2 of this permit	Electronic reporting as directed by DEQ
Tables B6 – B9: Effluent Toxics Characterization	Quarterly, for 4 quarters, beginning in January 2023 (See note d.)	By the 15 th of the month following each quarter	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Table B10: WET Test Monitoring	Semiannually, beginning in January 2023 (See note c.)	With the first DMR submittal after receipt of the test results	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To:
Table B5: Copper Biotic Ligand Model and Aluminum Sampling Requirements	Monthly, beginning in January 2023 (See note d.) for 17 months, then annually	By the 15th of the following month	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Recycled Water Annual Report (See Schedule D)	Annually	January 15	Electronic copy in the DEQ-approved format	Attached via electronic reporting as directed by DEQ Electronic copy to DEQ Water Reuse Program Coordinator
Wastewater Solids Annual Report (see Schedule D)	Annually	February 19	Electronic copy in the DEQ-approved format	Attached via electronic reporting as directed by DEQ Electronic copy to DEQ Biosolids Program Coordinator
Biosolids annual report (See Schedule D)	Annually	February 19	Electronic copy in the DEQ-approved form	Attached via electronic reporting as directed by DEQ DEQ Biosolids Program Coordinator
Sludge Depth Survey Report (See Schedule D – Lagoon Solids)	One Time	Submit by 12/15/2021	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To:
Inflow and Infiltration report (see Schedule D)	Annually	February 15	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Hauled Waste Control Plan (See Schedule D)	One time	Submit by 2/15/2022	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Hauled Waste Annual Report (See Schedule D)	Annually	January 15	Electronic copy in the DEQ-approved format	Attached via electronic reporting as directed by DEQ
Industrial User Survey (See Schedule D)	Every 5 years	Submit by no later than 24 months after permit effective date	1 electronic copy and 1 hard copy in a DEQ-approved format	<ul style="list-style-type: none"> • 1 Hard copy to DEQ Pretreatment Coordinator • 1 Electronic copy to Compliance Officer
Outfall Inspection Report (See Schedule D)	One time	Submit by 12/15/2024	Electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ
Mercury Minimization Plan (See Schedule A)	One time	Submit by 12/15/2022	One electronic copy in a DEQ-approved format	Attached via electronic reporting as directed by DEQ

Reporting Requirement	Frequency	Due Date (See note a.)	Report Form (See note b.)	Submit To:
Notes:				
a. For submittals that are provided to DEQ by mail, the postmarked date must not be later than the due date.				
b. All reporting requirements are to be submitted in a DEQ-approved format, unless otherwise specified in writing.				
c. Each test must be conducted during a different quarter each year (e.g., Year 1, Qtr. 1). When possible, conduct the first WET testing concurrent with Effluent Toxics Characterization Monitoring in the third year of the permit term. Afterwards all WET testing will be continued semiannually if the Preliminary Design Report (due August 1, 2022) demonstrates that the permittee's chosen alternative is to cease discharging to the Klamath River. All tests must be completed prior to submission of renewal application.				
d. Monitoring and reporting requirements can be eliminated if the Preliminary Design Report (due August 1, 2022) demonstrates that the permittee's chosen alternative is to cease discharging to the Klamath River.				

9. Biosolids Monitoring Requirements

The permittee must monitor biosolids land applied or produced for sale or distribution as listed below. The samples must be representative of the quality and quantity of biosolids generated and undergo the same treatment process used to prepare the biosolids. Results must be reported as required in the biosolids management plan described in Schedule D.

Table B12: Biosolids Monitoring

Item or Parameter	Minimum Frequency	Sample Type
Nutrient and conventional parameters (% dry weight unless otherwise specified): Total Kjeldahl Nitrogen (TKN) Nitrate-Nitrogen (NO ₃ -N) Total Ammoniacal Nitrogen (NH-N) Total Phosphorus (P) Potassium (K) pH (S.U.) Total Solids Volatile Solids	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B13.	As described in the DEQ-approved Biosolids Management Plan
Pollutants: As, Cd, Cu, Hg, Pb, Mo, Ni, Se, Zn, mg/kg dry weight	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B13.	As described in the DEQ-approved Biosolids Management Plan
Pathogen reduction	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B13.	As described in the DEQ-approved Biosolids Management Plan

Item or Parameter	Minimum Frequency	Sample Type
Vector attraction reduction	As described in the DEQ-approved Biosolids Management Plan, but not less than the frequency in Table B13.	As described in the DEQ-approved Biosolids Management Plan
Record of biosolids land application: date, quantity, location.	Each event	Record the date, quantity, and location of biosolids land applied on site location map or equivalent electronic system, such as GIS.

Table B13: Biosolids Minimum Monitoring Frequency

Quantity of biosolids land applied or produced for sale or distribution per calendar year		Minimum Sampling Frequency
(dry metric tons)	(dry U.S. tons)	
Less than 290	Less than 320	Once per year
290 to 1,500	320 to 1,653	Once per quarter (4x/year)
1500 to 15,000	1,653 to 16,535	Once per 60 days (6x/year)
15,000 or more	16,535 or more	Once per month (12x/year)

Schedule D: The updated biosolids requirements noted below are now included in the current version of the permit. Condition D.5. in the current permit is deleted and the text from that condition is now in the next condition, related to the biosolids management plan. The remaining conditions in the Schedule were renumbered to account for these changes. (Additions to the permit are noted in red, deletions are noted in red strikethrough.)

