



Monthly Informational Report October 2023

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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: 3.19 inches*

*Total taken from daily average of five rain gauges

- * Approved by BOW:
 - Raineybrook LS Upgrade: Notice of Award, Contract, and Notice to Proceed with Bowen Eng.
 - 2023 Sanitary Sewer Realignment: Notice of Award, Contract, and Notice to Proceed with Miller Pipeline.
- * Misc WWTP Improvements: miscellaneous restoration and cleanup.
- * WWTP/Ross Road LS Solar Field: panels arrived at both WWTP and Ross Road Lift Station.
- * Vinton Woods Stormwater Conveyance: final grading & seeding completed, demobilization of construction equipment, final walk through for punch list items, ponds filled.
- * Service Area 11B: design work
- * Collection System Hydraulic Capacity Study: Contract with Greeley & Hansen
- * Personnel attend Fire Extinguisher training.

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.
 - * Debris removed from six aeration basins.
 - * Transfer sludge from #2 digester to #4 digester; clean and service #2 digester.
 - * Pumped down headworks wet wells to remove grit from the system.
 - * Making process changes to complete final clarifier flow meter installation for eight clarifiers.
 - * Dropped and cleaned one primary clarifier for repairs.
 - * Pressure washed dumpster areas, cleaned the tunnels and stairways.
 - * Fine screen channels flushed and exercised the gates.
 - * 758,256 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.

Operations

OCTOBER	2023	2022
Wastewater Treated (MG)	481.2	447.6
Average % Solids Removed	97.2%	97.6%
Biosolids Generated (MG)	2.0 MG	2.30 MG
BOD % Removed	94.9%	97.0%
Cubic Ft. of Methane Produced (Million cubic feet)	1.79 ft ³	2.10 ft ³
Phosphorus	78.4%	83.5%
Ammonia Overall Treatment	98.4%	99.5%

Laboratory

2909 Tests Performed in March

- 564 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1342 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 85 Plant and River samples for Ammonia
- 45 E.coli analysis on Plant and River samples
- 128 Total Solids and Volatile Solids tests on sludges
- 18 Industry and River samples for independent analysis
- 129 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:
 - * 10 TKN (total kjeldahl nitrogen)
 - * 19 Nitrate
 - * 10 Nitrite
- 43 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Removed debris from #2 digester recirculation pumps.
- * Repaired #1 grit pump suction valve.
- * Spare pump installed in 4B recirculation pump in digester building.
- * In fine screen room, replaced a motor on the volute press and repaired #2 rotostrainer.
- * Replaced motor on #2 polymer pump in thickener building.
- * Water heater in maintenance shop replaced.
- * Hose repaired on #3 primary tank.
- * Repaired and installed #3 raw sewage pump in headworks building.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Replaced air relief valve on force main for Cracker Barrel.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

OCTOBER	2023	2022		2023	2022
Catch Basin Calls	2	4	Erosion Control Inspections	61	45
Sweeper Calls	10	14	Catch Basin Repaired	5	2
Sweeper Debris Removal (tons)	174.1	96.2	Catch Basins Cleaned	167	10
Stormwater Calls	3	1	Ft. of Storm Sewer Jet Clean	66	0

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 eff High School Storm Park.
- * Storm sewer preventative maintenance performed in the area of: 14th St. to 23rd St. and King St. to Gregory Ave. and 5th St. to 14th St. and Cherokee Ave. to Warren Pl.
- * Grounds maintenance performed at 20 City-owned properties.
- * Cable railing repaired and plant replacement trees at Jeff HS Storm Park.
- * Storm line investigated in 1600 block of Cottonwood Cir. with regards to a sinkhole.
- * Cut down and prep rain gardens and bio-swales for winter.
- * Debris picked up along South St., Schuyler Ave., & Sagamore Pkwy.
- * Spray for invasive plants at various locations in the City.
- * Crosser BMP maintenance—filled in wash out from heavy rainfall.

Surveillance

Performed Surveillance

SIGNIFICANT: Cargill, Tate & Lyle North, SIA, and Primient

GENERAL: none

Annual Industrial Pretreatment Inspections

Nanshan and Foodliner

GREASE TRAPS

Interior Inspection	26	Business Compliance Meeting	0
Exterior Inspection	83	Rough-in Inspection	6
Oil/Grit Separator Inspection	33	Final Inspection	0
Plan Reviews	6	Under Slab 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.
- * Site visits conducted at KAG Specialty Group (formerly Transport Service) and at Wabash on Sagamore Pkwy.
- * Semi-Annual WET (Whole Effluent Toxicity) Test performed and passed.
- * Quarterly Industrial Compliance Report submitted to IDEM.

Biosolids Land Application Program

- ◆ Biosolids hauled (land applied) - 0.695 MG w/ avg % solids of 4.00
- ◆ Volute press (landfilled) - 246.33 dry tons.
- ◆ Field checks performed and soil sampling performed on fields permitted through the Land Application program.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

OCTOBER	2023	2022		2023	2022
Backup Calls	7	12	Manhole Frames Raised	8	1
City Blockages	0	1	Ft. of Sewer Jet Cleaned	100	0
Sanitary Calls	12	14	Ft. of Sewer Jet Cleaned—PM	25,652	0
Odor Calls	3	3	Total Manholes Cleaned	102	5
Tap Inspections	32	31	Ft. of Sewer Televised	1,060	85,140
Sewer Locates	2,030	1,395	Ft. of Sewer Root Cut	0	464

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Cut out 36” pipe in 1400 block of S. 5th Street for lining project.
- * Raise manhole at 19th St. and Greenbush St.
- * Filled old storm line at Ocala Court.
- * Clean catch basin areas.
- * Inspect snow plows and salt boxes for winter season.