



# Monthly Informational Report July 2023

Page 1

Daily Plant Capacity (peak)—66 MGD  
Collection System Maintained—484.78 miles

Storm Pumping Stations—3  
Lift Stations—27

**Precipitation Total: 6.36 inches\***  
\*Total taken from daily average of five rain gauges

- \* WWTP/Ross Road LS Solar Field: kick-off meeting held.
- \* Vinton Woods Stormwater Conveyance: completed box culverts and begin liner installation on north pond.
- \* 4th Street Sewer Realignment: water relocation completed

Monthly Reports Submitted to the Indiana Department of Environmental Management (IDEM)  
Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report

### Work Performed

- \* Removed algae from primary and secondary clarifier weirs.
  - \* Continue to pressure washed concrete structures and walkways throughout the plant.
  - \* Dropped and cleaned one of the primary clarifiers for routine maintenance.
  - \* Pumped down headworks wet wells to remove grit from the system.
  - \* Debris skimmed off of aeration basins.
  - \* Acid washed floor in the thickener building.
  - \* Fine screen channels flushed and exercised the gates.
  - \* 673,524 gallons of digested sludge from storage tanks dewatered for land application program and personnel assisted with loading sludge trucks.
- Necessary ground maintenance for the treatment plant was performed, daily equipment rotations continue, as well as record keeping and proper sampling procedures required by our NPDES permit.

## Operations

JULY	2023	2022
Wastewater Treated (MG)	534.8	481.6
Average % Solids Removed	96.7%	96.8%
Biosolids Generated (MG)	2.02 MG	2.20 MG
BOD % Removed	93.4%	95.8%
Cubic Ft. of Methane Produced (Million cubic feet)	2.46 ft <sup>3</sup>	2.26 ft <sup>3</sup>
Phosphorus	78.2%	82.0%
Ammonia Overall Treatment	97.3%	97.2%

## Laboratory

2650 Tests Performed in March

- 545 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1329 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 71 Plant and River samples for Ammonia
- 44 E.coli analysis on Plant and River samples
- 133 Total Solids and Volatile Solids tests on sludges
- 80 Industry and River samples for independent analysis
- 102 Phosphorous tests on Plant, River, and Ditch samples
- 124 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 5 TKN (total kjeldahl nitrogen)
  - \* 5 Nitrate
  - \* 5 Nitrite
  - \* 9 Total Nitrogen
- 55 Waste hauler samples were collected and checked

## Maintenance

### Work Performed at Treatment Plant

- \* Replaced pressure switch for water on #1 gravity belt thickener and replaced the head on #4 ferric pump in thickener building.
- \* Sump pump line in blower building repaired.
- \* Replaced #2 grit tank rotork for sluice gate.
- \* Repaired #1 storage tank pump.
- \* Fine screen dumpster trolley chain repaired.
- \* The disconnect for both grit tanks replaced.

### Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Installed #3 rebuilt pump and patched concrete for hoist support at Prairie Oaks.
- \* Phase monitor replaced at Wildcat Valley.
- \* Removed exhaust fans and replaced grating at Ross Road.

# Lafayette Renew

## Monthly Informational Report

July 2023  
Page 2

### Stormwater

STORMWATER MONTHLY NUMBERS

JULY	2023	2022	2023	2022	
Catch Basin Calls	17	3	Erosion Control Inspections	72	67
Sweeper Calls	10	12	Catch Basin Repaired	15	3
Sweeper Debris Removal (tons)	146	143	Catch Basins Cleaned	100	0
Stormwater Calls	4	0	Ft. of Storm Sewer Jet Clean	119	360

#### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* Maintenance performed on bio-swales at Veteran’s Memorial Parkway (VMP), Maple Point Drive, and Concord Road, on rain gardens at the County Courthouse and on North Street, and on Jeff High School Storm Park.
- \* Grounds maintenance performed at 20 City-owned properties.
- \* Storm sewer preventative maintenance performed in the area of: New York St. to Kossuth St. & 5th St. to 14th St.
- \* Clean sediment trap at Jeff Storm Park.
- \* Bio-swales and rain gardens sprayed for invasive plants.
- \* Continue investigation of 1129 Ocala Ave. stormwater sewer line.
- \* Replaced concrete washout at the plant.
- \* Repairs made to BMPs at Crosser Softball Complex.
- \* SWPPP inspection conducted at Traffic Dept.
- \* Preventative maintenance performed on pavers at North and Brown Streets.
- \* Personnel attended Stormwater Local Technical Assistance Program (LTAP) including a guided tour of the Jeff Storm Park.

### Surveillance

#### Performed Surveillance

**SIGNIFICANT:** Rea Magnet, Primient, DANA, and SIA.

**GENERAL:** none

#### Annual Industrial Pretreatment Inspections

none

#### GREASE TRAPS

Interior Inspection	33	Business Compliance Meeting	3
Exterior Inspection	54	Rough-in Inspection	2
Oil/Grit Separator Inspection	36	Under Slab Inspection	3
Plan Reviews	12	Final Inspection	1

#### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling and creek and ditch sampling was performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Personnel attended a PFA (polyfluoroalkyl) webinar.
- \* Site visit conducted at ZF, and Tate & Lyle.
- \* Preventative maintenance performed on Fire Station and Facilities rain gauges.
- \* Personnel contributed with SWPPP inspection at Fleet Maintenance Dept.
- \* Conducted a tour of Lafayette Renew with personnel from SIA.

#### Biosolids Land Application Program

- ◆ Biosolids hauled - none
- ◆ Volute press (landfilled) - 240.92 dry tons
- ◆ Soil sampling performed on permitted ground that biosolids were applied to.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

### Sewers

SEWER MONTHLY NUMBERS

JULY	2023	2022	2023	2022	
Backup Calls	16	7	Manhole Frames Raised	13	4
City Blockages	0	0	Ft. of Sewer Jet Cleaned	520	808
Sanitary Calls	7	9	Ft. of Sewer Jet Cleaned—PM	91,606	99,767
Odor Calls	0	3	Total Manholes Cleaned	374	426
Tap Inspections	112	38	Ft. of Sewer Televised	425	1,016
Sewer Locates	1,684	1,523	Ft. of Sewer Root Cut	0	0

#### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Clean catch basin areas.
- \* Sewer repair completed in the 600 block of Owen Street.
- \* Raised manhole frames on N. 18th Street from Schuyler Avenue to Greenbush Street.
- \* Assisted Waterworks Dept. with jet/vac work.
- \* Inspected manholes in Vinton Woods area.
- \* Catch basin repairs on Creasy Lane.