

Ebensburg Municipal Authority

December monthly report for WWTP



January 27th, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the December 2024 monthly report detailing the operations and maintenance of the Ebensburg wastewater treatment facility.

Thank you for the opportunity to provide Operations and Maintenance Services to the Borough of Ebensburg. To ensure we are providing material that is of value to you, please provide any questions or comments to me regarding this report.

Sincerely,
Luke Byrne

Executive Summary

During the month of December, the Ebensburg wastewater plant treated 23.95 million gallons of wastewater. This equates to an average of 772,800 gallons per day.

The centrifuge was operated weekly this month, and 7.3 tons of dry sludge was sent to the landfill.

During the month, staff received the #2 wet well back from repair. The pump has been installed and is working well.

Inframark staff along with Dodson electric successfully installed the new explosion proof heaters in the head works building. Inframark staff removed the old heaters and used winches to set the new heaters. Dodson wired the units, and epoxy filled the electrical conduits/connections.

A Case equipment representative visited the facility to inspect the 1995 case loader that is used for moving the sludge dumpster. He determined the drop box transmission is the cause of the hydraulic leak. We also showed him the leaking hoses that need replaced and the bad wheel cylinders. The borough should be receiving a quote for repairs to the items listed above.

Staff was able to find a company that builds Bell and Gossett pumps for 1/3 of the cost to replace the faulty one for the boiler. That circulating pump has been ordered and a small plumbing project will be required to install that pump when it is received.

The sewer lift stations were inspected regularly throughout the month. The pump runtime hours were documented, and generators were exercised. Basket screeners were pulled and cleaned out. Snow plowing and other winter maintenance was performed at all three stations. The block heater on the generator at the Caterpillar pumping station in the Industrial Park has been alarming and failing to maintain consistent temperatures. A new heater has been ordered and will be installed when received.

On the Radar

Screening unit repairs

Boiler repairs

UV parts

Garage door needs

Operations

Compliance:

- Effluent pH alkalinity, and dissolved oxygen are analyzed 7 days a week.
- SBR tank testing is performed for process control purposes on Monday, Wednesday, and Friday of each week. Analysis completed is Settleability, and Mixed Liquor Suspended Solids (MLSS) on all four SBR units.
- Influent and effluent compliant testing is completed for reporting to DEP on Tuesdays and Thursdays. The testing performed is two Influent Total Suspended Solids (TSS) and two biological oxygen demand (BOD). Two effluent Total Suspended Solids (TSS), two Carbonaceous Biological Oxygen Demand (CBOD), two Phosphorus, two Total Kjeldahl Nitrogen, two Nitrate-Nitrite, two Ammonia as N, and two fecal coliform samples.
- Record UV intensity.
- Composite samples collected.
- All data is entered into WIMS daily for E-DMR monthly reporting.
- Monthly reports are sent to DEP electronically by the 28th of each month.
- Stormwater inspections

Plant Operations

- Inspected Industrial Park and Emerald Estates pump stations
- Composite samplers are inspected, and samples collected
- Screening unit inspections/clean outs daily
- Grit removal process inspections/optimization
- Record/adjust process SBR phases
- Utility water pumping
- Operations of WAS pumps vs settleability
- Sludge pumped up to digesters for thickening
- Decant digesters to allow more thickening
- Process control lab work completed daily
- Centrifuge operations
- Optimize polymer feed system
- Sludge dumpster preparation
- Removed floating debris in SBR tanks
- Aeration cycles altered to optimize sludge
- Influent and Effluent samplers checked daily
- UV operational checks

Maintenance & Repair

- Inframark staff completed 111 work orders in the month of December
- Greased decanters on SBR tanks
- Greased screening unit
- Influent screening unit hosed and cleaned daily
- LOTO on wet well pump/head work heaters
- Installed #2 wet well pump
- Installed new heaters in head works building
- Greased skid steer
- Cleaned sludge pump access hatches
- Head works garage door broken spring
- Headworks bypass channel cleaning
- Grit removal oil level inspections
- Cleaned wet well pump floats
- Cleaned out UV basin
- Clean out #3 and #4 digester weirs and troughs
- Monthly safety inspections completed for the month
- Checked oil and belts on blowers daily, grease weekly
- Centrifuge building floor hosed
- Greased centrifuge
- Inspect State School weir box
- Snow removal and salting walkways
- Control building floors swept and mopped weekly

Financial Update

Maintenance Expenditures

Dodson electric	\$84.55	Wiring repair cord for submersible pump
State Chemical	\$312.42	Cabinet refill/brake clean/lubrication/bee spray
Tractor supply	\$90.88	Digging bar / portable air tank
Long Barn	\$98.80	Plumbing/
Wal-Mart	\$46.63	Water filters
LB water (Credit)	+\$784.40	Credit for returned flanges/Centrifuge meter

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$555.28	+\$151.12	\$706.40
Sludge Cap	\$80,000	-\$7,226.33	\$10,023.43	-\$17,249.76

Health & Safety

There were no accidents in the month of December
 Personnel have worked 1,796 days (5 years) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Winter weather SOP
- LOTO SOP

Personnel

Name	Title	Operator Certifications
Randy Lauer	Operator II	PA Class A, E, Wastewater Subclass 1,2,3,4
Kyle Smiley	Operator II	PA Class A, E, Water Subclass 1,10,11,12
Tony Perott	Operator I	PA Class C, E, Water Subclass 1,6,7,8,12
Shawn Jones	Operator in Training	Training for PA DEP exam
Matt Hull	Operator in Training	Training for PA DEP exam
Luke Byrne	Project Manager	PA Class A, E, Water Subclass 1,7,8,10,11,12 PA Class A, E, Wastewater