

## NLTUA Operations Report – June 2023

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

**FROM:** Mark Huggard, Jacobs

**DATE:** July 14th, 2023

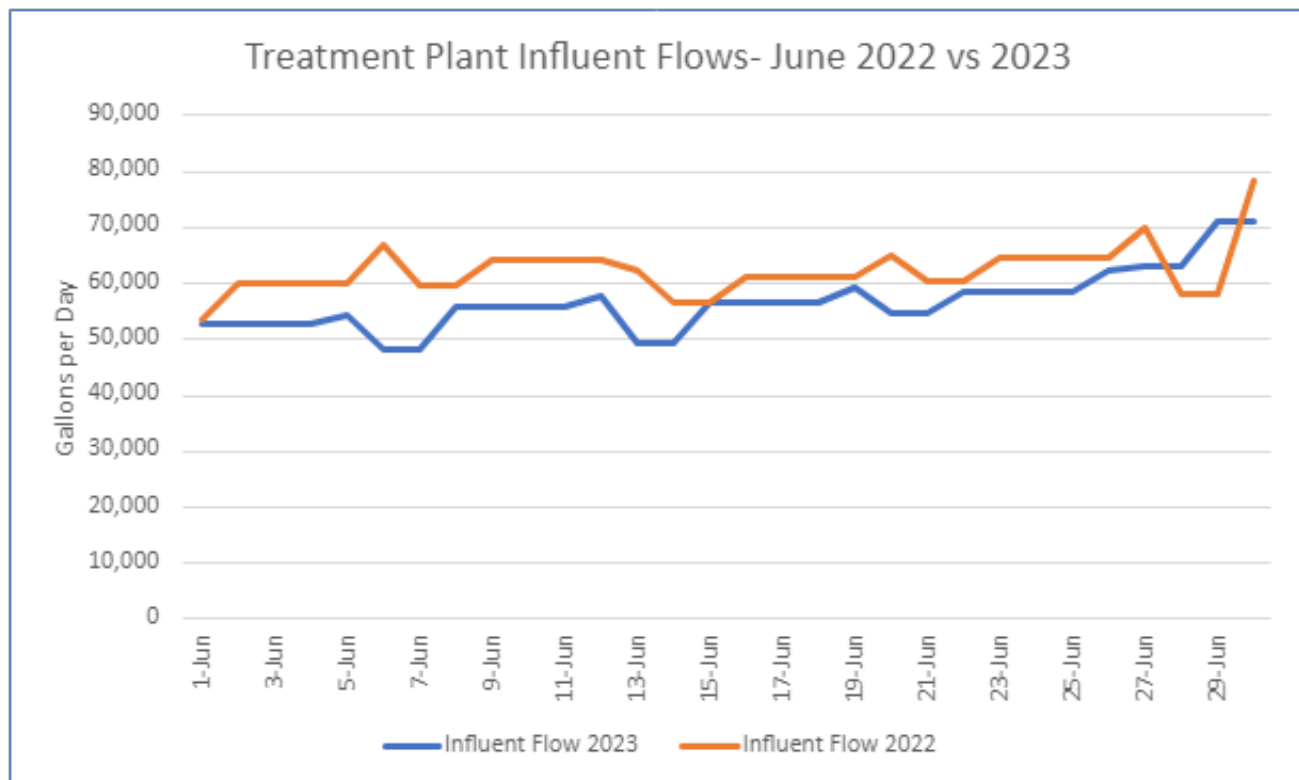
**COPY:** Nick Lenzi, Jacobs  
Andrew Waldron, Jacobs  
Justin Straub, Jacobs

This report describes our activities during the month of June 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

	June	Last Month	Last Year
<b>Influent flow daily average, GPD</b>	56,704	68,603	62,170
<b>Monthly electrical usage, Kw Hrs*</b>	23,944	27,977	24,296

