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November 21, 2023

Attn: Joni Scott
Clerk
Northport Leelanau Township Utility Authority, NLTUA

Project name: Northport
Project no: 378107CH

Subject: Monthly Operations Report

Dear Mrs. Joni Scott

This report covers our operations and maintenance activities for the month of October 2023.

Yours sincerely,

Mark J Huggard

Mark Huggard
Project Manager

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Copies to: NLTUA Board
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Executive Summary

This month's operations report highlights several key activities at the NLTUA facility. Inflow volumes for October 2023 exceeded those of the same period last year, primarily attributed to increased precipitation, with 3.4" compared to 1.4" in October 2022.

The annual biosolids report, submitted to EGLE, reflects zero dry tons applied, signaling a period without land application.

Operational enhancements include the installation of new door locks, replacing electronic keypad locks, and successful maintenance of the Landia mixer and RIB dosing valve.

A power loss incident prompted a thorough plant walkthrough, ensuring equipment functionality. Additionally, the replacement and commissioning of Kaesar blower #2 were completed by Air Components.

Safety measures were bolstered with the installation of fall protection netting at both effluent chambers, addressing accessibility concerns for staff. Jacobs, at no cost to NLTUA, facilitated this installation.

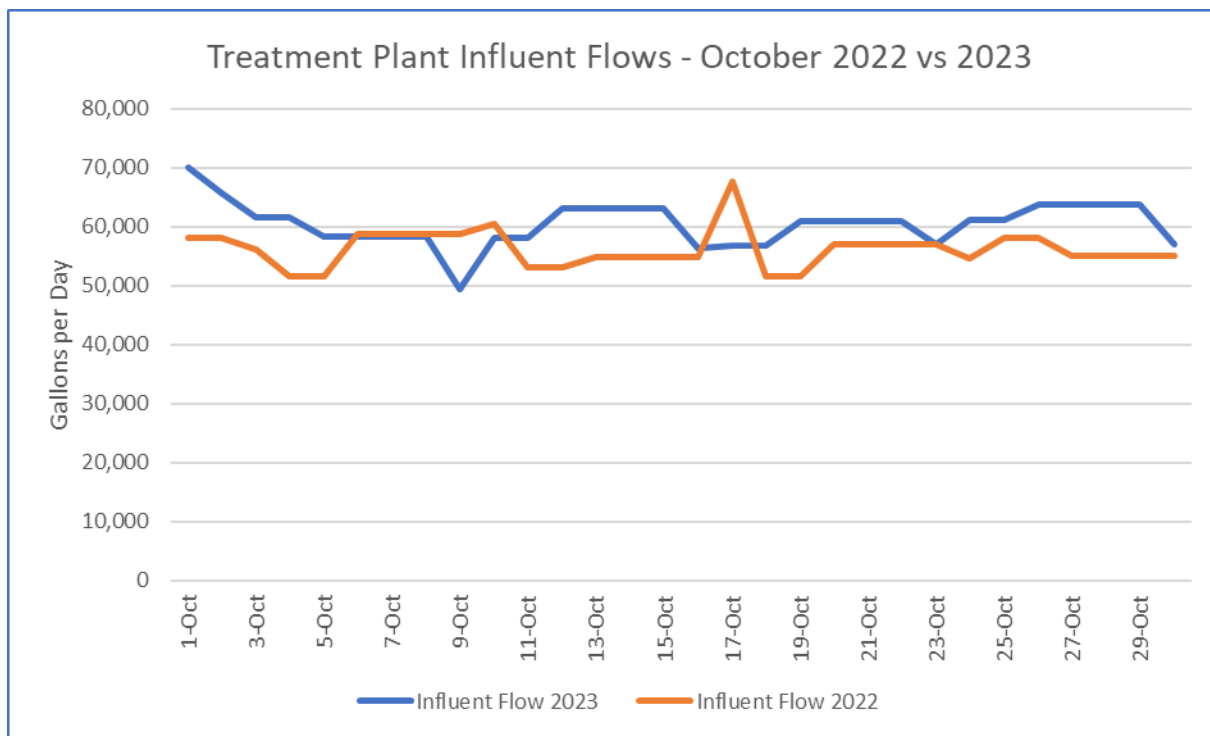
In the Collection System Operations and Maintenance section, annual manhole inspections are underway, expected to conclude by the end of November and we responded to one grinder pump alarm.

If there is anything you would like to see added to the monthly reports, please feel free to let us know.

