

Ebensburg PA Municipal Authority

June 2022 Management, Operations & Maintenance Report

July 25, 2022

Summary

During June, Inframark continued to work toward safe and compliant operations. The Ebersburg Wastewater Treatment Plant treated 20.832 million gallons in the month of June.

Critical Issues

Projects

Project	Status	Priority Level	Approval	Est. Complete Date

Operations

NPDES Permit Compliance

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

Influent Parameter	Average	Min	Max	Limit	Excursion
Influent Flow (MGD)	.694	.528	1.027	NA	NO
BOD5 (mg/L)	161.0	150.0	173.0	NA	NO
BOD5 Load (Lbs.)	1,029	754.0	1,482	NA	NO
TSS (mg/L)	133.0	60.0	296.0	NA	NO
TSS Load (Lbs.)	802.0	376.0	1,493	NA	NO

Effluent Parameter	Average	Min	Max	Limit/IMax	Excursion
CBOD5 (mg/L)	2.1	1.9	2.4	37.5 / 50	NO
CBOD5 Wkly Avg (mg/L)	2.1	1.9	2.2	37.5	NO
CBOD5 Load (bs)	13.0	9.0	18.0	417 / 626	NO
CBOD5 Load Wkly Avg (Lbs)	13.0	10.0	15.0	417	NO
TSS (mg/L)	1.1	0.8	1.5	45 / 60	NO
TSS Wkly Avg (mg/L)	1.1	1.0	1.2	45	NO
TSS Load (Lbs)	7.0	4.0	9.0	501	NO
TSS Load Wkly Avg (Lbs)	7.0	6.0	8.0	751	NO
Eff pH (SU)	7.20	7.12	7.31	6 / 9	NO
Eff DO (mg/L)	9.11	7.67	9.85	Min 6	NO
Fecal (CFU/100 mL)	79.0	21.0	166.0	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 basin #4 due to debris caught in blades

Work Order Statistics 06/01/2022 To 06/30/2022

**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	198
Number of Corrective WO's that were due	2
Number of Skipped WO's that were due	0
Total Number of WO's that were due	198
Number of Preventative WO's that were closed**	196
Number of Corrective WO's that were closed**	2
Total Number of WO's that were closed**	198
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

June 2022	Daily Average Flow (Gallons)	Monthly Flow (Gallons)	Single Day Max Flow (Gallons)
Wastewater Treated	690,044	20,832,000	1,027,300

Sludge

Hauled to Land Fill	9.544 Tons
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Health & Safety

- 1) Through the end of June, Inframark Ebensburg employees have worked 6,358 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 Manger	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

