

Ebensburg Municipal Authority

December monthly report for WTP



January 23, 2022

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the December 2022 monthly report detailing the operations and maintenance of the Ebensburg water treatment facility.

Thank you for the opportunity to provide Operations and Maintenance Services to the city 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 water treatment plant treated 28,377,000 gallons of reservoir water. This equates to an average of 915,387 gallons per day. The table found in plant performance of this packet showcases past month's historical average flows. Current water production totals indicate water loss is on the rise.

An average of 63,303 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

On December 7th the elevated tank was filled. Inframark was asked to help collect the samples required to get the elevated tank back into service. Inframark collected two bacteriological samples and one set of volatile organic compounds (VOC's). All sample results were found to be in compliance. Inframark contacted PA DEP requesting approval to return the elevated tank back into service. PA DEP informed Inframark that the tank could not be returned into service until a completion of construction was submitted and a fee was paid. Inframark passed this information along to the borough manager and public works director.

Inframark along with representatives of water service professionals conducted the required annual filter inspection and media analysis of filter # 3. The filter was found to be in excellent condition meeting all design specs. We have not received the results from the media analysis yet.

While working with the public works director on the end of year reports, Inframark discovered an unaccounted-for water study/plan was never submitted back in 2018. Inframark offered to compose this document and detail a plan for Ebensburg to reduce unaccounted for water. Inframark submitted this document to PA DEP on December 20th and we are waiting for a response.

On the Radar

Service clarifiers

DAF service

Rapid mix motor

DAF variable frequency drive manual/auto programming

Operations

Compliance:

- What is the monthly compliance reporting? We send about 10 pages of data that have been collected by our operators and SCADA system. These reports consist of over 20,000 points of data that are compiled into a report and sent to the state every month called the “Monthly Operating Report” (MOR). This report is a representation of how well the plant is operating during the prior month.
- November monthly compliance reporting was collected and submitted to PA DEP.
- Inframark submitted a study/plan to PA DEP detailing historical water loss and future plans to address unaccounted for water. We are currently waiting for a response from PA DEP.
- Every month we are required by state regulations to collect and analyze a minimum of nine bacteriological samples per a state approved sampling site plan. In December, we collected nine samples. Of the nine samples zero were found to be total coliform positive. Every month we are also required to monitor chlorine levels in the distribution system. A minimum of one sample per week is required and the sample must be equal to or greater than 0.20mg/L free chlorine. Four samples were collected in December and all four samples were at or above the minimum requirement.
- Calibrated online and lab instrumentation to conform to PA DEP requirements.
- Collected and documented comparative grab samples to ensure accuracy of continuous chlorine analyzers.
- Fourth quarter filter inspection and annual media analysis was completed
- Calibrated chlorine scale
- Verified chlorine alarm parameters
- Collected and documented comparative grab samples to ensure accuracy of continuous turbidimeters and pH analyzers.
- Monitor water quality in clear well

Plant Operations

- Plant production has fluctuated through the month ranging from 788,000-1,098,000 gallons/day
- Twice weekly, one filter is taken offline, washed, and placed back into service when clean
- Conduct process control analysis
- Backwash flow rates are being monitored daily
- Filter media is being observed daily for irregularities
- Clarifiers are continuously monitored for sludge content and settling capability

- Flows and chemical feed rates are adjusted daily to meet system demands
- DAF scrapper adjustments
- DAF air saturation setpoint adjustments
- Monitor clarifier flow setpoints
- Online instrument flows are verified multiple times daily
- Downstream flow is monitored daily and adjusted as needed

Past month's historical average flows

Date	Average gallons filtered per day	Total gallons filtered per month
January, 2022	856,032	26,537,000
February, 2022	964,679	27,011,000
March, 2022	1,003,806	31,118,000
April, 2022	960,800	28,824,000
May, 2022	1,013,742	31,426,000
June, 2022	786,433	23,593,000
July, 2022	760,323	23,570,000
August, 2022	775,935	24,054,000
September, 2022	1,047,267	31,418,000
October, 2022	949,452	29,433,000
November, 2022	1,017,267	30,518,000
December, 2022	915,387	28,377,000

