



Monthly Informational Report February 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: 3.11 inches*

*Total taken from daily average of five rain gauges

- * Misc. WWTP Improvements: grit line relocation completed.
- * Vinton Woods Stormwater Conveyance: begin pond excavation (one of three).
- * Service Area 11B: project survey work continued.
- * 4th Street Sewer Realignment: Pre-Bid meeting held.
- * Personnel attended Operator Certification Training with Wastewater Solutions.
- * Personnel completed annual safety 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

- * Equipment painted throughout the plant.
 - * Pumped down headworks wet well to remove grit from the system.
 - * Ferric pumps filter cleaned.
 - * Fine screen channels flushed and exercised the gates.
 - * Pump tubing for bleach and bisulfite changed in preparation for disinfection season.
 - * Bench tested different chemicals for Phosphorous removal in search of potential cost savings and better performance.
 - * Training continued for new operation technicians.
 - * 506,900 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.

<u>FEBRUARY</u>	<u>2023</u>	<u>2022</u>
Wastewater Treated (MG)	488.5	640.5
Average % Solids Removed	95.4%	96.0%
Biosolids Generated (MG)	1.40 MG	1.74 MG
BOD % Removed	97.2%	97.0%
Cubic Ft. of Methane Produced (Million cubic feet)	2.06 ft ³	2.42 ft ³
Phosphorus	81.7%	80.3%
Ammonia Overall Treatment	99.4%	96.2%

Laboratory

2536 Tests Performed in February

- 485 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1200 Total Suspended Solids and 448 Total Volatile Solids
- 168 pH tests on wastewater and sludges
- 168 Settleable solids were conducted on the mixed liquors
- 179 Plant and River samples for Ammonia
- 4 E.coli analysis on Plant and River samples
- 120 Total Solids and Volatile Solids tests on sludges
- 20 Industry and River samples for independent analysis
- 116 Phosphorous tests on Plant, River, and Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
 - * 5 TKN (total kjeldahl nitrogen)
 - * 15 Nitrate
 - * 5 Nitrite
 - * 19 Total Nitrogen
- 26 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Replaced the disconnect on #1 grit tank rotork valve.
- * Leak on #2 grit washer nozzle in fine screen room repaired.
- * Transducer replaced on #2 ferric tank for system at thickener building.
- * Replaced #13 return activated sludge pump.
- * Pulled new wires for #14 return activated sludge pump.
- * #1 return activated sludge pump replaced.
- * Leak repaired on #1 grit pump.
- * Grit dumpster overhead door opener replaced in fine screen room.
- * Polymer pumps cleaned after use of a test polymer was complete.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Generator batteries replaced at 550 East, Waterstone, and Cracker Barrel.
- * Auxiliary contact on #2 motor starter replaced at 9th & Beck.
- * Removed debris from #1 pump at Butler Meadows.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

FEBRUARY	2023	2022		2023	2022
Catch Basin Calls	15	0	Erosion Control Inspections	50	64
Sweeper Calls	19	2	Catch Basin Repaired	2	0
Sweeper Debris Removal (tons)	40.54	57.28	Catch Basins Cleaned	16	4
Stormwater Calls	3	4	Ft. of Storm Sewer Jet Clean	65	0

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed 12 Best Management Practice (BMP) Inspections throughout the City and worked on Illicit Discharge Detection and Elimination (IDDE) program.
- * 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 15 City-owned properties.
- * Completed fish relocation at Vinton Woods ponds for upcoming Vinton Woods Drainage/Stormwater Conveyance project.
- * Replace sweeper head curtains.
- * Temporary fix placed at 590 Valley Street for driveway flooding.
- * Cut back bio-swales on Sagamore Pkwy. For mulching and prepping rain gardens.
- * Replaced missing pavers at 9th Street and Kossuth Street.

Surveillance

Performed Surveillance

SIGNIFICANT: Caterpillar, Kelly Construction, Primient, and SIA

GENERAL: none

Annual Industrial Pretreatment Inspections

none

Grease Traps

Interior Insp. - 30	Plan Reviews - 3
Exterior Insp. - 52	Rough-in Insp. - 0
Oil/Grit Sep. Insp. - 43	Under Slab Insp. - 2
Business Compliance Meetings - 0	Final Insp. - 6

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling performed.
- * Durkees Overflow data downloaded for monthly report.
- * Soil sampling performed on permitted ground for the biosolids land application program.
- * Special surveillance performed at Tate North along with periodic site visits.
- * Field checks performed on permitted ground that biosolids were applied to.
- * Performed review of Industrial reports.

Biosolids Land Application Program

- ◆ Biosolids hauled - 1.16 MG with average % solids of 5.58
- ◆ Volute press (landfilled) - 62.24 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

FEBRUARY	2023	2022		2023	2022
Backup Calls	20	23	Manhole Frames Raised	0	0
City Blockages	1	2	Ft. of Sewer Jet Cleaned	340	2,292
Sanitary Calls	12	4	Ft. of Sewer Jet Cleaned—PM	0	0
Odor Calls	1	1	Total Manholes Cleaned	0	8
Tap Inspections	53	21	Ft. of Sewer Televised	2,642	3,545
Sewer Locates	1,231	613	Ft. of Sewer Root Cut	185	693

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.
- * Salt box and plow repairs as needed.
- * Vac out holes for gate for Parks Dept.
- * Test 3” gas pumps.