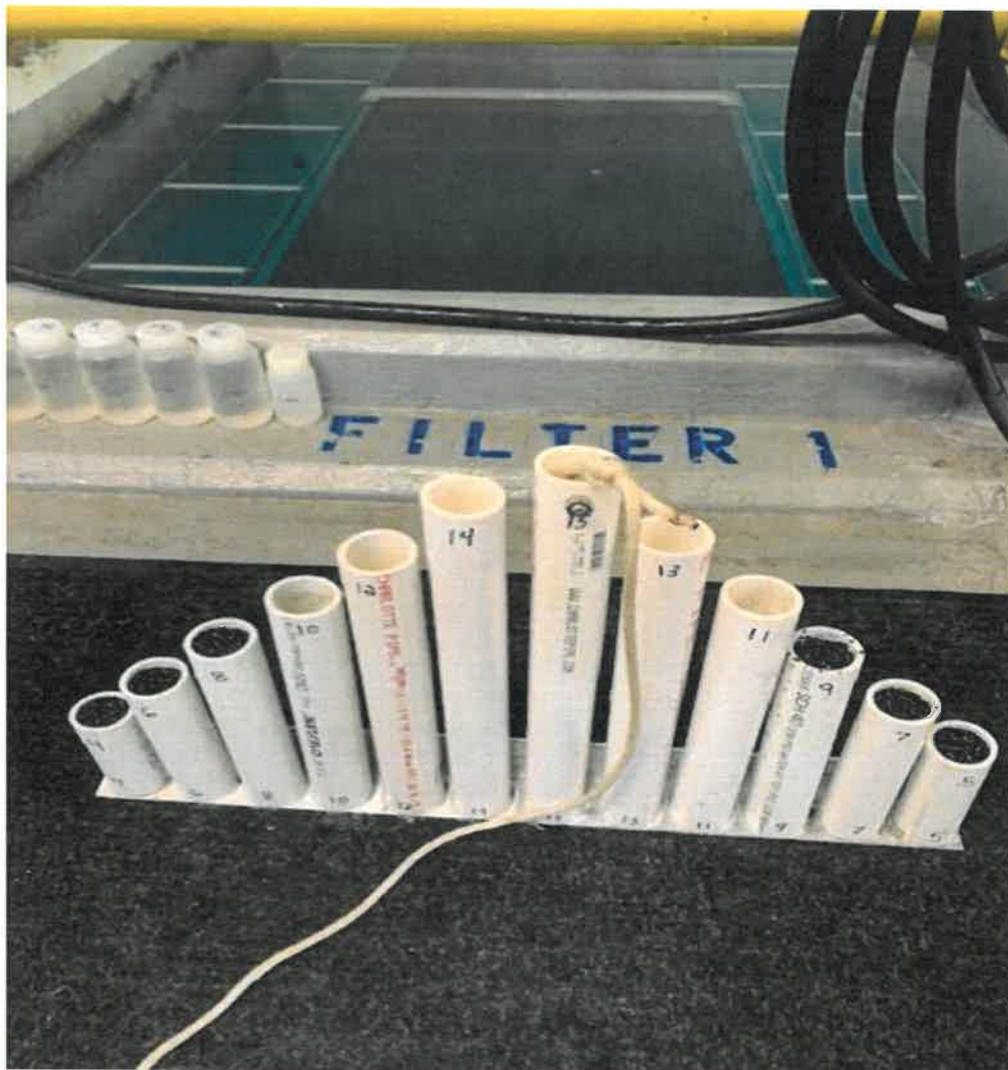
Appendix

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

Michael J. Montgomery
Plant Manager

Ebensburg Municipal Authority

June monthly report for WTP



July 25, 2022

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the June 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 June, the Ebensburg water treatment plant treated 23,593,000 gallons of reservoir water. This equates to an average of 786,433 gallons per day. This number is down from previous months due to some recent leak repairs in the distribution system. The table found in plant performance of this packet showcases past month's historical average flows and how the recent water leak repairs have decreased the daily demand.

There were two power outages during the month. The outages caused the DAF recycle pump motor VFD to fault. The VFD was able to be reset only causing mild settled turbidity issues. One issue of concern that was noted during the outage was the inability of the lower reservoir VFD to start or stop automatically. This is a relatively new concern that came to light as we have only started using the lower reservoir beginning May 1, 2022.

On June 13th the director of recreation Dirk Johnson called with some concerns about recent lab results and difficulties maintaining chlorine levels in the public swimming pool. I met Mr. Johnson at the pool to help trouble shoot the problem. After observing the process, we determined the chlorine feed pump had failed. We also determined some critical components were missing that prevent back siphonage when applying chemicals. Inframark provided a few of the components needed to properly plumb the chemical feed system and installed a spare pump from the WTP. We were able to get the pool back to normal operating conditions within 24 hours. Mr. Johnson ordered a new pump that we installed June 27th.

On June 16, 2022, representatives from the Department of Environmental Protection (DEP) Bureau of Safe Drinking Water conducted a site visit at the Ebensburg WTP to collect a sample to be analyzed for the cyanotoxins in the raw source water. I have included information along with this report regarding the bureau of safe drinking water cyanotoxin monitoring plan.

Inframark conducted a hold study on the water that is produced from the Ebensburg water treatment plant. The goal of this study was to determine if the water produced at the Ebensburg Water treatment plant could maintain and meet all the water quality parameters after 10 days of age. We analyzed chlorine, temperature, and pH in-house daily and Fairway labs conducted the disinfection by-product analysis. The results indicate that the water produced at the Ebensburg WTP can meet all water quality parameters even after 10 days.

On June 23 Inframark's senior technical manager Mr. Dwayne Lowry and I presented a power point presentation to the borough manager and Stiffler McGraw. The presentation provided several options for the authority to consider that could remedy the reoccurring disinfection by-product issues. If there are any questions or concerns about these recommendations, we would be happy to have further discussions.

On the Radar

Inframark's recommendations to Ebensburg EMA and Stiffler McGraw to resolve the Disinfection By-Products in the distribution system.

New raw water controlling valve to replace current worn valve

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 July is being compiled and will be submitted to PA DEP no later than August 10th, 2022.
- Samples were collected for annual testing of Inorganic Compounds (IOC's), Volatile Organic Compounds (VOC's), and Synthetic Organic Compounds (SOC's). All sample results were either non-detects or found to be well below the Maximum Contaminate Level (MCL).
- 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 June, 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 June and all four samples were 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.
- Second quarter filter evaluation was completed on filter #1. The filter was found to be in excellent condition meeting all design specs.

Plant Operations

- The plant is currently treating 750,000 – 850,000 gallons of water per day
- 2021 Chapter 110 reports have been submitted to PA DEP
- 2021 Consumer confidence report or water quality report has been submitted to PA DEP
- 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
- Notified Stiffer McGraw of Ogden tank leak

Past month's historical average flows and how the recent water leak repairs have decreased the daily 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

Maintenance & Repair

Borough summer maintenance crews have been working on knocking down the grass around the facility and have completed about 50% of the area.

Inframark staff completed 75 work orders in the month of June

- Lubricated blower motor
- Ladder inspections
- Greased DAF recycle pump
- Greased DAF scrapper
- Annual fire extinguisher inspection
- Installed new battery backups for SCADA
- 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
- Cleaned lab glassware

- Monitored filter beds for deficiencies
- Cleaned facility

Financial Update

Maintenance Expenditures

Vendor	Expense	Description
Ace Hardware	\$137.31	Keys, cement, anchors, metal screws, plumbing
Amazon	\$218.26	Battery Back up
LB Water	\$198.76	Sump pump
Harbor Freight	\$137.77	Shelving organizer
Kaza	\$36.04	SCBA cleaning pads
Home Depot	\$510.23	Lab fridge, pex fittings, spotlight, cup grinder
Tractor Supply	\$12.68	Stainless anchor bolts

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,010.00	\$20,952.60	\$1,251.05	\$19,701.55

Health & Safety

There were no accidents in the month of June. Personnel have worked 881 Days (2 years 5 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Lead and Copper SOP

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	