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



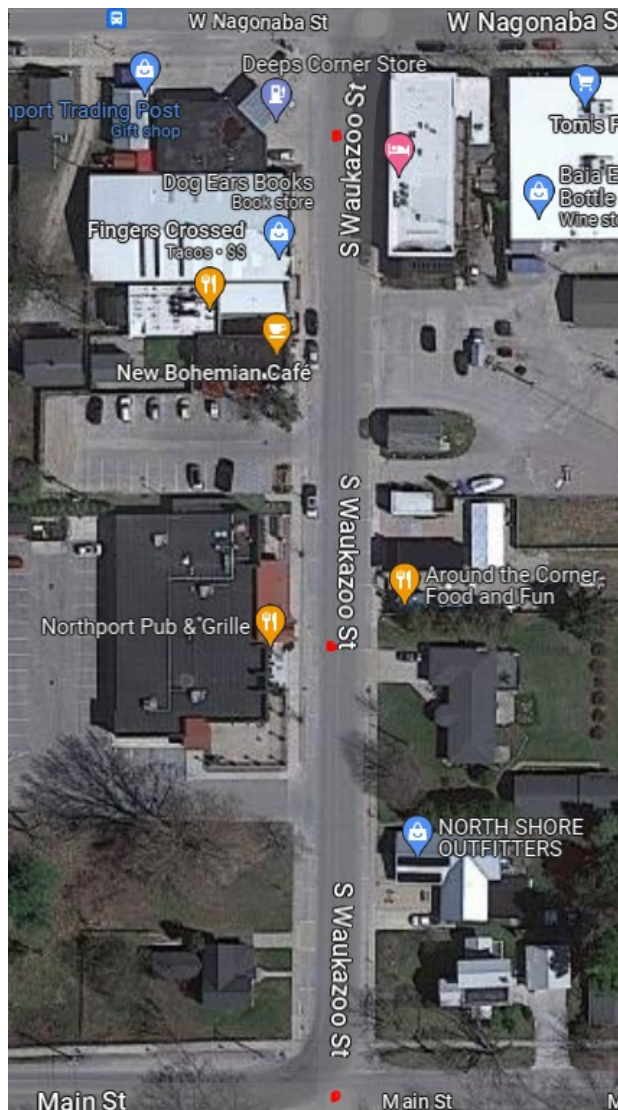
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The above graph compares the plant influent flows between June of last year and June of 2023. It shows a gradually increasing trend, which is historically typical leading up to the July 4th Holiday. However, in 2023, the plant flows are slightly lower compared to those of 2022.

### Lift Stations / Collection System

We completed the semi-annual grease inspections along Waukazoo Street. This task involves opening manholes along this section of the sewer system to check for any grease buildup that could obstruct the flow. If any issues are identified, the sewer is cleaned, and Village staff conducts additional inspections to identify potential sources of the grease. The following illustration indicates the location of the manholes inspected and the proceeding table provides further information on each location. All other system manholes are inspected annually, typically in the fall.

Manhole locations illustrated in red



Manhole Location	Findings	Photo
Waukazoo St. MH # 37	Free flowing no grease buildup	
Waukazoo St. MH # 35	Free flowing no grease buildup	
Waukazoo St. MH #29	Slight accumulation of material	

**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
6-9-23	13589 Northport Point Rd.	<ul style="list-style-type: none"> <li>• High level</li> </ul>	<ul style="list-style-type: none"> <li>• Replaced pump start capacitor</li> <li>• Clear pump obstruction</li> </ul>
6-18-23	13101 E. Paradesia Pt. Rd.	<ul style="list-style-type: none"> <li>• High level</li> </ul>	<ul style="list-style-type: none"> <li>• Power from the residence was off.</li> <li>• Replaced the pump run and start capacitors</li> </ul>

**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> . Contractor began work last week of June. Anticipated completion July 2023.	2023
Force main cleaning from main lift station to plant	Jacobs provided proposal for consideration	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	May completed	August 2023
Replace failed VFD on mixer 7	Completed	June 2023
Northport WWTP Annual Public Open House	Providing plant tours to the public	September 12 <sup>th</sup> , 2023

**Financial Report**

Current Reporting Month	Jun-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	\$ 1,252.90	
Repair Spending Collection System (lift stations/sewer) Year to Date	\$ 1,252.90	
Repairs Hours Treatment Plant Current Month	-	
Repairs Hours Treatment Plant Year to Date	-	
Repairs Hours Treatment Plant Current Month	8.00	
Repairs Hours Treatment Plant Year to Date	112.00	
Repairs Hours Residential Grinder Pumps Current Month	10.50	
Repairs Hours Residential Grinder Pumps Year to Date	67.25	
Repair Hours Collection System (lift stations/sewer) Current Month	-	
Repair Hours Collection System (lift stations/sewer) Year to Date	59.00	
Total Repair Hours Current Month	10.50	
Total Repair Spending Current Month	\$ 1,252.90	
Total Repair Hours Year to Date	126.25	
Repairs Hours Budget Remaining (Limit 300 Hrs)	173.75	
Total Repair Spending Year to Date	\$ 12,281.67	
Repair Spending Budget Remaining (Limit \$8,000)	\$ (4,281.67)	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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