~~5. Wastewater Solids Annual Report~~

~~The permittee must submit a Wastewater Solids Annual Report by February 19 each year documenting removal of wastewater solids from the facility during the previous calendar year. The permittee must use the DEQ approved wastewater solids annual report form. This report must include the volume of material removed and the name of the permitted facility that received the solids.~~

6.5. Biosolids Management Plan

Prior to distributing biosolids to the public, the permittee must develop and maintain a Biosolids Management Plan and Land Application Plan meeting the requirements in OAR 340-050-0031. The permittee must submit these plans and any significant modification of these plans to DEQ for review and approval with sufficient time to clear DEQ review and a public notice period prior to removing biosolids from the facility. The permittee must keep the plans updated. All plan revisions require written authorization from DEQ and are effective upon permittee's receipt of DEQ written approval. No significant modifications can be made to a plan for an administratively

extended permit (after the permit expiration date). Conditions in the plans are enforceable requirements under this permit.

a. Annual Report

The permittee must submit a Biosolids Annual Report by February 19 each year documenting biosolids management activities of the previous calendar year as described in OAR 340-050-0035(6). The permittee must use the DEQ approved Biosolids Annual report form. This report must include the monitoring data and analytical laboratory reports for the previous year's monitoring specified under Schedule B.

b. Site Authorization

The permittee must obtain written authorization from DEQ for each land application site prior to its use. Conditions in site authorizations are enforceable requirements under this permit. The permittee is prohibited from land applying biosolids to a DEQ-approved site except in accordance with the site authorization, while this permit is effective and with the written approval of the property owner. DEQ may modify or revoke a site authorization following the procedures for a permit modification described in OAR 340-045-0055.

c. Public Participation

- i. DEQ will provide an opportunity for public review and comment on any significant plan modifications prior to approving or denying. Public review is not required for minor modifications or changes to utilization dates.
- ii. No DEQ-initiated public notice is required for continued use of sites identified in the DEQ-approved biosolids management plan.
- iii. For new sites that fail to meet the site selection criteria in the biosolids management plan or that are deemed by DEQ to be sensitive with respect to residential housing, runoff potential, or threat to groundwater, DEQ will provide an opportunity for public comment as directed by OAR 340-050-0015(10).
- iv. For all other new sites, the permittee must provide for public participation following procedures in its DEQ-approved land application plan.

d. Exceptional Quality Biosolids

The permittee is exempt from the requirements in condition 5.b above, if:

- i. Pollutant concentrations of biosolids are less than the pollutant concentration limits in Schedule A, Table A3;
- ii. Biosolids meet one of the Class A pathogen reduction alternatives in 40 CFR 503.32(a); and
- iii. Biosolids meet one of the vector attraction reduction options in 40 CFR 503.33(b)(1) through (8).

Schedule C: Compliance Schedule

The timeframe for completing a wastewater facilities plan in Schedule C of the permit was updated to accommodate a request from the facility. DEQ reviewed these timelines and determined that these requirements would bring the facility into compliance as soon as possible.

The following changes to the table in Schedule C are now included in the permit (deletions from the current permit are noted in red strikethrough, and additions are noted in red):

Complete By	Requirement
February 1, 2021	The permittee must submit to DEQ for review and approval: <ol style="list-style-type: none">1. An evaluation of the existing chlorination system and the ability to better control dosing to meet the interim and final Total Residual Chlorine permit limits, and2. A plan and schedule for implementing chlorination system upgrades.
April August 1, 2021 2022	The permittee must submit a Wastewater Facilities Plan to DEQ for review and approval that includes the improvements to either meet the limits or ceasing the discharge to the Klamath River
August April 1, 2022	The permittee must submit a Preliminary Design Report for either meeting the limits or ceasing discharge and removing the outfall to DEQ for review and approval.
August December 1, 2022 2023	The permittee must secure financing for improvements to either meet the limits or cease discharge and removing the outfall.
August December 1, 2023 2024	The permittee must submit final design plans that address all of DEQ's previous comments for either meeting the limits or ceasing discharge to DEQ for approval.
October February 1, 2025	The permittee must submit a status report to DEQ outlining the progress made toward completion of the improvements.
Annually by January 15 th , until completion of this compliance schedule.	The permittee must submit a status report to DEQ outlining the progress made toward completion of the improvements.
October February 1, 2026	The permittee will complete all improvements and achieve compliance with all of the final effluent limits in Schedule A of the permit (by either meeting the limits or ceasing discharge to the Klamath River).

Signature: Shannon Davis
Shannon Davis (Jul 13, 2022 12:46 PDT)

Email: shannon.davis@deq.oregon.gov

100700-Issuance SSSD 20220708

Final Audit Report

2022-07-13

Created:	2022-07-13
By:	Patty Isaak (patty.isaak@deq.oregon.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAAAGAcI8fjO2ae9QOOwN1hDw8gLFw2g6Yn

"100700-Issuance SSSD 20220708" History

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2022-07-13 - 6:46:55 PM GMT
-  Document emailed to shannon.davis@deq.oregon.gov for signature
2022-07-13 - 6:47:42 PM GMT
-  Email viewed by shannon.davis@deq.oregon.gov
2022-07-13 - 6:47:48 PM GMT
-  Document e-signed by Shannon Davis (shannon.davis@deq.oregon.gov)
Signature Date: 2022-07-13 - 7:46:35 PM GMT - Time Source: server
-  Agreement completed.
2022-07-13 - 7:46:35 PM GMT