

# Ebensburg Municipal Authority

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January monthly report for WTP



February 26, 2023

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the January 2024 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

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## Executive Summary

During the month of January, the Ebensburg water treatment plant treated 35,761,000 gallons of reservoir water. This equates to an average of 1,153,581 gallons per day. The table found in plant operations of this packet showcases past month's historical average water production. Historical water production comparisons for January indicate an increase of 158,002 gallon per day.

An average of 121,290 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system. This is higher than usual due to the large mainline break in Ebensburg's system and selling additional water to Jackson township.

On new years day Inframark notified the publics work director of excessive water loss on the high system around 3 pm. A leak was discovered on West Street and was very challenging to isolate down. As the water supply for Ebensburg reached critical levels even with the plant running at full capacity, Inframark worked closely with Ebensburg's publics work crews to isolate the leak. Inframark employees worked alongside borough crews over the next three days assisting with the repair, refilling the system, flushing hydrants, and collecting the required bacteriological samples to lift the boil water notice. Thank you to everyone for a job well done and a special thanks to the Dauntless volunteer fire fighters who assisted with flushing hydrants till 4am. I would also like to thank folks at Highland water authority and LB water for getting us the pipe fittings need to make the repair.

On January 5<sup>th</sup>, first quarter disinfection by-product samples were collected at sample sites 700 Mini mall and 701 Airport. Both samples were found to be under the MCL for Haloacetic acids and Trihalomethanes. This is the fifth quarter in a row that the system has been under the MCL.

Hillcrest elevated tank motor#2 tripped out requiring a manual reset of the breaker. It was discovered the front reset switch was not resetting and required the panel to be opened to manually reset.

A replacement seal kit has been installed on the DAF unit Goulds recycle pump. The top seal on the impeller shaft was found to be torn.

A new ASCO solenoid was installed on the raw water valve replacing the current worn solenoid.

On January 26<sup>th</sup> RAM industrial was called to pull the lagoon motor pumps at the WTP. Staff noticed pump #2 was not operating properly. We discovered the flange valve where the pump seats to the pipe is deteriorated. We are currently working on pricing for the repair.

Collected first round of PFAS samples.

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## On the Radar

Drought Contingency Plan updates

Lagoon pond pumps

Clearwell inspection ROV

DAF Sump pump

DAF VFD secondary mixing

DAF Spare parts

## 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.
- January monthly compliance reporting was collected and submitted to PA DEP
- Monthly we are required by state regulations to collect and analyze a minimum of nine bacteriological samples per a state approved sampling site plan. In January, we collected nine samples. Of the nine samples, zero were found to be total coliform positive.
- Monthly we are 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. Five samples were collected in January and all five samples were at or above the minimum.
- 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.
- Collected first quarter disinfection by-product samples for 2024.
- Collected first quarter PFAS samples for 2024.
- Calibrated online and lab instrumentation to conform to PA DEP requirements.
- Collected and documented comparative grab samples to ensure accuracy of continuous chlorine analyzers.
- Collected and documented comparative grab samples to ensure accuracy of continuous turbidimeters and pH analyzers.
- Monitor water quality in clearwell for all compliance compounds and secondary contaminants.

## Plant Operations

- Plant production has fluctuated through the month ranging from 1,391,000 – 1,024,000 gallons/day.
- Filters are washed every 144 hours which results in each filter being washed once per week.
- Filters have been performing well during longer runtimes and this also reduces the amount of backwash water used weekly.
- Conduct process control analysis daily.
- Backwash flow rates are monitored during backwash cycles.
- Filter media is 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.
- Chemical feed calculations and pump adjustments.
- Overnight flow monitoring.
- Pump station monitoring.
- 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 water production

Date	Average gallons filtered per day	Total gallons filtered per month	Days Supplying Nanty Glo
January, 2023	1,041,323	32,281,000	19
February 2023	885,143	24,784,000	0
March, 2023	895,484	27,760,000	2.5
April, 2023	909,202	27,276,000	0
May, 2023	902,161	27,967,000	0
June, 2023	912,633	27,379,000	0
July, 2023	860,323	26,670,000	0
August 2023	1,008,484	31,263,000	16
September, 2023	940,233	28,207,000	5
October, 2023	856,484	26,551,000	0
November, 2023	923,933	27,718,000	0
December, 2023	1,081,935	33,540,000	0
January, 2024	1,153,581	35,761,000	0

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## Maintenance & Repair

Inframark staff completed 81 work orders in the month of January

- Fire extinguisher inspections
- DAF scraper adjustment
- CL17 cleaning
- Salting/shoveling
- SCBA inspections
- Ladder inspections
- Sump pumps exercised
- DAF lightning mixer oil level inspections
- Blower lubrication
- Flushed caustic lines
- DAF raw water valve cycle
- Finished water pump packing inspections
- Raw water ASCO solenoid replacement
- Hillcrest chlorine analyzer cleaning/calibration
- Eye wash/safety shower inspections
- Grease clarifier drives
- Cleaned clarifier troughs
- Chlorine room alarm test
- Greased finished water pumps/motors
- Alternated finished water pumps
- Cleaned pH and turbidity meters weekly
- Jar testing to optimize chemical usage
- DAF sump level sensor verifications
- Monitored filter bed expansion
- Cleaned facility

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## Financial Update

### Maintenance Expenditures

Vendor	Expense	Description
Long Barn	\$180.94	Lighting, plumbing, electrical, squeegee, screws
Hach	\$76.08	Distribution sampling chlorine dispenser

### Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$25,000	\$25,000	\$257.02	\$24,742.98

## Health & Safety

There were no accidents in the month of January. Personnel have worked 1,461 days (4 years 1 month) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- Hydrant flushing
- Boil water advisory requirements
- Cyber security

## Personnel

Name	Title	Water Operator Certifications
Kyle Smiley	Operator	PA Class A, E, Subclass 1
Tony Perott	Operator	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