

TO: Chris Holton, NLTUA
 Joni Scott, NLTUA

FROM: Mark Huggard, Jacobs

DATE: March 17th, 2023

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

This report describes our activities during the month of February 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

	February	Last Month	Last Year
Influent flow daily average, GPD	42,474	46,549	44,912
Monthly electrical usage, Kw Hrs	32,939	40,932	31,272

Quarterly monitoring well sampling was conducted on February 14th. Results followed historical trends and were submitted via EGLE’s MiEnviro reporting site.

The dissolved oxygen (DO) controllers were replaced at the treatment plant. The displays (installed 2008) were no longer readable preventing us from being able to adjust control parameters and performing probe replacements or calibrations. The new DO controller allows for multiple probe connections versus the previous single input controller. This allowed us to purchase one controller for both probes’ vs one controller for each.

Lift Stations / Collection System

We responded to a low well alarm at the main lift station on February 8th and found the pump stop float switch hung up on the pump electrical cord not allowing the float switch to activate and shut off the pump. The float switch location was adjusted, and several cycles were observed to verify proper function.

NLTUA is working with a sewer cleaning/televising contractor to clean and televise the Northshore Dr. sewer line. Information gained from televising this section of sewer pipe will aid in determining the correct repair approach.

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
2-3-23	9787 N. Manitou Trail	<ul style="list-style-type: none"> • Alarm light on 	<ul style="list-style-type: none"> • Replaced both start and run capacitors
2-3-23	571 South Shore Dr.	<ul style="list-style-type: none"> • Motor Overload 	<ul style="list-style-type: none"> • Replaced potential relay switch • Replaced corroded wiring and connections in the control panel • Replaced the pump
2-23-23	444 North Vincer Way	<ul style="list-style-type: none"> • Sewer backup in residence, no alarm on panel. 	<ul style="list-style-type: none"> • Breaker in house feeding the pump panel tripped. This resulted in no alarming function • Pump well was full of solids requiring the well to be pumped by a septic hauler in order to access equipment. There was also evidence of overflow which required reporting the estimated amount to EGLE in accordance with sanitary sewer overflow requirements. • Replaced start and run capacitors and verified proper function

On the Horizon

Task	Update	Estimated time of completion
Aeration blower #2 repair or replacement	PO issued to Contractor. Reached out to Air Components (blower supplier/installer) for blower replacement schedule and have not received a response as of 3-16-23.	2023
Main lift station controller replacement	PO issued to Contractor.	2023
7th St. station controller replacement	Obtaining updated proposal	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

Financial Report

Current Reporting Month	Feb-23	Comments
Repairs Spending Treatment Plant Current Month	\$ 1,060.00	\$1,060 - Purchased new 24vdc power supply
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	\$ -	
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 Residential Grinder Pumps Current Month	20.50	
Repairs Hours Residential Grinder Pumps Year to Date	30.50	
Repair Hours Collection System (lift stations/sewer) Current Month	5.50	
Repair Hours Collection System (lift stations/sewer) Year to Date	5.50	
Total Repair Hours Current Month	26.00	
Total Repair Spending Current Month	\$ 1,060.00	
Total Repair Hours Year to Date	36.00	
Repairs Hours Budget Remaining (Limit 300 Hrs)	264.00	
Total Repair Spending Year to Date	\$ 1,289.07	
Repair Spending Budget Remaining (Limit \$8,000)	\$ 6,710.93	
Total Repair Hours 2023	826.45	
Total Repair Spending 2023	\$ 16,154.42	

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

Mark Huggard | [Jacobs](#) | Project Manager
O: 231.922.4922 | M: 231.313.5592 | mark.huggard@jacobs.com
606 Hannah Ave. | Traverse City, MI 49686 | United States