Maintenance & Repair

Inframark staff completed 80 work orders in the month of December

- Ladder inspections
- Greased DAF recycle pump
- Greased DAF scrapper
- Fire extinguisher inspection
- SCBA inspections
- Sump pumps exercised
- Eye wash/safety shower inspections
- Grease clarifier drives
- Chlorine room alarm test
- Removed lagoon vault sludge
- Greased finished water pumps/motors
- Alternated finished water pumps weekly
- Cleaned pH and turbidity meters weekly
- Jar testing to optimize chemical usage
- Water line plumbing
- Boiler cleaning
- Monitored filter beds for deficiencies
- Cleaned lagoon screens
- Cleaned facility

Financial Update

Maintenance Expenditures

Vendor	Expense	Description
Hach	\$778.28	Raw water pH probe
Ram Industrial Services	\$950.16	Rapid mix motor
Home Depot	\$323.41	Water line plumbing
Water Service Professionals	\$2,200	Annual filter media analysis/inspection
McCarls	\$285	Annual boiler service

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,010.00	\$11,050.26	\$4,536.85	\$6,513.41

Health & Safety

There were no accidents in the month of December. Personnel have worked 1,065 days (2 years 11 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Updated winter weather plan

Personnel

Name	Title	Wastewater Operator Certifications
Luke Byrne	Water Plant Manager	PA Class A, E, Water Subclass 1,7,8,10,11
Kyle Smiley	Operator	PA Class A, E, Subclass 1

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December monthly report for Ebensburg WWTP



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Sincerely,
Michael Montgomery

Executive Summary

During the month of December, the Ebensburg wastewater treatment plant treated 29.650 million gallons of clean water to Howells Run. This equates to a daily average of .956 million gallons for the month of November. All testing and operational requirements were met for the month of December. Centrifuge operation was ran as needed for the month of December and 2.982 tons of sludge was sent to the landfill.

On the Radar

Borough Engineer is looking into getting a new 20" influent valve installed at the facility, for SBR tank # 2. Contractor Hickes on site (12-7-22) to look at up and coming valve replacement project.

Operations

Compliance:

- Mon, Wed, Fri SBR tank testing is done for process control purposes
- Tues, Thurs influent and effluent compliant testing is done for reporting to DEP
- All data is entered into the computer daily for monthly reporting.
- Monthly reports are sent to DEP electronically by the 28th of each month

Plant Operations

- Made plant rounds and equipment checks daily several times a shift
- Ran centrifuge was ran as needed for the month
- Influent screening unit hosed and cleaned daily
- Work orders complete for the month
- Swept and hosed influent building floor, centrifuge building floor, centrifuge sludge dumpster area.
- Plant safety inspection complete for the month of December

Maintenance & Repair

- Greased decanters on SBR tanks for the month
- Monthly safety inspection complete for the month
- Centrifuge building floor hosed and cleaned as needed
- Control building floors swept and mopped weekly

Financial Update

Maintenance Expenditures

Vendor	Expense	Description
220 Surplus	\$28.62	Flashlights for plant
ExxonMobil	\$15.00	Gas for plant
Kaza	\$102.61	Fire extinguisher inspection
	Total	
	\$146.23	

Caps For WWTP	Contract Total per Year	December 2022	Contract year to date	Remaining Balance
Maintenance Cap	\$23,895.24	\$146.23	\$22,795.55	\$1,099.69
Sludge	\$78,854.40	\$9,354.57	\$51,375.74	\$27,478.66

Health & Safety

There were no accidents in the month of December. Personnel have worked 6540 Days (17 years 9 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Cyber security updates

Personnel

Name	Title	Wastewater Operator Certifications
Michael Montgomery	Plant Manager	PA Class A, E, Wastewater Subclass 1,2,3,4
Sharon Burkett	Lab Supervisor	PA Class A, E, Wastewater Subclass 1,2,3,4,5
Kyle Smiley	Operator	PA Class A, E, Water Subclass 1
	Operator in Training	