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FROM: Mark Huggard, Jacobs

DATE: February 23rd, 2023

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 Andrew Waldron, Jacobs
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This report describes our activities during the month of January 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

	January	Last Month	Last Year
Influent flow daily average, GPD	46,549	53,205	47,979
Monthly electrical usage, Kw Hrs	40,932	37,266	35,995

We responded to the following two alarm call outs at the treatment plant:

1. On January 11th responded to blower failure alarms caused by a failed PLC power supply. The power supply was replaced, and the system was returned to normal operation.
2. On January 19th, we responded to an aeration blower #2 failure alarm. After several failed attempts to restart the blower, we placed blower #1 in service. Blower #2 is in process of replacement. Currently awaiting the contractor to schedule.

Lift Stations / Collection System

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
12-28-22	13300 E Circle Dr.	<ul style="list-style-type: none"> • High Level • Motor Overload 	<ul style="list-style-type: none"> • Cleared rag from grinder
1-24-23	413A Shawbwasung (M22)	<ul style="list-style-type: none"> • Motor Overload 	<ul style="list-style-type: none"> • Removed large quantities of dog hair from pump
1-30-23	9787 Manitou Trl.	<ul style="list-style-type: none"> • High Level 	<ul style="list-style-type: none"> • Replaced the run capacitor

On the Horizon

Task	Update	Estimated time of completion
Aeration blower #2 repair or replacement	PO issued to Contractor.	2023
Main lift station controller replacement	PO issued to Contractor.	2023
Hach SC 100 replacement	Unit installed	Complete
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
Main lift station re-lining	This project has been moved to 2024.	2024

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	6.00	
Repairs Hours Residential Grinder Pumps Year to Date	16.00	
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	11.50	
Total Repair Spending Current Month	\$ 1,060.00	
Total Repair Hours Year to Date	21.50	
Repairs Hours Budget Remaining (Limit 300 Hrs)	278.50	
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.

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