

Ebensburg PA Municipal Authority

July 2022 Management, Operations & Maintenance Report

August 22, 2022



Summary

During July, Inframark continued to work toward safe and compliant operations. The Ebensburg Wastewater Treatment Plant treated 20.582 million gallons in the month of July.

Critical Issues

Projects

Project	Status	Priority Level	Approval	Est. Complete Date
Centrifuge main bearings on unit replaced Operating very well	Complete	High	Yes	July 11,2022

Operations

NPDES Permit Compliance

1. Please review the following tables that summarize NPDES reporting criteria for July 2022
2. There were no permit violations for the month July 2022

Influent Parameter	Average	Min	Max	Limit	Excursion
Influent Flow (MGD)	.664	.448	1.239	NA	NO
BOD5 (mg/L)	168.0	157.0	180.0	NA	NO
BOD5 Load (Lbs.)	970.0	831.0	1,229.0	NA	NO
TSS (mg/L)	94.0	44.0	152.0	NA	NO
TSS Load (Lbs.)	526.0	249.0	765.0	NA	NO

Effluent Parameter	Average	Min	Max	Limit/IMax	Excursion
CBOD5 (mg/L)	2.1	1.9	2.3	37.5 / 50	NO
CBOD5 Wkly Avg (mg/L)	2.1	1.9	2.2	37.5	NO
CBOD5 Load (bs)	12.0	10.0	16.0	417 / 626	NO
CBOD5 Load Wkly Avg (Lbs)	12.0	11.0	13.0	417	NO
TSS (mg/L)	1.3	0.9	2.1	45 / 60	NO
TSS Wkly Avg (mg/L)	1.3	1.0	1.5	45	NO
TSS Load (Lbs)	8.0	5.0	14.0	501	NO
TSS Load Wkly Avg (Lbs)	8.0	5.0	10.0	751	NO
Eff pH (SU)	7.47	7.35	7.59	6 / 9	NO
Eff DO (mg/L)	8.72	7.92	9.32	Min 6	NO
Fecal (CFU/100 mL)	110.0	72.0	174.0	10,000	NO
Fecal (CFU/100 mL) GE MEAN				2000	NO

Maintenance & Repair

Preventive

- Made daily equipment checks and plant rounds several times a shift
- Plant safety inspection complete for the month
- Ran centrifuge weekly
- Cut grass and weed eat around plant
- Swept and mopped control building floors weekly
- Pulled mixers in all SBR basins changed oil and inspected
- SBR decanters greased for the month

Work Order Statistics 07/01/2022 To 07/ 31/2022

****The number closed in this time whether they were due in this time or some other time period.**

Number of Preventative WO's that were due	230
Number of Corrective WO's that were due	0
Number of Skipped WO's that were due	0
Total Number of WO's that were due	230
Number of Preventative WO's that were closed**	230
Number of Corrective WO's that were closed**	0
Total Number of WO's that were closed**	230
Number of Preventative WO's still open	0
Number of Corrective WO's still open	0
Total Number of WO's still open	0

Performance Metrics

July 2022	Daily Average Flow (Gallons)	Monthly Flow (Gallons)	Single Day Max Flow (Gallons)
Wastewater Treated	664,000	20,582,000	1,239,000

Sludge

Hauled to Land Fill	9.557 Tons
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Financial Update

Caps	Monthly Cap	July 2022	Contract Year to Date	Remaining Balance
Maintenance Cap	\$1,914.47	\$1,683.63	\$9,023.84	\$14,871.40
Sludge Cap	\$6,317.77	\$4,088.38	\$24,188.35	\$54,666.05

