

Ebensburg Municipal Authority

April 2023 monthly report for Ebensburg WWTP



May 22, 2023

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the April 2023 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,
Michael Montgomery

Executive Summary

During the month of April 2023, Ebensburg wastewater treatment plant treated 15.585 million gallons of clean water to Howells Run. This equates to a daily average of .5195 million gallons for the month of April. All testing and operational requirements were met for the month of April. Centrifuge operation was ran as needed for the month of April and 3.094 tons of sludge was sent to the landfill.

On the Radar

Hickes contractor for influent valve replacement is complete.

Inframark employees were at the plant around the clock during the project to help fuel the pumps during bypassing of the flow. Bypassing was not a problem and went well. All 4 SBR tanks are online and operating well.

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.
- Hickes contractor for valve replacement was assisted by Inframark employees any way we could. Plant was maned around the clock by Inframark employees during the valve project
- Swept and hosed influent building floor, centrifuge building floor, centrifuge sludge dumpster area.
- Plant safety inspection complete for the month of April 2023.

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.
- Cut grass and weed eating around the plant as needed
- Work orders complete for the month.

Financial Update

Maintenance Expenditures

Caps For WWTP	Contract Total per Year	March 2023	Contract year to date	Remaining Balance
Maintenance Cap	\$25,691.76	\$1,899.84	\$2,684.73	\$23,007.03
Sludge	\$84,782.76	\$4,602.55	\$13,123.11	\$71,659.65

Health & Safety

There were no accidents in the month of April. Personnel have worked 6663. Days (18 years 1 month) 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	

Ebensburg Municipal Authority

Effluent Quality and Permit Compliance for

[April] Monthly Report [5/22/2023]

Operations

- ✓ Plant returned 15.585 million gallons of clean water to Howells Run
- ✓ All tests and operational requirements were met for April.

Maintenance & Repair

- I. Made daily equipment checks and plant rounds several times a shift.
- II. Plant safety inspection complete for the month.
- III. Ran centrifuge as needed for the month.
- IV. Swept and mopped control building floors weekly
- V. Cut grass and weed eat around plant.
- VI. Work orders complete for the month.

Caps	This Month	Contract Year to Date	Remaining Balance
Maintenance Cap	\$1,899.84	\$2,684.73	\$23,007.03
Sludge Disposal Cap	\$4,602.55	\$13,123.11	\$71,659.65

Michael J. Montgomery
Plant Manager- Ebensburg WWTP

Ebensburg Municipal Authority

April monthly report for WTP



May 22, 2023

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the April 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 April, the Ebensburg water treatment plant treated 27,276,000 gallons of reservoir water. This equates to an average of 909,202 gallons per day. April 2023 production indicates a 51,598 gallon per day reduction in water when compared to April 2022. The table found in plant operations of this packet showcases past month's historical average flows.

An average of 61,276 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

On Saturday April 1st power was lost to the facility at 2 pm. The loss of power brought to light a few unexpected challenges. The first issue was the generator transfer switch at the WTP did not transfer power properly. After a few days of trouble shooting, we discovered an electrical board for the generator transfer switch went bad. The second issue we faced was the DAF VFD's lost their internal run program and the DAF had to be taken offline. Both electrical issues are believed to be caused by the power outage.

In the weeks following the outage staff was able to perform annual maintenance and cleaning of the DAF unit while it was offline. We worked with a VFD programmer to get the internal programming for the DAF VFD's restored. The DAF was placed back into service and is running well.

On April 10th fire chief Mike Sheehan notified Inframark of a brush fire at the lower reservoir. The fire was extinguished using a foaming agent due to limited truck access. The chief's concern was the foam residual left floating in the water source. Inframark quickly responded to the situation by shutting off the intake from that source while we reviewed the safety data sheets provided by the fire chief. We decided to leave the source off for a few days during rain events to allow for some natural dilution to occur. Inframark has placed the water source back into service and has also collected annual samples of that water source to ensure the water quality was not impacted. Inframark also discussed source water protection and awareness of fighting fires measures near source water with Dauntless member Ron Springer. Ron agreed to convey the information at their next monthly meeting.

On April 17th Cummins generator repaired the WTP transfer switch board and also completed their annual service of the generator.

On Sunday April 23rd Inframark responded to a planned power outage from 2AM-6AM. Staff was able to take the plant offline before the outage to prevent any damaged from occurring when power was lost. The shut down/start up went smoothly without any issues.

Inframark hosted a tour for the Saint Francis University environmental engineering class. The professor and students were very grateful for the experience and shared their gratitude through an email. I would also like to thank the Authority for allowing Inframark to host events like this at Ebensburg's facility.

On the Radar

Service clarifiers

PA DEP inspection

Consumer Confidence Report (CCR)

Basement sump pump alarms

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.
- April monthly compliance reporting was collected and submitted to 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 April, 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 April and all four samples were at or above the minimum requirement.
- 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.
- Created a chemical tracking report in HACH WIM
- Annual review/updates of our comprehensive monitoring plan.
- 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 819,000-1,060,000 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
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
April, 2023	909,202	27,276,000	0

Maintenance & Repair

Inframark staff completed 83 work orders in the month of April

- 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
- Clarifier PAC pump repairs
- Monitored filter beds for deficiencies
- Cleaned lagoon vault
- Cleaned facility

Financial Update

Maintenance Expenditures

Vendor	Expense	Description
Ram Industrial Services	\$1,075.66	1/2HP sump pump
Amazon	\$419.45	2 lab faucets
Tractor Supply	\$97.44	Clarifier grease and oil drain pan

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,522.00	\$25,944.96	\$1,592.55	\$24,352.41

Health & Safety

There were no accidents in the month of April. Personnel have worked 1,185 days (3 years 4 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- CMP updates/review

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