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CINDY MURRAY



**Monthly Informational Report**  
**October 2024**

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Daily Plant Capacity (peak)—66 MGD  
Collection System Maintained—484.78 miles  
Storm Pumping Stations—3  
Lift Stations—27

Precipitation Total: 0.27 inches\*  
\*Total taken from daily average of five rain gauges

- \* WWTP Solar Field: begin panel and conduit installation
- \* Service Area 11B: begin sewer installation, excavation for lift stations, and installation of dewatering wells
- \* CSO LTCP Phase II HRT: progress meetings
- \* Three Packs project:
  - Coarse Bar Screen - the second of two coarse screens installed
- \* Personnel assisted with De-trash the Wabash
- \* Personnel completed Sexual Harassment training.

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 final clarifier weirs.
  - \* Debris removed from aeration basins.
  - \* Two primary clarifiers were taken offline for maintenance repair.
  - \* Two aeration basins taken offline and pumped down to replace fine air diffusers.
  - \* Dropped and flushed the grit removal tanks.
  - \* Cleaned fine screen conveyor system of debris buildup.
  - \* Fine screen channels flushed and exercised the gates.
  - \* Assisted outside contractors with various projects throughout the plant, including exterior pressure washing and caulking mortar joints.
  - \* 746,300 gallons of digested sludge from storage tanks dewatered for land application program.
- 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.

OCTOBER	2024	2023
Wastewater Treated (MG)	432.8	481.2
Average % Solids Removed	97.8%	97.2%
Biosolids Generated (MG)	2.12 MG	2.0 MG
BOD % Removed	95.7%	94.9%
Cubic Ft. of Methane Produced (Million cubic feet)	3.02 ft <sup>3</sup>	1.79 ft <sup>3</sup>
Phosphorus	85.2%	78.4%
Ammonia Overall Treatment	98.7%	98.4%

**Laboratory**

2,449 Tests Performed in March

- 605 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 776 Total Suspended Solids and 496 Total Volatile Solids
- 130 pH tests on wastewater and sludges
- 152 Settleable solids were conducted on the mixed liquors
- 123 Plant and River samples for Ammonia
- 40 E.coli analysis on Plant and River samples
- 149 Total Solids and Volatile Solids tests on sludges
- 20 Industry and River samples for independent analysis
- 186 Phosphorous tests on Plant, River, and Ditch samples
- 183 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 13 TKN (total kjeldahl nitrogen)
  - \* 19 Nitrate
- 53 Waste hauler samples were collected and checked

**Maintenance**

Work Performed at Treatment Plant

- \* Bearing on #8 exhaust fan in admin building replaced.
- \* Replaced chain on right side of #2 primary tank.
- \* Removed debris from 1A recirculation pump and replaced cables on exhaust stacks for the boilers in the digester building.
- \* Seal replaced on #3 digester manhole lid.
- \* Side shield and springs on #1 Rotostrainer replaced.
- \* Cleaned the strainer on ferric pump fill station.
- \* In the thickener building:
  - Replaced diaphragm on #2 polymer pump.
  - Low pressure cut-off switch replaced on #2 gravity belt thickener.
  - Replaced head on #1 ferric pump.

Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Removed debris from #2 pump at McCarty Lane.
- \* Repaired block heater on the generator at 40 & 8.

# Lafayette Renew

## Monthly Informational Report

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## Stormwater

### STORMWATER MONTHLY NUMBERS

OCTOBER	2024	2023		2024	2023
Catch Basin Calls	2	2	Erosion Control Inspections	50	61
Sweeper Calls	6	10	Catch Basin Repaired	4	5
Sweeper Debris Removal (tons)	118	174.1	Catch Basins Cleaned	47	167
Stormwater Calls	3	3	Ft. of Storm Sewer Jet Clean	0	66

### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* Worked on Illicit Discharge Detection and Elimination (IDDE) program and BMP inspections.
- \* 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 21 City-owned properties.
- \* Storm sewer preventative maintenance performed from 4th St. to Concord Rd. and Beck Ln to Teal Rd. and on VMP between Haggerty Ln. and McCarty Ln.
- \* Maintenance on Brown Street/North Street pavers and on Kossuth Street pavers; also replaced missing pavers and sand from joints at Kossuth Street pavers.
- \* Installed 150 ton of rip rap and fabric in washout in 2800 block of Duncan Rd.
- \* Rain gardens and bioswales prepped for winter.
- \* Personnel attended annual INAFSM (Indiana Association for Floodplain and Stormwater Management) conference
- \* Construction and Post-Construction Stormwater audit with IDEM.

## Surveillance

### Performed Surveillance

**SIGNIFICANT:** Industrial Plating, Ice Cream Specialties, Cargill, Primient, Caterpillar, SIA, Tate & Lyle, and Kelly Construction

**GENERAL:** none

### Annual Industrial Pretreatment Inspections

DANA and Nanshan

GREASE TRAPS			
Interior Inspection	21	Business Compliance Meeting	1
Exterior Inspection	95	Rough-in Inspection	1
Oil/Grit Separator Inspection	42	Final Inspection	2
Plan Reviews	6	Under Slab Inspection	2

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling was performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Annual Priority Pollutant Report submitted to IDEM.
- \* Conducted site visit at DANA.
- \* Conducted seven dental inspections.
- \* Conducted five partial under-slab inspections at Caterpillar for new manufacturing building.
- \* Tested flow cable at WWTP effluent in preparation for semi-annual WET Testing.
- \* Developing a Surveillance GIS map.

### Biosolids Land Application Program

- ◆ Biosolids hauled - 3.67 MG with average % solids of 3.80.
- ◆ Volute press (landfilled) - 239.8 dry tons.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.
- ◆ Performed field checks and soil sampling at permitted fields.

## Sewers

### SEWER MONTHLY NUMBERS

OCTOBER	2024	2023		2024	2023
Backup Calls	4	7	Manhole Frames Raised	0	8
City Blockages	0	0	Ft. of Sewer Jet Cleaned	0	100
Sanitary Calls	2	12	Ft. of Sewer Jet Cleaned—PM	32,110	25,652
Odor Calls	1	3	Total Manholes Cleaned	168	102
Tap Inspections	30	32	Ft. of Sewer Televised	0	1,060
Sewer Locates	1,414	2,030	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.
- \* Assist Stormwater Dept. with installation of stormwater line on King Street from 11th Street to 12th Street.
- \* Replace elbow tube on one of the vac trucks.
- \* Clean catch basin areas throughout the City.
- \* Personnel assisted with loading trucks for our biosolids land application program.