

Ebensburg Municipal Authority

March monthly report for WTP



April 24, 2023

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the March 2023 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 March, the Ebensburg water treatment plant treated 27,760,000 gallons of reservoir water. This equates to an average of 895,484 gallons per day. March 2023 production indicates roughly a 108,322 gallon per day reduction in water when compared to March 2022. The table found in plant performance of this packet showcases past month's historical average flows. It should also be noted that Nanty Glo purchased water for 2.5 days during the month.

An average of 64,873 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

On March 4th plant flows were increased to supply 300GPM to Nanty Glo. Chemical feed rates were adjusted, and operations were closely monitored during the increased production.

Inframark set up a meeting with Nanty Glo's operators to investigate the active digits on the meter being used during bulk water purchases. We discovered only six digits were activated causing the meter to reset to 0 throughout the course of one billing cycle. Ebensburg's public work director along with a meter specialist have activated all 10 digits available allowing the meter to register millions of gallons.

Replaced the caustic chemical feed pump after hours, due to equipment failure. The failed pump has been rebuilt and placed on standby for future use.

Inframark was asked by Borough staff to assist with problems they were experiencing related to call outs from Industrial Park wastewater lift stations. Inframark along with the public work director programed the dialer with new current Ebensburg staff phone numbers to resolve the problem.

Conducted PA DEP required second quarter filter evaluation on filter # 1. The filter was found to be in excellent condition meeting all design specs.

Completed Ebensburg's 2022 chapter 110 reports and submitted them to PA DEP.

Submitted 2022 consumer confidence data to Ebensburg's consecutive bulk water customers.

On the Radar

Service clarifiers

DAF service

Consumer Confidence Report (CCR)

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.
- March 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 March, 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 March and all four samples were at or above the minimum requirement.
- Conducted second quarter filter evaluation on filter #1.
- Submitted annual chapter 110 reports to PA DEP.
- Submitted 2022 consumer confidence data to Ebensburg’s consecutive bulk water customers.
- 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 782,000-1,126,000 gallons/day
- Filters are washed every 72 hours which results in each filter being washed twice per week
- Conduct process control analysis
- 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

- DAF scraper 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	Days Supplying Nanty Glo
March, 2022	1,003,806	31,118,000	0
April, 2022	960,800	28,824,000	0
May, 2022	1,013,742	31,426,000	17
June, 2022	786,433	23,593,000	0
July, 2022	760,323	23,570,000	0
August, 2022	775,935	24,054,000	7
September, 2022	1,047,267	31,418,000	30
October, 2022	949,452	29,433,000	15
November, 2022	1,017,267	30,518,000	15
December, 2022	915,387	28,377,000	0
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

Maintenance & Repair

Inframark staff completed 84 work orders in the month of March

- Ladder inspections
- Greased DAF recycle pump
- Greased DAF scraper
- Fire extinguisher inspection
- SCBA inspections
- Sump pumps exercised
- 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
- DAF drain line unclogged with jet nozzle
- Pumped standing water out of void in wall beside filter #2
- Caustic pump repairs
- Lubricated DAF scraper chains

- Monitored filter beds for deficiencies
- Cleaned lagoon vault
- Cleaned facility

Financial Update

Maintenance Expenditures

Vendor	Expense	Description
Long Barn	\$125.82	DAF sprayer PVC plumbing
Custom Controls	\$155.00	SCADA Saltlick issues
Home Depot	\$144.97	Electrical, sump discharge hose, extension cord
Wal-Mart	\$82.61	Saltlick data switch for communication

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,522.00	\$26,453.36	\$508.40	\$25,944.96

Health & Safety

There were no accidents in the month of March. Personnel have worked 1,155 days (3 years 3 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- LMI pump rebuild training

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
Jacob Dumm	Operator in training	Preparing for Exam