

Ebensburg Municipal Authority

September monthly report for WWTP



October 28th, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the September 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 September, the Ebensburg wastewater plant treated 13,752,100 million gallons of wastewater. This equates to an average of 458,400 gallons per day.

The centrifuge was operated twice this month on average and 5.98 tons of dry sludge was sent to the landfill.

The Ebensburg WWTP received 215,700 gallons of hauled in sludge this month from Somerset Co. Water System. The sludge was unloaded into the drying bed where the liquids will slowly leach into the plant headworks for treatment. The solids will remain in the drying beds and later hauled out as dry sludge in 2025.

During the month, staff faced several failed attempts trying to operate the centrifuge. On September 11th, staff was operating the centrifuge when the sludge feed line hose blew out. An emergency shut down was initiated and staff cleaned up the mess. Afterwards staff performed several clean in place (CIP) sequences. This was needed to thoroughly flush the remaining sludge out of the unit. In the weeks to follow staff struggled with getting the centrifuge to operate properly. After several failed attempts and working with Centrisys, staff discovered a clogged sludge feed line. The clog was removed and the centrifuge is operating well.

Several check valves were opened cleaned/inspected and rebuilt in the pipe gallery.

Installed isolation valves on process water line for flushing the centrifuge.

Dodson Electric has ordered two new unit heaters to be installed. ETA on those units are November 7th. Once received they will be installed promptly.

Over the past several months staff has been battling air in the well water at the treatment facility. There is no connection to city water at the treatment plant so the facility relies on a ground well for potable water. We have repaired one small leak on the well line outside, but this repair did not fix the air issue. We may have to contact a well company to pull the well pump and inspect the system. The age of the well pump is unknown.

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 at lift stations. Inframark installed a new generator battery at the CAT lift station. All three generators were inspected by Cummins generator service this month. All generators were found to be in good operating condition.

On the Radar

Screening unit repairs

Screening unit heating units

Wet well pump rebuild

Operations

Compliance:

- SBR tank testing is performed for process control purposes on Monday, Wednesday, and Friday of each week. Analysis completed is one Settleability, one Mixed Liquor Suspended Solids (MLSS) one Mixed Liquor Volatile Suspended Solids (MLVSS).
- 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.
- Effluent pH and Dissolved Oxygen are done 7 days a week.
- 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.

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
- Record/adjust process SBR phases
- Dissolved oxygen was increased to optimize seasonal changes
- 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 78 work orders in the month of September
- Greased decanters on SBR tanks
- Greased screening unit
- Influent screening unit hosed and cleaned daily
- Well water line repair
- Replaced batteries in timers at plant
- Repaired Centrifuge feed line
- Installed isolation valves on process water for centrifuge
- Installed new fuses for unit heaters
- Repaired sludge feed line check valves
- Cleaned wet well pump floats
- Inspected stormwater basins
- Ran several CIP's on centrifuge
- 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
- Control building floors swept and mopped weekly
- Cut grass

Financial Update

Maintenance Expenditures

Tractor Supply	\$55.10	Blower room exhaust fan belts
All American Fire Equipment	\$42.40	Centrifuge line repairs
USA Blue Book	\$9.72	Effluent sampler dipper

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$1,971.19	\$107.22	\$1,863.97
Sludge Cap	\$80,000	\$21,773.95	\$10,658.12	\$11,115.83

Health & Safety

There were no accidents in the month of September

Personnel have worked 1,704 days (4 years 9 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Hauled in sludge

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
Luke Byrne	Project Manager	PA Class A, E, Water Subclass 1,7,8,10,11,12 PA Class A, E, Wastewater