

Permit Compliance Inspection Report

Water Quality Program

Central Region Office

A. General Information

Facility Name & Address: Bridgeport POTW
First St and Fairview Ave
Bridgeport, WA 98813

Permit Type: Individual NPDES Permit Permit Number: WA0024066

Permit Effective Dates: 11/1/2015 to 10/31/2020

Date(s) of Inspection: September 30, 2024

Inspection Duration: 12:36 PM to 1:36 PM

Discharge to: Public POTW and Surface Water

Receiving Water: Columbia River

Type of Inspection: Announced
Compliance Inspection - Without Sampling

Weather: Sunny, 57 °F

Photographs Taken: ☒ Yes ☐ No Samples Taken: ☐ Yes ☒ No

B. Personnel Information

Ecology Representative(s): Lucy Cornejo (Lead Inspector)
Caleb Bos (Co-inspector)

Other: Stuart Dezelle, City of Bridgeport

Facility Representative(s): Martin Landin
Phone: (509) 449-5212 Email: bptsewer@nwi.net

Responsible Party/Official: Sergio Orozco
PO Box 640
Bridgeport, WA 98813
Phone: (509) 686-4041 Email: Mayor@BridgeportWA.net

Inspector Signature(s)

Reviewer Signature



Lucy Cornejo (Author) 10/1/2024
Permit Developer/ Facility Manager



Erik Van Doren
Municipal Unit Supervisor

11/8/2024

Date

C. Facility Description & Background

The City of Bridgeport Publicly Owned Treatment works (POTW) has a permit under the National Pollutant Discharge Elimination System (NPDES) permit number WA0024066. The POTW was originally constructed in the early 1950's. A series of upgrades have accrued in 1995, 1997, and 2013/2014. A fire occurred in 2020, which resulted in the reconstruction of the laboratory and storage buildings. The POTW utilizes activated sludge with aeration basin in series with an oxidation ditch that discharges to the Columbia River. The maximum monthly design flow is currently 0.364 MGD.

The last inspection for this site was September 27, 2022. The permit was administratively extended on November 1, 2020.

D. Inspection Narrative & Observations

1. Permit Documentation and Records Review

Caleb and I, Lucy, met with Stuart and Martin at the POTW. We introduced ourselves and I explained the purpose of our visit which was to inspect the site and ask any pending questions prior to finalizing the draft permit. I presented Martin with the ECY outstanding award before we proceeded to start the walkthrough of the facility.

2. Site Walkthrough

The facility is in compliance with their permit conditions. The following are the areas Caleb and I, inspected during the site walkthrough:

Headworks

- Influent enters the plant via gravity. It proceeds to the headworks where the Micro Strainer filters the wastewater and captures debris larger than one fourth of an inch.
- The trash from the Micro Strainer gets placed in a can and emptied out once a week.
- Martin mentioned the influent pump was installed 2014. Maintenance is scheduled for the influent pump next year.
- The thermometer in the sampling fridge displayed four degrees.
- Stuart mentioned there is only one lift station located at the RV park.

Aeration Basin

- The cyclone grit machine removes grease from the wastewater in the aeration basin.
- The aeration basin has pumps that add air to the wastewater. The pumps run every thirty minutes for four minutes. Martin mentioned the aeration pumps are less than one year old. The manufacturer claims to last ten years.
- The plant has two blowers for the aeration basin. One blower at a time is used and will alternate.

Oxidation Ditch

- Martin mentioned having no issues with filamentous bacteria. The oxidation ditch is currently running with one brush.
- The gear box in the oxidation ditch is new. They were replaced after discovering it was leaking.
- The rotos are greased every Monday and Friday.
- A scum pump routes waste back to the oxidation ditch. Martin stated the pump was connected to the digester, but it would add too much liquid which would prevent the sludge from thickening to the appropriate consistency for the screw press to function.

Clarifiers and Blowers

- The wastewater is routed to the split box from the oxidation ditch and split evenly to both clarifiers.
- The clarifiers contain return activated sludge (RAS) pumps to the aeration basin.
- One pump per clarifier is on backup. The pumps alternate operating every 2,000 hours.

Sludge and Solids Handling

- When the POTW needs to waste the sludge will be pumped to the sludge holding tank.
- Martin can control the system with the SCADA system.
- Martin mentioned the plant waste varies through the year. Martin stated the plant generally wastes about 8,000 gallons.
- The screw press pumps are about a year old.
- The waste from the screw press is disposed of at Boulders Park.

Disinfection and Effluent Sampling

- The UV lamps are cleaned weekly.
- UV intensity checks are performed daily, recorded, and stored in the UV/solids handling building.
- The composite effluent fridge contained a thermometer.
- The POTW has the option of disinfecting the wastewater with Chlorine gas system although Martin stated they have not used it for backup.
- The chlorine gas system has been used in the clarifiers for algae control. Martin stated the chlorine system has been used in the clarifiers for about an hour or so.
- A 150-pound chlorine gas scrubber tank is located near the lab for safety.

Laboratory

- The lab accreditation and the wastewater operators class certification were posted in the lab.
- I briefly reviewed the lab bench sheets, control forms and calibration sheets for pH and BOD probe.

- The pH probe is calibrated every morning, and the BOD probe is calibrated prior to each use.
- A copy of the permit was onsite in the lab.