Maintenance Expenditures

Vendor	Expense	Description
Long Barn	\$40.07	Lumber for blocking up centrifuge
EXXONMOBIL	\$23.45	Mower fuel, weed eater
Lee's Hardware	\$19.24	Fittings to repair water line in basement
Ace Hardware	\$232.80	Pvc Fittings, drain opener, weed killer, garden hose, drill bits, toilet seat
Lubrication Engineers	\$425.76	Hydraulic fluid for centrifuge
EXXONMOBIL	\$21.27	Mower fuel, weed eater
Sheetz	\$23.20	Mower fuel, weed eater
EXXONMOBIL	\$24.83	Mower fuel, weed eater
Walmart	\$62.37	Battery backup supply, markers
Sheetz	\$24.80	Mower fuel, weed eater
Ebensburg NAPA	\$466.33	Belts for blowers
E-Rigging	\$106.68	Lifting straps for centrifuge
Lubrication Engineers	\$212.83	Blower oil
Total	1,683.63	

Health & Safety

- 1) Through the end of July, Inframark Ebensburg employees have worked 6,390 days without a lost time injury or recordable.
- 2) Held daily tailgate meetings with staff.

Personnel

Name	Title	Wastewater Operator Certifications
Jerry Shupe Jr.	Vice President, Mid-Atlantic Region	
Mike Montgomery	Plant Manager	PA Class A, E Subclass 1,2,3,4
Sharon Burkett	Lab Manager	PA Class A, E Subclass 1,2,3,4,5
Randy Lauer	Operator	PA Class A, E Subclass 1,2,3,4
Ryan Lanzendorfer	Operator in Training	None
Kyle Smiley	Operator in Training	None

Appendix

July's 2022 Discharge Monitoring Report is available upon request.

Michael J. Montgomery
Plant Manager

Ebensburg Municipal Authority

Effluent Quality and Permit Compliance for

[July] Monthly Report [08/22/2022]

Operations

- ✓ Plant returned 20.582 million gallons of clean water to Howells Run
- ✓ All tests and operational requirements were met for July

Maintenance & Repair

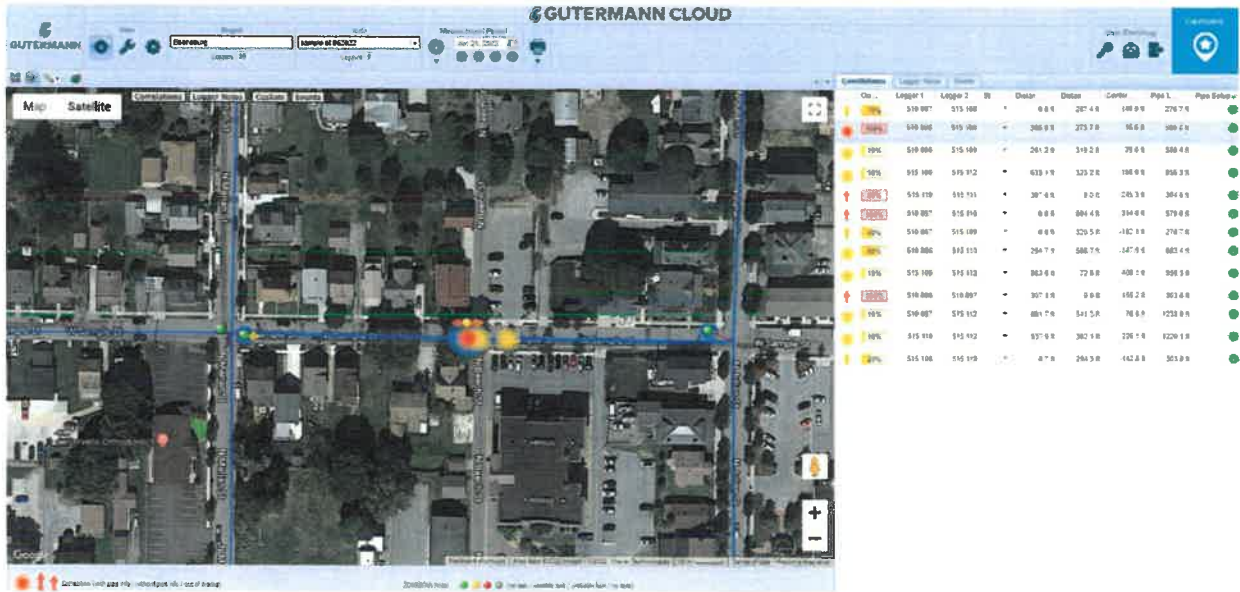
- I. Made daily equipment checks and plant rounds several times a shift
- II. Plant safety inspection complete for the month
- III. Ran centrifuge weekly
- IV. Cut grass and weed eat around plant
- V. Swept and mopped control building floors weekly
- VI. Pulled Mixers in all SBR tanks changed oil and inspected
- VII. Centrifuge main bearings replaced on unit

