

## NLTUA Operations Report – April 2023

**TO:** Chris Holton, NLTUA  
Joni Scott, NLTUA

**FROM:** Mark Huggard, Jacobs

**DATE:** May 22, 2023

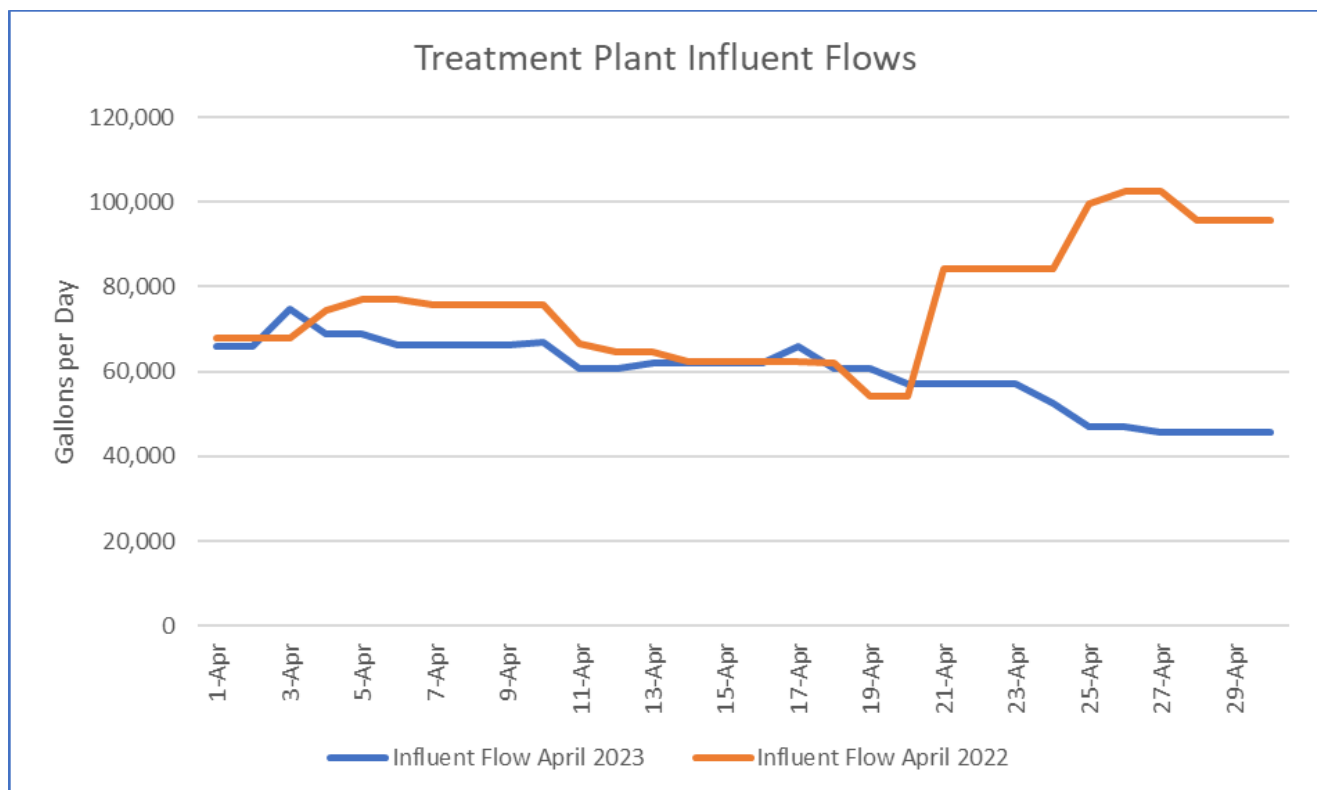
**COPY:** Nick Lenzi, Jacobs  
Andrew Waldron, Jacobs  
Justin Straub, Jacobs

This report describes our activities during the month of April 2023. If you require additional information that would make these monthly reports more useful to you, please let us know. Permit compliance report data is submitted to the Department of Environment Great Lakes and Energy (EGLE) electronically.

