



## Monthly Informational Report

May 2024

Page 1

Daily Plant Capacity (peak)—66 MGD

Storm Pumping Stations—3

Collection System Maintained—484.78 miles

Lift Stations—27

Precipitation Total: 3.17 inches\*

\*Total taken from daily average of five rain gauges

- \* WWTP/RRLS Solar Field: site work at WWTP continues, site restoration done at Ross Road LS.
- \* Vinton Woods Stormwater Conveyance: work on punch list continued.
- \* Service Area 11B: progress meeting with contractors.
- \* 2023 Sanitary Sewer Rehab: lining in Golf Course began and completed.
- \* Three Packs project:
  - ◆ Coarse Bar Screen - one removed at plant
  - ◆ Underwood Collection System - installation of dry wells

### Monthly Reports Submitted to the Indiana Department of Environmental Management (IDEM)

Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report

## Operations

#### Work Performed

- \* Removed algae from primary and secondary clarifier weirs.
  - \* Debris removed from aeration basins and debris cleaned from fine screen conveyor system.
  - \* Investigated issues with one of the bleach pumps.
  - \* Dropped and flushed grit removal tanks.
  - \* Polymer lines cleaned and polymer pump flushed for the volute screw press.
  - \* Fine screen channels flushed and exercised the gates.
  - \* 474,332 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.

#### MAY

#### 2024

#### 2023

Wastewater Treated (MG)	551.6	499.8
Average % Solids Removed	97.2%	95.5%
Biosolids Generated (MG)	2.2 MG	2.1 MG
BOD % Removed	93.6%	94.6%
Cubic Ft. of Methane Produced (Million cubic feet)	3.38 ft <sup>3</sup>	2.96 ft <sup>3</sup>
Phosphorus	76.8%	80.5%
Ammonia Overall Treatment	97.7%	98.3%

## Laboratory

2461 Tests Performed in March

- 545 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 843 Total Suspended Solids and 496 Total Volatile Solids
- 139 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 126 Plant and River samples for Ammonia
- 40 E.coli analysis on Plant and River samples
- 144 Total Solids and Volatile Solids tests on sludges
- 17 Industry and River samples for independent analysis
- 178 Phosphorous tests on Plant, River, and Ditch samples
- 140 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 14 TKN (total kjeldahl nitrogen)
  - \* 23 Nitrate
- 66 Waste hauler samples were collected and checked

## Maintenance

#### Work Performed at Treatment Plant

- \* #1 coarse screen removed.
- \* Motor starters replaced in panel for 2B mixer for #2 digester and adjusted multiple valves in digester building.
- \* Replaced plug valve for #4 primary pump in tunnel.
- \* Installed ventilation on volute press in fine screen room.
- \* Exhaust fan motor in bleach building replaced.
- \* Leak on scum line repaired in the tunnel.

#### Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Motor started replaced for #1 pump at Twyckenham.
- \* Landscape at Wildcat Valley repaired from a water main break repair.

**Lafayette Renew**  
**Monthly Informational Report**  
 May 2024  
 Page 2

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## Surveillance

### Performed Surveillance

**SIGNIFICANT:** SIA, Primient, Tate & Lyle, Cargill, IPI, and Ice Cream Specialties.

**GENERAL:** Southwire

### Annual Industrial Pretreatment Inspections

SIA

#### GREASE TRAPS

Interior Inspection	48	Business Compliance Meeting	0
Exterior Inspection	85	Rough-in Inspection	1
Oil/Grit Separator Inspection	21	Under Slab Inspection	0
Plan Reviews	7	Final Inspection	2

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling and quarterly creek and ditch sampling was performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Site visit conducted at Foodliner.
- \* Maintenance performed on Columbian Park rain gauge.
- \* Personnel performed three Dental Office Inspections.

### Biosolids Land Application Program

- ◆ Biosolids hauled - 4.87 MG with average % solids of 3.14
- ◆ Volute press (landfilled) - 106.25 dry tons
- ◆ Field checks performed on permitted ground that biosolids were applied to.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

## Stormwater

### STORMWATER MONTHLY NUMBERS

MAY	2024	2023		2024	2023
Catch Basin Calls	7	6	Erosion Control Inspections	66	66
Sweeper Calls	12	15	Catch Basin Repaired	7	3
Sweeper Debris Removal (tons)	236	192	Catch Basins Cleaned	147	79
Stormwater Calls	3	2	Ft. of Storm Sewer Jet Clean	43	900

### 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 19 City-owned properties.
- \* Storm sewer preventative maintenance performed in the area of: Creasy Ln. to Park East Blvd. and Heather Dr. to Julia Ct.
- \* Working on Stormwater Pollution Prevention Plan &and Spill Prevention Control & Countermeasure updates for City dept.
- \* Replant rain gardens on North Street and Brown Street.
- \* Pave drain maintenance performed weekly on Brown Street.
- \* Sediment removed from roadside swale at Old 231 & Ortman Ln, regrade, seed, and blanket.
- \* Add new stone to gravel drive at Fairgrounds detention pond.
- \* Added dirt and stone around digester tank at the plant then seed and blanket.
- \* Continue maintenance and observation of pavers on S. 9th Street and Kossuth Street.

## Sewers

### SEWER MONTHLY NUMBERS

MAY	2024	2023		2024	2023
Backup Calls	17	8	Manhole Frames Raised	1	0
City Blockages	0	1	Ft. of Sewer Jet Cleaned	857	404
Sanitary Calls	6	9	Ft. of Sewer Jet Cleaned—PM	10,299	102,944
Odor Calls	0	1	Total Manholes Cleaned	52	614
Tap Inspections	21	63	Ft. of Sewer Televised	869	0
Sewer Locates	1,569	2,136	Ft. of Sewer Root Cut	0	254

### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Quarterly manhole checklist completed.
- \* Sewer repair at N. 13th Street and Cincinnati Street.
- \* Investigate sinkhole in the 1700 block of Pierce Street.
- \* Installation of new equipment for TV van.
- \* Work performed in correlation to heavy rain event.