

- \* WWTP Solar Field: WWTP put on-line
- \* Service Area 11B: sewer installation, excavation for lift stations, and installation of dewatering wells continues
- \* Three Packs project:
  - Aeration Tank Diffusers - removal of old and installation of new tanks (#5 and #6) continues
- \* Approved by BOW:
  - Prairie Oaks Permanent Bypass - Task Order 7 contract w/ Wessler 12/3
- \* Personnel completed CPR training and assisted with sludge trucks for the biosolids land application program.

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## Monthly Informational Report

December 2024

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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

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 weirs.
  - \* Debris removed from aeration basins.
  - \* Tanks for sodium hypochlorite and sodium bisulfite were cleaned and inspected.
  - \* Dropped one of the primary clarifiers for maintenance repair.
  - \* Completed some concrete replacement and sealing of cracks in concrete around the plant.
  - \* Dropped and flushed the grit removal tanks.
  - \* Cleaned fine screen conveyor system of debris buildup.
  - \* Fine screen channels flushed and exercised the gates.
  - \* 1,285,483 gallons of digested sludge from storage tanks dewatered for land application program.

|  | DECEMBER | 2024                 | 2023                 |
|--|----------|----------------------|----------------------|
| Wastewater Treated (MG)                            |          | 499.6                | 420.3                |
| Average % Solids Removed                           |          | 97.1%                | 96.7%                |
| Biosolids Generated (MG)                           |          | 2.29 MG              | 2.2 MG               |
| BOD % Removed                                      |          | 96.3%                | 96.6%                |
| Cubic Ft. of Methane Produced (Million cubic feet) |          | 3.02 ft <sup>3</sup> | 1.67 ft <sup>3</sup> |
| Phosphorus   |          | 83.1%                | 83.8%                |
| Ammonia Overall Treatment                          |          | 97.1%                | 99.2%                |

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.

## Laboratory

2,009 Tests Performed in December

- 445 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 789 Total Suspended Solids and 480 Total Volatile Solids
- 124 pH tests on wastewater and sludges
- 124 Settleable solids were conducted on the mixed liquors
- 139 Plant and River samples for Ammonia
- 10 E.coli analysis on Plant and River samples
- 142 Total Solids and Volatile Solids tests on sludges
- 19 Industry and River samples for independent analysis
- 177 Phosphorous tests on Plant, River, and Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 7 TKN (total kjeldahl nitrogen)
  - \* 7 Nitrate
- 26 Waste hauler samples were collected and checked

## Maintenance

Work Performed at Treatment Plant

- \* Replaced motor on hot supply pump #6 in digester building.
- \* Belts replaced on #1 grit pump in the tunnel.
- \* Rebuilt the polymer pump for the volute press in the headworks.
- \* Air compressor replaced in bleach building for phosphorous analyzer.
- \* Replaced motors on 2A and 1C draft tube mixers on the digesters.
- \* Low pressure cutoff switch on #1 gravity belt thickener replaced.
- \* Installed new lights above influent sampler in fine screen room.
- \* Replumbed eye wash station at ferric tanks in thickener building.

Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Replaced #2 motor starter at 550 and at Twyckenham.

# Lafayette Renew

## Monthly Informational Report

### December 2024

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## Stormwater

### STORMWATER MONTHLY NUMBERS

| DECEMBER                      | 2024  | 2023 |                              | 2024 | 2023 |
|-------------------------------|-------|------|------------------------------|------|------|
| Catch Basin Calls             | 2     | 1    | Erosion Control Inspections  | 48   | 37   |
| Sweeper Calls                 | 6     | 14   | Catch Basin Repaired         | 2    | 0    |
| Sweeper Debris Removal (tons) | 40.12 | 77.4 | Catch Basins Cleaned         | 1    | 0    |
| Stormwater Calls              | 0     | 0    | Ft. of Storm Sewer Jet Clean | 0    | 125  |

### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* Worked on BMP inspections and on the Illicit Discharge Detection and Elimination (IDDE) program.
- \* Maintenance performed on bio-swailes 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 15 City-owned properties.
- \* Replaced missing pavers and sand from joints at 9th Street and Kossuth Street.
- \* Street sweepers assisted Street Department with leaf pickup.
- \* Begin inspections of manhole bladders throughout the City.
- \* Clean downtown area before and after Christmas parade.
- \* Stocked the plant's storage area with stone and gravel.

## Surveillance

### Performed Surveillance

**SIGNIFICANT:** Rea Magnet and DANA

**GENERAL:** none

### Annual Industrial Pretreatment Inspections

Tate & Lyle and Cargill

#### GREASE TRAPS

|                               |    |                             |   |
|-------------------------------|----|-----------------------------|---|
| Interior Inspection           | 28 | Business Compliance Meeting | 1 |
| Exterior Inspection           | 75 | Rough-in Inspection         | 2 |
| Oil/Grit Separator Inspection | 31 | Final Inspection            | 3 |
| Plan Reviews                  | 14 | Under Slab Inspection       | 1 |

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling and creek and ditch sampling.
- \* Durkees Overflow data downloaded for monthly report.
- \* Continued development of a Surveillance GIS map.
- \* Waste hauler permits renewed for Godlove Enterprises and Rolan Plant Services.
- \* Site visit at Southwire.

### Biosolids Land Application Program

- ◆ Biosolids hauled - 0.52 MG with average % solids of 4.45
- ◆ Volute press (landfilled) - 168.34 dry tons.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.
- ◆ Performed and completed soil sampling at permitted fields.

## Sewers

### SEWER MONTHLY NUMBERS

| DECEMBER        | 2024 | 2023  |                             | 2024  | 2023  |
|-----------------|------|-------|-----------------------------|-------|-------|
| Backup Calls    | 16   | 14    | Manhole Frames Raised       | 0     | 0     |
| City Blockages  | 0    | 0     | Ft. of Sewer Jet Cleaned    | 882   | 1,185 |
| Sanitary Calls  | 6    | 5     | Ft. of Sewer Jet Cleaned—PM | 0     | 3,281 |
| Odor Calls      | 0    | 3     | Total Manholes Cleaned      | 0     | 14    |
| Tap Inspections | 42   | 35    | Ft. of Sewer Televised      | 1,290 | 225   |
| Sewer Locates   | 971  | 1,075 | Ft. of Sewer Root Cut       | 635   | 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 throughout the City.
- \* Install salt boxes and plows on trucks.
- \* On-site inspection for grinder removal at the County jail.
- \* Sewer investigation in the 600 block of Main Street.
- \* Quarterly and holiday manholes checks.
- \* Sewer cleaning performed on the fall season hot list.