

**Monthly Informational Report
November 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: 1.99 inches*
*Total taken from daily average of five rain gauges

- * WWTP Solar Field: panel and conduit installation continues
- * Service Area 11B: sewer installation, excavation for lift stations, and installation of dewatering wells continues
- * CSO LTCP Phase II HRT: work with IDEM to update CSO LTCP to reflect changes to the project
- * Three Packs project:
 - Aeration Tank Diffusers - begin removal of old and installation of new tanks (#5 and #6)
- * Approved by BOW:
 - Wastewater Master Plan Phase I - Task Order 5, Amendment 1 with Wessler 12/3
 - Prairie Oaks Permanent Bypass - Task Order 7 contract w/ Wessler 12/3

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.
 - * Disinfection season ended and outbuildings were winterized.
 - * 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.
 - * 444,100 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.

	NOVEMBER	2024	2023
Wastewater Treated (MG)		456.1	420.3
Average % Solids Removed		97.6%	96.7%
Biosolids Generated (MG)		2.16 MG	2.2 MG
BOD % Removed		96.1%	96.6%
Cubic Ft. of Methane Produced (Million cubic feet)		2.58 ft ³	1.67 ft ³
Phosphorus		86.7%	83.8%
Ammonia Overall Treatment		97.6%	99.2%

Laboratory

1,923 Tests Performed in March

- 365 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 731 Total Suspended Solids and 480 Total Volatile Solids
- 125 pH tests on wastewater and sludges
- 120 Settleable solids were conducted on the mixed liquors
- 122 Plant and River samples for Ammonia
- 4 E.coli analysis on Plant and River samples
- 129 Total Solids and Volatile Solids tests on sludges
- 18 Industry and River samples for independent analysis
- 171 Phosphorous tests on Plant, River, and Ditch samples
- 61 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)
 - * 22 Nitrate
- 41 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Installed rebuilt mixer into #1 storage tank.
- * Replaced chain in #1 primary tank.
- * Ethernet switch replaced for #2 coarse screen in headworks.
- * Water pressure switch on #1 gravity belt thickener replaced.
- * Replaced plug valve for #3 grit pump and then replaced #3 grit pump in the tunnel.
- * Outrigger replaced on truck #315.
- * In the digester building:
 - Replaced secondary methane gas valve and rebuilt #1 hot water supply pump on #1 boiler.
 - Coupling replaced on hot water supply pump #6.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Replaced block heater on generator at Waterstone.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

<u>NOVEMBER</u>	<u>2024</u>	<u>2023</u>		<u>2024</u>	<u>2023</u>
Catch Basin Calls	1	1	Erosion Control Inspections	65	62
Sweeper Calls	5	7	Catch Basin Repaired	1	6
Sweeper Debris Removal (tons)	37.05	46.5	Catch Basins Cleaned	0	0
Stormwater Calls	2	7	Ft. of Storm Sewer Jet Clean	0	0

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Worked on 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.
- * Maintenance on Brown Street/North Street pavers and on Kossuth Street pavers; also replaced missing pavers and sand from joints at Kossuth Street pavers.
- * Cut up and remove fallen trees from Fairgrounds detention area.
- * Rain gardens and bioswales prepped for winter.
- * Street sweepers assisted Street Department with leaf pickup.
- * Hauled multiple loads of top soil for the plant and rain gardens.

Surveillance

Performed Surveillance

SIGNIFICANT: Nanshan and Arconic

GENERAL: none

Annual Industrial Pretreatment Inspections

Ice Cream Specialties

GREASE TRAPS

Interior Inspection	13	Business Compliance Meeting	1
Exterior Inspection	29	Rough-in Inspection	2
Oil/Grit Separator Inspection	18	Final Inspection	3
Plan Reviews	4	Under Slab Inspection	1

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 three partial under-slab inspections at Caterpillar for new manufacturing building.
- * Semi-annual WET Test conducted and passed.
- * Continued development of a Surveillance GIS map.
- * Permit renewal for Kelly Construction was approved by BOW.
- * Waste hauler permits renewed for Ike's Septic Service and for Payless Septic.

Biosolids Land Application Program

- ◆ Biosolids hauled - none
- ◆ Volute press (landfilled) - 160.86 dry tons.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.
- ◆ Performed soil sampling at permitted fields.

Sewers

SEWER MONTHLY NUMBERS

<u>NOVEMBER</u>	<u>2024</u>	<u>2023</u>		<u>2024</u>	<u>2023</u>
Backup Calls	15	6	Manhole Frames Raised	1	0
City Blockages	3	0	Ft. of Sewer Jet Cleaned	1,282	0
Sanitary Calls	3	8	Ft. of Sewer Jet Cleaned—PM	0	29,206
Odor Calls	2	3	Total Manholes Cleaned	0	78
Tap Inspections	34	33	Ft. of Sewer Televised	1,134	848
Sewer Locates	889	1,316	Ft. of Sewer Root Cut	543	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 for upcoming season.
- * Quarterly and holiday manholes checks performed.