Treatment Plant Operations and Maintenance

	November 23	Last Month	Last Year
Influent flow daily average, GPD	59,999	60,164	56,156
Monthly electrical usage, Kw Hrs*	32,503	24,027	33,334

The following graph compares the plant influent flows of the reporting month last year to that of 2023. Flows trended slightly higher than 2022 due to more precipitation. October of 2023 saw a total of 3.4" of precipitation compared to 1.4" in October 2022.



- We submitted the annual biosolids report to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) through their online reporting platform, MiEnviro. This report encompasses the reporting period from October 1st to September 30th each year and provides a comprehensive overview of the facility's biosolids analytical results, the amount of biosolids hauled, dry tons applied to the land, and field data. Because the facility did not need to land apply this reporting period a total of zero dry tons was reported. If you'd like to learn more about Michigan's biosolids program, please visit the

following link. <https://www.michigan.gov/egle/about/organization/water-resources/biosolids>

- New plant door locks were installed on all facility doors. The new locks replace the frequently failing and original electronic keypad door locks.
- We completed the semiannual Landia mixer maintenance. This task includes unit inspections, cleaning, oil and seal changes, greasing and confirmation of prop rotation.
- We replaced a failed dosing valve nut pin on rapid infiltration bed #1.
- We responded to an alarm call out due to a brief power loss on October 22nd. A full plant walkthrough was conducted, and all equipment confirmed operational.
- The contractor tasked with replacement of Kaesar blower #2, Air Components, installed and commissioned blower #2. The blower has been placed into operational rotation.
- Installed fall protection netting at effluent chambers 1 and 2. These hatches are frequently accessed by staff requiring staff to don fall protection while accessing. Due to limited rated fall protection anchor points, this practice was evaluated, and it was determined that installation of netting is the best option to mitigate the hazard and save time accessing these locations. The netting and installation were purchased and installed by Jacobs at no cost to the NLTUA.



Collection System Operations and Maintenance

Collection System

- Annual collection system manhole inspections began this month. We anticipate completing all inspections by end of November.

Lift Stations

- Nothing to report.

Grinder Pump Responses

Date	Location	Alarm/Issue	Resolution
10-16-23	12914 Northport Pt. Rd.	<ul style="list-style-type: none">• High level	<ul style="list-style-type: none">• Replaced control floats.• Removed grease from the wet well.• Installed a new O-ring on the pump discharge hub.

On The Horizon

Task	Update	Estimated time of completion
Annual manhole inspections	In process	End of November 2023
Monitoring well 7S repair/replacement	Prein and Newhof engineering working on replacement	End of November 2023
Settling basin engineering evaluation	NLTUA to consult their engineer	2023
Ferric chloride room day tank relocation	NLTUA to consult their engineer	2023
Quarterly Monitoring Well Sampling	1 st quarter 2024	February 2024
Annual settling basin cleaning	Scheduled	December 2023
Main lift station controller	Complete and commissioned April	Complete
7th St. station controller replacement	Complete and commissioned July	Complete
Replace failed VFD on mixer 7	Completed July 2023	Complete
Aeration blower #2 repair or	Commissioned by contractor and in	Complete

Financial Report

Location	October 2023	Comments
Repairs Spending Treatment Plant Current Month		
Repairs Spending Treatment Plant Year to Date	\$3,081.27	
Repairs Spending Residential Grinder Pumps Current Month	-	
Repairs Spending Residential Grinder Pumps Year to Date	\$26,370.11	
Repair Spending Collection System (lift stations/sewer) Current Month	-	
Repair Spending Collection System (lift stations/sewer) Year to Date	\$1,273.36	
Repairs Hours Treatment Plant Current Month	-	
Repairs Hours Treatment Plant Year to Date	-	
Repairs Hours Residential Grinder Pumps Current Month	31.00	
Repairs Hours Residential Grinder Pumps Year to Date	198.25	
Repair Hours Collection System (lift stations/sewer) Current Month	6.25	
Repair Hours Collection System (lift stations/sewer) Year to Date	77.25	
Total Repair Hours Current Month	37.25	
Total Repair Spending Current Month	-	
Total Repair Hours Year to Date	514.00	
Repairs Hours Budget Remaining (Limit 300 Hrs)	(214.00)	
Total Repair Spending Year to Date	\$30,724.74	
Repair Spending Budget Remaining (Limit \$8,000)	(\$22,724.74)	
Total Repair Hours 2022	679.50	
Total Repair Spending 2022	\$45,783.13	