

SEWER ADMINISTRATORS REPORT LELAND TOWNSHIP SEWER SYSTEM JULY 2024

Prepared by Steve Patmore, Sewer Administrator – August 6, 2024
For August 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 = 7.8'
Effluent flows are being maintained to keep lagoon levels within operational limits.
Effluent Phosphorous Levels in July was 2.75 ppm – which represents the typical seasonal increase.

	CURRENT YEAR - 2024		LAST YEAR (2023)	
	July 2024	2024 YTD	July 2023	YTD 2023
Influent Flows	3.30	13.66	3.45	13.24
Effluent Flows	2.54	16.62	2.29	13.94

Flows in Millions of Gallons (MG)

SEWER OPERATIONS & CALL-OUTS (see operations report)

- Normal STEP Pump call-outs.
- Collapsed septic tank at 101 Brooks St., – line repaired and tank replaced.
- Replacement chamber for STEP pump at 3148 N. Manitou.
- Several WWTP call-outs.
- Replaced first septic tank at St. Mary's School.
- Repaired STEP system forcemain at 340 W. Main – Lake Leelanau

ISSUES / PROJECT LIST

- Sewer System Maintenance and Operations – Restructuring going well
- WWTP Phase failure protection & PLC surge protection.
- 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 approved Calcium Nitrate additive to system with monitoring guidelines.
- 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.
- 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 for new construction/additions.
- Sewer Permit for ADU addition.
- Sewer Billings

Leland Township Sewer Department

Maintenance, Improvements, & Repair Report

Aug 1, 2024

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

Emergency Callouts/ Repairs Made

- 7/1/24 Replaced the effluent pump at 3148 N. Manitou Trail.
- 7/2/24 Pumped and power washed the clarifier.
- 7/8/24 Callout to 340 W. Main. Repaired a defective sewer line in the driveway. Further details documented.
- 7/9/24 Worked with Williams & Bay replacing the septic tank at St. Mary's. Worked with Windemuller installed new conduit to the STEP chamber.
- 7/10/24 Callout 214 Cherry St. Adjusted the floats and resecured the float bracket.
- 7/15/24 Rented a mini-skid steer from TC Rentals. Made multiple repairs at various locations. Further details documented.
- 7/18/24 Installed an odor barrier mat at the Harbor lift station.
- 7/18/24 While gathering details for future work at 3148 N. Manitou Trail, I noticed the alarm was on. Replaced a defective stop float.
- 7/22/24 Plant callout. Cleaned the pre-filter on the tertiary filter.
- 7/23/24 Plant callout. Tertiary filter was still the issue. Deep cleaned the filter panels and removed and cleaned the spray nozzles.
- 7/30/24 Callout to the Leland Harbor. Had Williams and Bay pump the tank. Further details documented.
- 7/30/24 Pumped and power washed the clarifier.
- 7/31/24 Plant callout. Dosing pump 1 tripped the overload. Reset the overload.
- 7/31/24 Callout 309 N. Lake St. High-level float was bad. Repaired the conduit and replaced all 4 floats to eliminate splices in the wet-well.
- Deep cleaned the tertiary filter as needed.

Hydrogen Sulfide in ppm

	6/17/24	6/28/24	7/10/24	7/22/24
Popp Rd.	78	145	36	18
Narrows	0	0	0	0
Duck Lake	93	100	40	50
Thompson St	0	0	0	0
Terrace Ln.	138	10	64	129
Marina	0	0	22	0
Mill St	98	200	27	118

Facilities data	June 2024	July 2024	Year to date	Units
Effluent	2.54	2.54	16.62	MG
Influent	2.41	3.3	13.66	MG
Ferric chloride	452.27	353.65	2,406.76	Gallons
Freeboard (ft)	9.7	7.8	N/A	Feet
Phosphorus	1.16	2.75	N/A	Mg/L