



Monthly Informational Report January 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: 1.69 inches*

*Total taken from daily average of five rain gauges

- * 40 & 8 Lift Station & Force Main Replacement: lift station put in service.
- * Misc. WWTP Improvements: begin grit line relocation and replaced primary influent valves.
- * 7th Street Storm Sewer Relocation: road replaced.
- * Vinton Woods Stormwater Conveyance: relocate fish and dewater ponds.
- * Raineybrook LS: received 90% construction design.
- * Service Area 11B: project survey work performed.
- * Approved by BOW :
 - Vinton Woods Stormwater Conveyance: Design Contract Amendment No. 1 with Christopher B. Burke Engineering.
 - 4th Street Sewer Realignment: Request to Advertise to Bid.
 - Wastewater Master Plan Update: Task Order No. 5 for On-call Services with Wessler Engineering.
 - Operator Certificate Training: contract with Wastewater Solutions, Inc.

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.
- * Training continued for new operation technicians.
- * 1,165,700 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>JANUARY</u>	<u>2023</u>	<u>2022</u>
Wastewater Treated (MG)	479.8	499.6
Average % Solids Removed	96.5%	97.8%
Biosolids Generated (MG)	2.00 MG	2.12 MG
BOD % Removed	96.5%	97.5%
Cubic Ft. of Methane Produced (Million cubic feet)	2.51 ft ³	2.27 ft ³
Phosphorus	83.8%	82.4%
Ammonia Overall Treatment	90.3%	99.3%

Laboratory

3123 Tests Performed in January

- 631 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1372 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 231 Plant and River samples for Ammonia
- 9 E.coli analysis on Plant and River samples
- 124 Total Solids and Volatile Solids tests on sludges
- 78 Industry and River samples for independent analysis
- 145 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)
 - * 64 Nitrate
 - * 5 Nitrite
 - * 59 Total Nitrogen
- 28 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Repaired #1 boiler.
- * Ferric pump head on #8 ferric pump replaced.
- * Installed new hot water line and faucet in stormwater wash bay.
- * Replaced heater in plant main water building.
- * Roof drain repaired in headworks mechanical room.
- * Replaced relay for #4 raw sewage pump.
- * Installed new wall pack lights on blower building.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Pump alternator replaced at Cracker Barrel.
- * Vent screen repaired on Pearl River conveyance tunnel.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

JANUARY	2023	2022	2023	2022	
Catch Basin Calls	0	0	Erosion Control Inspections	69	40
Sweeper Calls	8	7	Catch Basin Repaired	0	0
Sweeper Debris Removal (tons)	87.65	57.28	Catch Basins Cleaned	18	0
Stormwater Calls	0	4	Ft. of Storm Sewer Jet Clean	89	142

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed 11 Best Management Practice (BMP) Inspections throughout the City and worked on 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 13 City-owned properties.
- * Replace sweeper head curtains.
- * Assist Wabash River Enhancement Corp. (WREC) with removal of honeysuckle around pedestrian bridge and train depot.
- * Repaired sinking pavers at Jeff HS Storm Park.
- * Begin fish relocation at Vinton Woods ponds for upcoming Vinton Woods Drainage/Stormwater Conveyance project.
- * Clean and winterize small equipment.
- * New Green Infrastructure Manager training.

Surveillance

Performed Surveillance

SIGNIFICANT: Industrial Plating, Ice Cream Specialties, Rea Magnet, DANA, and Kelly Construction

GENERAL: Foodliner and Transport Service

Annual Industrial Pretreatment Inspections

none

Grease Traps

Interior Insp. - 23	Plan Reviews - 10
Exterior Insp. - 41	Rough-in Insp. - 2
Oil/Grit Sep. Insp. - 36	Under Slab Insp. - 10
Business Compliance Meetings - 0	Final Insp. - 5

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling and creek and ditch 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.
- * Sludge Analysis Report and 4th Qtr. 2022 Industrial Non-Compliance Report submitted to IDEM.
- * Performed review of Industrial reports.

Biosolids Land Application Program

- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

JANUARY	2023	2022	2023	2022	
Backup Calls	20	14	Manhole Frames Raised	0	0
City Blockages	1	1	Ft. of Sewer Jet Cleaned	340	125
Sanitary Calls	12	3	Ft. of Sewer Jet Cleaned—PM	0	8,007
Odor Calls	1	0	Total Manholes Cleaned	0	25
Tap Inspections	53	32	Ft. of Sewer Televised	2,642	224
Sewer Locates	1,231	557	Ft. of Sewer Root Cut	185	100

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.
- * Televised sewer lines in 2023 road paving list.
- * Sewer repair performed in 1400 block of Adams Street.
- * Remove grease from wet wells at Stones Crossing lift station and Creasy Lane lift station.
- * Salt box and plow repairs as needed.
- * Blockage follow-up performed in 1100 block of Rochelle Drive.