

# Ebensburg Municipal Authority

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May 2023 monthly report for Ebensburg WWTP



June 26, 2023

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,  
Inframark is pleased to submit the May 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

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## Executive Summary

During the month of May 2023, Ebensburg wastewater treatment plant treated 16.007 million gallons of clean water to Howells Run. This equates to a daily average of .516 million gallons for the month of May. All testing and operational requirements were met for the month of May. Centrifuge operation was run as needed for the month of May and 11.776 tons of sludge was sent to the landfill.

## On the Radar

The Influent valve project is complete. The New valves and actuators are working well.

## Influent Valve Project

During the valve replacement project Inframark helped the contractor with the following.

- Unloading and setting up portable pumps and lines
- Worked around the clock while bypassing to fuel pumps and make sure bypass pumps were running during the process.
- Worked on breaking free rusty bolts on valves
- Helped remove and install new valves
- Filled scrap dumpster with old valves and sent to scrap yard
- Will repair yard area due to equipment making ruts during valve replacement
- Helped tear down portable pumps and lines to be loaded up on the truck

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## 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 28<sup>th</sup> of each month.

## Plant Operations

- Made plant rounds and equipment checks daily several times a shift.
- Ran centrifuge as needed for the month.
- Influent screening unit hosed and cleaned daily.
- Work orders complete for the month 314
  
- Swept and hosed influent building floor, centrifuge building floor, centrifuge sludge dumpster area.
- Plant safety inspection complete for the month of May 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 was 314, 4 correctives were influent valves

## Financial Update

### Maintenance Expenditures

Uni-Mart	\$350.62	Diesel for portable pumps, valve project
Uni-Mart	\$69.44	Gas for mower, weed eater
Sheetz	\$18.51	Gas for mower, weed eater
Ace Hardware	\$595.70	Portable compressor, 4 extension cords, 8 cutting wheels, scraper, putty knife, garden hose, 4 hose repair kits, 3 grinding wheels
Tractor Supply	\$327.60	1 bow clevis, 3 lifting straps, 4, 5-gallon buckets, rain suit, battery charger, 5-gallon diesel can, 1 shackle
Ebensburg NAPA	\$54.47	1-gallon Antifreeze, belts for blowers
Hoovers Garage	\$20.30	Lawn mower blade
Wal-Mart	\$108.95	4 pair of gloves, rubber boots, case of water, office supplies, glass and floor cleaner
Grainger	\$285.36	Paper towels and c-fold towels for the plant
State Chemical	\$491.29	Lube spray, Bee spray for plant
Ebensburg MGS 230	\$260.75	Diesel for portable pumps, valve project
MXU Water Meters	\$6,133.0	As per Kelly's request

Caps For WWTP	Contract Total per Year	May 2023	Contract year to date	Remaining Balance
Maintenance Cap	\$25,691.76	\$8,715.99	\$11,400.72	\$14,291.04
Sludge	\$84,782.76	\$3,470.87	\$16,593.98	\$68,188.78

## Health & Safety

There were no accidents in the month of May. Personnel have worked 6694 Days (18 years 2 month) without an accident/injury.

### Inframark Training and Presentations

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

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## Personnel

<b>Name</b>	<b>Title</b>	<b>Wastewater Operator Certifications</b>
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
Jake Dumm	Operator in Training	

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May monthly report for WTP



June 26, 2023

Ebensburg Borough  
300 West High Street  
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Dear Authority Members,  
Inframark is pleased to submit the May 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



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## Executive Summary

During the month of May, the Ebensburg water treatment plant treated 27,967,000 gallons of reservoir water. This equates to an average of 902,161 gallons per day. The table found in plant operations of this packet showcases past month's historical average flows. Annual monthly flow comparisons are not representative in May due to Nanty Glo purchasing in May 2022.

An average of 57,839 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

Inframark staff replaced a 120V relay and a check valve on a 2-inch sump pump in the basement level.

Reviewed Nanty Glo's bill for accuracy of flow totals.

Submitted EMA's 2022 consumer confidence report certification to Pennsylvania DEP.

Annual calibration/verifications were completed on flow meters at the WTP facility. During this time Inframark offered to assist with ensuring the meters in EMA's distribution system were also calibrated for 2023. Hillcrest and Ogden flow meters received calibration/verification for 2023.

Inframark staff replaced caustic chemical feed line and equipment due to failure.

On May 24<sup>th</sup> PA DEP collected raw water samples to begin monitoring for cyanotoxins in the raw water source. There were no detects in the samples collected.

On May 24<sup>th</sup>-25<sup>th</sup> Pennsylvania DEP conducted a full sanitary inspection of EMA's water treatment plant and distribution system. The inspector was very pleased with the overall cleanliness and upkeep of the EMA's water treatment facility. One minor deficiency that was noted was the lack of a carbon monoxide detector in the generator room at the WTP. Another minor deficiency that was noted was damaged perimeter fencing at the elevated tank site. Inframark staff has installed a carbon monoxide detector and a fencing company has been contacted to repair the perimeter fence at the tank site. The inspector was very happy to see the collaboration between Inframark and Josh during his first state distribution inspection. Overall, the inspection went really well with no violations noted.

Inframark would like to thank the borough maintenance crew for cutting the grass at the WTP facility prior to EMA's state inspection.

On May 26<sup>th</sup> the upper reservoir stream flow valve was opened to satisfy the 270,000 gallon per day down stream flow requirement.

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## On the Radar

Service clarifiers

PA DEP inspection correctives

Air scour blower maintenance

## 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
- May 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 May, 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. Five samples were collected in May and all five 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
- Submitted CCR certification to PA DEP
- Completed annual flow meter calibrations
- Collected annual VOC, IOC, SOC, and RAD samples
- 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

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## Plant Operations

- Plant production has fluctuated through the month ranging from 786,000-1,070,000 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 also reduce the amount of backwash water used weekly
- 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
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
May, 2023	902,161	27,967,000	0

## Maintenance & Repair

Inframark staff completed 88 work orders in the month of May

- Caustic pump equipment replacement
- Greased DAF recycle pump
- Greased DAF scraper
- Fire extinguisher inspection
- SCBA inspections
- Ladder 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
- Monitored filter bed expansion
- Cleaned lagoon vault
- Cleaned facility

## Financial Update

### Maintenance Expenditures

Vendor	Expense	Description
Heritage Environmental	\$502.00	Hydro 250 pH probe
USA Blue Book	\$300.18	Chemical feed equipment/check valve
Ace Hardware	\$136.00	Plumbing fittings for sink and sump line
Scanlan Electric	\$139.42	120v relay for sump pump
Home Depot	\$185.99	Chemical pump mounting clamps/electrical/lighting
Long Barn	\$25.65	Faucet plumbing

### Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,522.00	\$24,352.41	\$1,289.24	\$23,063.17

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## Health & Safety

There were no accidents in the month of May. Personnel have worked 1,216 days (3 years 5 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Lock out tag out 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