### Treatment Plant

	April	Last Month	Last Year
<b>Influent flow daily average, GPD</b>	59,676	64,692	75,932
<b>Monthly electrical usage, Kw Hrs*</b>	28,536	33,276	27,835

\* Note: Wind turbine is permanently out of service.



The above graph compares plant influent flows from April of last year to that of April 2023. The dramatic increase in flow seen last year was due to a metering issue that was resolved in early May 2022.

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We replaced the worn throw rope and buoy staged near basin #2.

Completed annual PFAs sampling of the biosolids and treatment plant effluent. Results will be reviewed and submitted via EGLE's MiEnviro reporting site upon receipt.

### **Lift Stations / Collection System**

Main lift station controls upgrade was completed by Windemuller electric. All station controls, redundancy and alarming were tested and confirmed operational.

The Northshore Dr. sewer lining project was completed on Friday April 28<sup>th</sup>. Treatment plant influent flows continue to trend downward following lining completion that began on April 24<sup>th</sup>.

### **Residential Grinder pumps**

As part of our due diligence to reduce repeat call outs to residential grinders we perform the following checks before leaving the site. Table 1 below summarizes our grinder pump responses. More details can be provided upon request.

- ✓ Tighten all control connections within control cabinet.
- ✓ Remove grease and debris from grinder tank.
- ✓ Remove all grease buildup from float switches.
- ✓ Verify all float switches operate properly and are positioned properly.
- ✓ Confirm proper pump operation.
- ✓ Verify alarm light is operational and audible alarm, if applicable.
- ✓ Inspect wet well components.
- ✓ Replace both the start and run capacitor.
- ✓ Inform homeowner of findings and what not to put in their sewer.

**Table 1: Grinder Pump Responses**

Date	Location	Alarm/Issue	Resolution
	No grinder pump responses in April	•	•

### **On the Horizon**

Task	Update	Estimated time of completion
Aeration blower #2 repair or replacement	PO issued to Contractor. Anticipated July 2023	2023
Main lift station controller replacement	Complete and commissioned April 2023.	Complete
7th St. station controller replacement	NLTUA approved upgrade on May 16 <sup>th</sup> . PO to Contractor	2023
Force main cleaning from main lift station to plant	Jacobs developing proposal	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	Scheduled for May	2023

**Financial Report**

Current Reporting Month	Apr-23	Comments
Repairs Spending Treatment Plant Current Month	\$ -	
Repairs Spending Treatment Plant Year to Date	\$ 1,289.07	
Repairs Spending Residential Grinder Pumps Current Month	\$ -	
Repairs Spending Residential Grinder Pumps Year to Date	\$ 9,739.70	
Repair Spending Collection System (lift stations/sewer) Current Month	\$ -	
Repair Spending Collection System (lift stations/sewer) Year to Date	\$ -	
Repairs Hours Treatment Plant Current Month	-	
Repairs Hours Treatment Plant Year to Date	-	
Repairs Hours Treatment Plant Current Month	-	
Repairs Hours Treatment Plant Year to Date	100.00	
Repairs Hours Residential Grinder Pumps Current Month	-	
Repairs Hours Residential Grinder Pumps Year to Date	38.50	
Repair Hours Collection System (lift stations/sewer) Current Month	13.00	
Repair Hours Collection System (lift stations/sewer) Year to Date	54.00	
Total Repair Hours Current Month	13.00	
Total Repair Spending Current Month	\$ -	
Total Repair Hours Year to Date	92.50	
Repairs Hours Budget Remaining (Limit 300 Hrs)	207.50	
Total Repair Spending Year to Date	\$ 11,028.77	
Repair Spending Budget Remaining (Limit \$8,000)	\$ (3,028.77)	Amount over limit
Total Repair Hours 2022	679.50	
Total Repair Spending 2022	\$ 45,783.13	

If you have any questions or concerns, please feel free to contact us.

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