Closing Statement

Stuart asked if the permit contained significant changes. I said no major changes and Caleb explained the only difference was the EPA heat load DMR requirement and yearly E. coli sampling. Caleb mentioned ECY recently hired a lab accreditation auditor who might visit the lab in the future. We thanked Martin and Stuart for their time and left the site at 1:36 PM.

If you have any questions or concerns regarding this inspection report, please contact Lucy Cornejo at 509-823-7912 or luco461@ecy.wa.gov.

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Photo 1
Description: *Headworks*

Photo 2
Description: *Influent Sampling fridge*



Photo 3
Description: *Aeration basin*

Photo 4
Description: *Oxidation ditch*



Photo 5
Description: *Split box*



Photo 6
Description: *Clarifier*

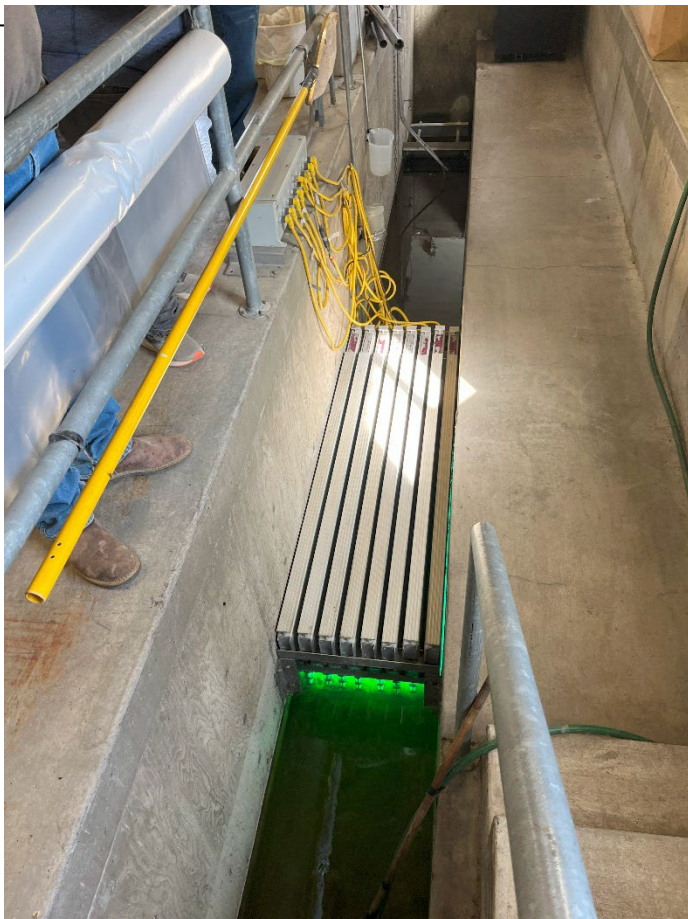


Photo 7
Description: *UV lamps*



Photo 8
Description: *Solids from screw press*



Photo 9
Description: *Effluent sampler*

Photo 10
Description: *Chlorine contact chamber*

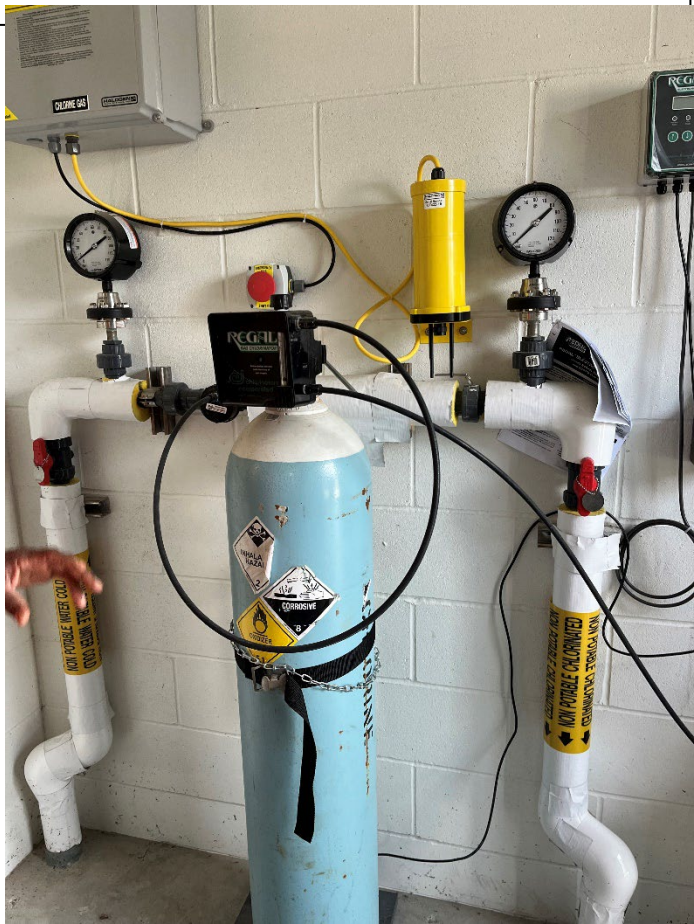


Photo 11
Description: *Chlorine gas tank*

Photo 12
Description: *Chlorine scrubber tank*



Photo 13

Description: *Sludge drying beds*