

SEWER ADMINISTRATORS REPORT LELAND TOWNSHIP SEWER SYSTEM AUGUST 2024

Prepared by Steve Patmore, Sewer Administrator – September 5, 2024
For September 2024 Sewer Commission and Township Board Meetings

Influent and Effluent readings for August are normal for this time of year.

The lagoon levels are in the normal range for this time of year. Current Freeboard = 5.8' (was 3' last year)

Effluent flows are being maintained to keep lagoon levels within operational limits.

Effluent Phosphorous Levels in July was 2.04 ppm – which represents the typical seasonal increase.

	CURRENT YEAR - 2024		LAST YEAR (2023)	
	August 2024	2024 YTD	August 2023	YTD 2023
Influent Flows	2.81	16.47	2.90	16.14
Effluent Flows	2.23	18.85	2.53	16.47

Flows in Millions of Gallons (MG)

SEWER OPERATIONS & CALL-OUTS (see operations report)

- Normal STEP Pump call-outs.
- Repaired STEP system forcemain at 208 W. Avenue A – Leland
- Several WWTP call-outs early in month, but better in late month
- Dosing pump cleaned off – eliminated alarms.
- Sludge pump discussions with manufacturer – new pressure gauges.
- Replacement STEP control panels fabricated by Windemuler Electric
- Restoration work at St. Mary's School around septic tank.
- Pumping at Leland Harbor Septic Tank.
- Power outage in Leland

ISSUES / PROJECT LIST

- Sewer System Maintenance and Operations – Restructuring still going well
- WWTP Phase failure protection & PLC surge protection.
- Replacement chamber for STEP pump at 3148 N. Manitou
- Drain beds (investigation, flushing, televising, jetting) we will be inspecting two leaking dosing pumps and replace if necessary.
- Influent Manhole – scheduled for replacement – during slower flow season.
- Researching radio-based monitoring system works – eliminate phone lines.

SYSTEM ADMINISTRATION

- Questions on connections and the sewer system in general, permits & building.
- Miss Dig staking requests – steady
- Several requests for connection information for new construction/additions.
- Sewer Billings
- Delinquent Accounts list.
- New Sewer Billing / Township Assessor computer installed – remote access
- Scheduling payment for work truck.

Leland Township Sewer Department

Maintenance, Improvements, & Repair Report

Sep 5, 2024

Report for the month: August 2024
Facilities: Leland Township Wastewater treatment plant
Certified Operator: Mitchell Gawrysiak

Emergency Callouts/ Repairs Made

- 8/1/24 Callout 2288 N. Manitou Trail. Replaced all four floats. They were defective mechanically and physically.
- 8/1/24 Callout 305 S. Main St. not a sewer issue.
- 8/2/24 Callout to the Harbor. Reset the alarm and tested the system, most likely a short high-volume occurrence caused this issue.
- 8/3-8/11/24 Steve covered. There were a few plant callouts, and a callout to 208 Ave A. He also covered rounds.
- 8/13-8/14/24 Took annual monitoring well samples and dropped them off at SOS Analytical for testing.
- 8/17/24 Power outage in Leland. The generator at the Duck Lake lift station did not transfer power back to the land line when it was restored. Further details are noted.
- 8/20/24 Removed and reinstalled filters soaking in CLR to the tertiary filter.
- 8/20-8/28/24 Callout 208 Ave A Replaced four floats, and two junction boxes. Rebuilt the bulkhead, and located and repaired a broken fitting at the curb stop. Williams and Bay assisted.
- 8/20/24 Checked 613 N. Lake for an odor complaint.
- 8/21/24 Located and assessed the septic tank at 211 Second St. per homeowner's request with Steve. Tank did not need pumping.
- 8/22/24 Located and assessed the septic tank at 500 Fourth St. per homeowner's request. Tank did not need pumping.
- Worked on diagnosing and repairing issues with the sludge pump to eliminate nuisance callouts.
- Deep cleaned the tertiary filter as needed.

Hydrogen Sulfide in ppm

	7/10/24	7/22/24	8/22/24	8/29/24
Popp Rd.	36	18	52	38
Narrows	0	0	0	0
Duck Lake	40	50	42	19
Thompson St	0	0	0	0
Terrace Ln.	64	129	55	59
Marina	0	22	0	6
Mill St	27	118	>200	38

Facilities data	July 2024	Aug 2024	Year to date	Units
Effluent	2.54	2.23	18.85	MG
Influent	3.3	2.81	16.47	MG
Ferric chloride	353.65	366.75	2,773.51	Gallons
Freeboard (ft)	7.8	5.8	N/A	Feet
Phosphorus	2.75	2.04	N/A	Mg/L