



Lemoine Municipal Authority Wastewater Report

November 3, 2022

Dear Council / Authority Members:

- Reporting Month: **September 2022**
- Effluent violations: **No**
- Monthly EDMR submittal date: **October 25, 2022**
- Quarterly EDMR submittal date: **August 23, 2022**
- Annual EDMR submittal date: **November 17, 2021**
(Electronic Discharge Monitoring Report)

September 2022 Data Summary

<u>Parameter</u>	<u>Max</u>	<u>Min</u>	<u>Average</u>	<u>Permit Limit</u>
Flow (Gal.)	428,000	181,000	225,000	n/a
CBOD5 (mg/l)	2.8	<2.0	<2.1	25 avg 50 max
TSS (mg/l)	4.8	<4.0	<4.1	30 avg 60 max
Phosphorus (mg/l)	1.00	0.51	0.84	4.0 instant 2.0 avg
Ammonia (mg/l)	<0.1	<0.1	<0.1	Monitor & Report
Fecal Coliform (cfu)	100	12	36	2,000 (geo mean) 10,000 max
Total Residual Chlorine (mg/l)	0.36	0.14	0.23	0.5 avg 1.6 max
pH (S.U.)	7.91	7.06	n/a	6 to 9
Dissolved Oxygen (mg/l)	9.57	9.09	9.29	>5.0

- CBOD5- (Carbonaceous Biological Oxygen Demand)
- TSS- (Total Suspended Solids)

Biosolids

<u># of Loads</u>	<u>Wet Tons</u>	<u>Dry Tons</u>	<u>% Solids Range</u>
<u>1</u>	<u>13.61</u>	<u>3.55</u>	<u>26.1</u>

PA 1 Calls

<u>Routine PA 1 Calls</u>	<u>Emergency PA 1 Calls</u>
<u>25</u>	<u>2</u>

Routine Maintenance / Events

- Biosolids being hauled as generated to Cumberland County Landfill.
- Process control adjustments as required.
- Sampling and Lab Analysis.
- Daily operations ongoing including inspections, cleaning, testing and chemical replenishment.
- Ongoing completion of preventative maintenance schedule.
- Continue to implement NPDES (National Pollution Discharge Elimination System) permit.

Non-Routine Maintenance / Events

- Plant equipment maintenance.
- Monitoring changes made to control nutrient removal.
- Semi-Annual calibrations completed by Control Systems 21 on 10/27/2022.
- Annual Form 43 completed on 3/22/22. Biosolids testing for Cumberland County Landfill.
- Working with RETTEW on UV System Design.
- Annual Back flow testing @ Northside Station completed 9/21/22
- Digester diffuser installation completed 9/19/22

Collection System

- Ongoing preventative maintenance on trouble spots. (solids, grit, grease, problem areas)
- Working on yearly routine flushing.
- Manhole inspections.

WWTP Personnel Info, Classes, Accomplishments

- 2 of 3 plant personnel are Licensed Operators.
- PA 1 Call recognized Lemoyne WWTP personnel on having a 100% response rate.
- Bob Oakes took a Valves- Operation and Maintenance class worth 15 hours towards licenses.
- All plant personnel reviewed our EAP (Emergency Action Plan), and our SPCC/PPC (Spill Prevention, Control & Countermeasures / Preparedness, Prevention & Contingency) plan.
- Plant personnel attended Groundskeeping & Landscaping Safety on 3/24/22.
- Bob Oakes took Physics class worth 16 hours towards licenses.

Pending Issues

- Grit system not functioning properly due to being oversized. Not enough flow or velocity to work correctly.
- Second stage oxic tanks are not getting the amount of mixing needed since lowering the amount of air to the tanks to meet our nutrient requirements.
- Northside Station pulleys have been changed to speed up the pumps. GPM has increased. Pump adjustments and cleaning of check valves need to be completed when time permits.

If you have any questions, require more information, or wish to comment on the above information, please feel free to contact me.

Respectfully,

Robert Oakes
Wastewater Superintendent