Caps	This Month	Contract Year to Date	Remaining Balance
Maintenance Cap	\$1,683.63	\$9,023.84	\$14,871.40
Sludge Disposal Cap	\$4,088.38	\$24,188.35	\$54,666.05

Michael J. Montgomery
Plant Manager- Ebensburg WWTP

Ebensburg Municipal Authority

July monthly report for WTP



August 22, 2022

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the July 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 July, the Ebensburg water treatment plant treated 23,570,000 gallons of reservoir water. This equates to an average of 760,323 gallons per day. The table found in plant performance of this packet showcases past month's historical average flows.

An average of 57,520 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

There was one power outage during the month and staff was able to get the plant back online in a timely manner.

Quarterly requirements involving plant shut down capabilities were tested and found to be operating properly.

Lead and Copper bottles with sampling procedures have been distributed to selected residents within the distribution system. Results from these samples will be used to determine lead and copper compliance for the 2022 monitoring schedule.

Over the past few months Inframark has been performing a complimentary leak detection service for Ebensburg. All leak detection equipment has been returned to the borough due to expiration of agreement. Five leaks have been discovered and communicated to the public works director with one repaired. In addition to these leaks, our weekend operator discovered a visual leak (south center street) over one weekend in July and we notified the public works director of the leak.

Inframark met with Stiffler McGraw to discuss current permits for chemical injection points and chemical storage. We also discussed rebuilding the raw water valve.

Inframark would like to thank the Borough employees who came out and took care of the grass at the water treatment facility. We appreciate their hard work.

On the Radar

Lagoon pond sludge removal

Rebuild raw water valve

Cleaning and painting of the elevated tank (In order to complete this project normal operations will need altered to maintain pressures in the distribution system. Valves will need exercised to ensure pressures in the distribution do not become excessive causing main breaks or to low causing customer complaints.)

Service clarifiers

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.
- Monthly Compliance reporting for August is being compiled and will be submitted to PA DEP no later than September 10th, 2022.
- Disinfection by-product samples were collected July 5, 2022. Sample site 701 results for Haloacetic acids (HAA5) were above the MCL. Inframark notified PA DEP and completed a Tier II public notice that was issued August 5, 2022.
- Lead and Copper sample collection.
- 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 July, 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 at equal to or greater than 0.20mg/L free chlorine. Four samples were collected in July 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.
- Collected and documented comparative grab samples to ensure accuracy of continuous turbidimeters and pH analyzers.

Plant Operations

- The plant is currently treating 750,000 – 800,000 gallons of water per day
- Backwash flow rates are being monitored daily
- Filter media is inspected daily for irregularities
- Online instrument flow is verified multiple times daily
- Flows and chemical feed rates are adjusted daily to meet system demands
- Downstream flow is monitored and adjusted when needed
- Clarifiers are continuously monitored for sludge content and settling capability
- Lagoons are filling and discussions are needed to determine this process

Past month's historical average flows showcasing how water leak repairs have decreased water demand.

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

Maintenance & Repair

Borough summer maintenance crews have completed knocking down the overgrown grass around the treatment facility and have been performing mowing as needed.

Inframark staff completed 67 work orders in the month of July

- Lubricated blower motor
- 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
- Remove 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
- Monitored filter beds for deficiencies
- Cleaned facility

Financial Update

Maintenance Expenditures

Vendor	Expense	Description
Kaza Fire Equipment	\$58.72	Annual fire extinguisher inspection
Tractor supply	\$33.27	Bearing grease

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,010.00	\$19,701.55	\$91.99	\$19,609.56

Health & Safety

There were no accidents in the month of July. Personnel have worked 912 Days (2 years 6 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Work place safety awareness

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
Ryan Lanzendorfer	Operator in Training	