



Lemoyne Municipal Authority Wastewater Report

July 7, 2022

Dear Council / Authority Members:

- Reporting Month: **May 2022**
- Effluent violations: **Yes**
- Monthly EDMR submittal date: **June 22, 2022**
- Quarterly EDMR submittal date: **May 25, 2022**
- Annual EDMR submittal date: **November 17, 2021**
(Electronic Discharge Monitoring Report)

May 2022 Data Summary

| <u>Parameter</u> | <u>Max</u> | <u>Min</u> | <u>Average</u> | <u>Permit Limit</u> |
|--------------------------------|------------|------------|----------------|--------------------------------|
| Flow (Gal.) | 1,022,000 | 272,000 | 398,000 | n/a |
| CBOD5 (mg/l) | <2.0 | <2.0 | <2.0 | 25 avg 50 max |
| TSS (mg/l) | <4.0 | <4.0 | <4.0 | 30 avg 60 max |
| Phosphorus (mg/l) | 3.32 | 0.57 | 2.32 | 4.0 instant 2.0 avg |
| Ammonia (mg/l) | 0.84 | <0.1 | <0.18 | Monitor & Report |
| Fecal Coliform (cfu) | 45 | 1 | 8 | 2,000 (geo mean) 10,000 max |
| Total Residual Chlorine (mg/l) | 0.75 | 0.17 | 0.37 | 0.5 avg 1.6 max |
| pH (S.U.) | 7.92 | 7.32 | n/a | 6 to 9 |
| Dissolved Oxygen (mg/l) | 10.02 | 9.26 | 9.7 | >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>5</u> | <u>72.26</u> | <u>14.67</u> | <u>18.8-21.3</u> |

PA 1 Calls

| <u>Routine PA 1 Calls</u> | <u>Emergency PA 1 Calls</u> |
|---------------------------|-----------------------------|
| <u>23</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 4/25/22.
- Annual Form 43 completed on 3/22/22. Biosolids testing for Cumberland County Landfill.
- Working with RETTEW on UV System Design.
- NPDES Draft permit posted for 30 day review/comment period.
- Permit Non-Compliance was a slightly raised Phosphorus average caused by newly licensed operator error. Operator has had verbal training.

Collection System

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

WWTP Personnel Info, Classes, Accomplishments

- 2 of 4 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 taking 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.
- Digester diffusers continue to clog. LMA Purchased new diffusers, awaiting back ordered parts for installation.
- 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.

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