

Ebensburg Municipal Authority

October monthly report for WWTP



November 25th, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the October 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 October, the Ebensburg wastewater plant treated 13,950,010 million gallons of wastewater. This equates to an average of 450,000 gallons per day.

The centrifuge was operated weekly this month, and 9.3 tons of dry sludge was sent to the landfill.

Whole Effluent Toxicity testing was completed in October. This is an annual testing requirement from PA DEP. This test measures wastewater's effects on specific test organisms' ability to survive, grow, and reproduce. Ebensburg's effluent discharge was found to be non-toxic to the test organisms in all three categories. The 80 page report detailing the findings was submitted to PA DEP on November 11th, 2024.

During the month, staff replaced a bad proximity switch on the centrifuge conveyor. While the covers were off the conveyor, staff noticed the liners in the screw conveyor are worn heavily. A quote for replacement of the liners has been requested thru Centrisys

Fuses were inspected and one replaced on #1 wet well pump. The pump was split, and a new wear ring was installed. The #2 wet well pump is being pulled and sent for bearing inspection/rebuild.

A new flow meter was installed for the centrifuge and is operating properly. Some additional SCADA work is required to allow for the historical data to be viewable.

Dodson Electric has ordered two new unit heaters to be installed in the headworks building. ETA on those units was November 7th but we have been informed there is a delay. Once received they will be installed promptly.

Inframark staff unclogged floor drains in the centrifuge building and basement of the WWTP.

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. Inframark has transferred a crane truck internally to the Ebensburg project to allow for the pulling and inspections of pumps at the lift stations. We plan to pull all the pumps in 2025 and evaluate the condition of each pump.

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.
- WET Testing completed for 2024

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 129 work orders in the month of October
- Greased decanters on SBR tanks
- Greased screening unit
- Influent screening unit hosed and cleaned daily
- Installed new fuse on wet well pump
- Unclogged floor drains with jetter
- Process water discharge repairs
- Headworks bypass channel cleaning
- Auto programming
- Repaired sludge feed line check valves
- 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
- Control building floors swept and mopped weekly
- Cut grass

Financial Update

Maintenance Expenditures

Integrity Industrial Contracting	\$755.00	Annual crane inspection
All American Fire Equipment	\$106.90	Annual fire extinguisher inspections
Sealing Specialties	\$225.28	Gasket material and packing
Amazon	\$21.18	Skimmer nets

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$1,863.97	\$1,108.36	\$755.61
Sludge Cap	\$80,000	\$11,115.83	\$1,852.50	\$9,263.33

Health & Safety

There were no accidents in the month of October

Personnel have worked 1,735 days (4 years 10 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- WET testing SOP
- Overhead lifting 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
Luke Byrne	Project Manager	PA Class A, E, Water Subclass 1,7,8,10,11,12 PA Class A, E, Wastewater