

Ebensburg Municipal Authority

July monthly report for WWTP



August 26, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the July 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 July, the Ebensburg wastewater plant treated 13,625,600 million gallons of wastewater. This equates to an average of 469,500 gallons per day.

The centrifuge was operated once a week on average and 8.7 tons of dry sludge was sent to the landfill.

During July, Inframark continues our mission to inspect the WWTP equipment to create a ten-year capital improvement plan. We have been thoroughly inspecting each piece of equipment along with our mechanic to identify the condition and age of each asset. This month we have been working with a local fabricator to assist us with rebuilding the screening unit. We have found many of the wear components on the screening unit need replaced. New bearings, drive shafts, fingers, brushes, and bottom seals.

Staff opened and inspected the screening unit auger press that was rebuilt late last year. Everything was found to be working properly.

July's hot weather caused an issue with one of the VFD's that controls SBR# 4 decanter. The VFD is located in the blower building which houses 7 blowers that run frequently. Between the heat generated from the blowers and the summer temperatures, the VFD faulted 4 times during the first two weeks of July. A new VFD has been ordered by Dodson Electric. In the interim, staff has cleaned the louvers for the building and placed a cooling fan directly on the VFD panel to provide additional cooling until a new unit can be installed.

Staff has finished cleaning up the garage area at the facility. New shelving has been built and all items have been organized and labeled.

The WWTP drying beds were cleaned out and solids haul off. The drying beds will be refilled sometime in October.

While the borough skid steer was at the facility for the clean out of the drying bed, staff fix the lawn in several areas that was damaged during the Influent valve replacement project last year. Additional topsoil is needed, and everything will be planted near fall.

The sewer lift stations were inspected regularly throughout the month. The pump runtime hours were documented, and generators were exercised. The lift station basket screeners were cleaned at all locations. Runtimes for the Industrial Park lift station have be reduced significantly since the repairs completed in June. A supplemental attachment has been submitted with this months operating reports detailing a reduction of 14 hours of runtime per day at the Marine center lift station.

On the Radar

Centrifuge flow meter

Screening unit repairs

SBR air valve actuators

Annual crane inspections

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 92 work orders in the month of July
- Greased decanters on SBR tanks
- Greased screening unit
- Influent screening unit hosed and cleaned daily
- Cleaned centrifuge sludge pump check valve
- Pulled and cleaned WAS pumps
- SBR#1 Prep
- Cleaned out process water chamber
- Clean out #3 and #4 digester weirs and troughs
- Monthly safety inspections completed for the month
- Hosed and cleaned U.V. trough, bulbs, sensors
- 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

Ram	\$711.78	3"
Amazon	\$315.38	Control panel bulbs/compressed air/impact
Hach	(\$309.00)	DO sensor caps (returned)
Grainger	\$411.38	Belts for centrifuge/grease
Custom Control Unlimited	\$450.00	SCADA programming dialer

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$7,777.40	\$1,579.54	\$6,197.86

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Sludge Cap	\$80,000	\$37,572.99	\$5,745.26	\$31,827.73

Health & Safety

There were no accidents in the month of July

. Personnel have worked 1,643 days (4 years 7 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- LOTO SOP
- Heavy Equipment safety

Personnel

Name	Title	Operator Certifications
Sharon Burkett	Lead Operator	PA Class A, E, Wastewater Subclass 1,2,3,4,5
Kyle Smiley	Operator II	PA Class A, E, Water Subclass 1,10,11,12
Randy Lauer	Operator II	PA Class A, E, Wastewater Subclass 1,2,3,4
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