

SEWER ADMINISTRATORS REPORT LELAND TOWNSHIP SEWER SYSTEM JUNE 2024

Prepared by Steve Patmore, Sewer Administrator – July 8, 2024
For July 2024 Township Board Meeting.

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

The lagoon levels are below the normal range for this time of year. Current Freeboard = 9.7'

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

Effluent Phosphorous Levels in February was 0.61 ppm – which is close to the target of 0.5 ppm.

	CURRENT YEAR - 2024		LAST YEAR (2023)	
	June 2024	2024 YTD	June 2023	YTD 2023
Influent Flows	2.41	10.36	2.42*	9.79*
Effluent Flows	2.54	14.08	1.25**	11.65

Flows in Millions of Gallons (MG)

* estimated

** 2023 clarifier issue

SEWER OPERATIONS & CALL-OUTS (see operations report)

- STEP Pump call-outs.
- Collapsed septic tank at 101 Brooks St., – line repaired and tank replaced – caused back-up in sewer main.
- Replacement chamber for STEP pump at 3148 N. Manitou.
- Vent installed at Leland Harbor Lift Station.
- Regular monthly maintenance/cleaning of clarifier seems to be working.
- Regular cleanings of biofilter seems to be reducing alarms & improving phosphorous results

ISSUES / PROJECT LIST

- Sewer System Maintenance and Operations – Restructuring going well
- St. Mary’s School septic tank replacement.
- WWTP Phase failure protection, outdoor lighting, & PLC battery back-up.
- Drain beds (investigation, flushing, televising, jetting) we will be inspecting two leaking dosing pumps and replace if necessary. Broken pipe in Bed 12.
- H2S and Odor Control – EGLE reviewing request for additive – researching other alternatives. Continue pilot program.
- Influent Manhole – scheduled for replacement – during slower flow season.
- Asset Management Software was approved and is being ordered.
- Researching radio-based monitoring system works – eliminate phone lines.

SYSTEM ADMINISTRATION

- Questions on connections and the sewer system in general, permits & building.
- A few residential and commercial septic tank pumpings.
- Miss Dig staking requests – steady
- Houses under constructions being reviewed and measurements.
- Several requests for connection information – new construction/additions

Leland Township Sewer Department

Maintenance, Improvements, & Repair Report

July 4, 2024

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

Emergency Callouts/ Repairs Made

- 6/1/24 Callout 202 Ave A. The low-level float relay was defective. Windemuller replaced it with a new one.
- 6/3/24 Met Williams and Bay at Capital Dog and assisted them in diagnosing the flow issues. Further details documented. (PLUGGED GREASE TRAP) SP
- 6/10/24 Callout 512 West St. Steve was onsite. The alarm was off. Tested the floats, and resecured the stop float which could have caused the failure.
- 6/10/24 Callout 3148 N. Manitou Trail. Replaced a defective high-level float.
- 6/12/24 Called by the St Mary's custodian. He said the panel alarm was going off. I was able to talk him through it over the phone. Someone had turned the pumps off.
- 6/18/24 Repaired an accidentally damaged post and float electrical at 332 W. Main.
- 6/23/24 Plant callout. Sludge pump failed to start.
- 6/26/24 Callout 101 W. Brook St., collapsed septic tank. Further details are documented. REPAIRED SP
- 6/26/24 Callout to 3119 N. Manitou Trail. Septic was overflowing. SSO was reported to EGLE. Further details are documented. - CAUSED BY DEBRIS due to SEPTIC TANK SP
- 6/27/24 Callout high-well alarm at Terrace Lane lift station. Alarm was off when I got there. This was caused by the failed septic tank. Further details are documented.
- 6/30/24 Callout 3148 N. Manitou Trail. Replaced the pump and stop float. Further details are documented.
- Deep cleaned the tertiary filter as needed.

Hydrogen Sulfide in ppm

	5/13/24	5/28/24	6/17/24	6/28/24
Popp Rd.	39	59	78	145
Narrows	0	0	0	0
Duck Lake	52	86	93	100
Thompson St	0	0	0	0
Terrace Ln.	69	13	138	10
Marina	0	0	3	23
Mill St	2	0	98	200

Facilities data	May 2024	June 2024	Year to date	Units
Effluent	2.6	2.54	14.08	MG
Influent	2.1	2.41	10.36	MG
Ferric chloride	342.25	452.27	2,035.11	Gallons
Freeboard (ft)	9.8	9.7	N/A	Feet
Phosphorus	0.61	0.61	N/A	Mg/L