



Monthly Informational Report

March 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: 4.63 inches*

*Total taken from daily average of five rain gauges

- * Misc. WWTP Improvements: effluent gate replaced.
- * Vinton Woods Stormwater Conveyance: excavation completed on pond 1 of 3.
- * Approved by BOW:
 - 40 & 8 LS & Force Main Replacement: Certificate of Substantial Completion w/ Bowen Engineering
 - Raineybrook LS: Contract Amendment 2 w/ Structurepoint
 - 4th Street Sewer Realignment: Notice of Award, Contract, Notice to Proceed w/ Bowen Engineering
 - 2022 GIS Collection Updates: Contract w/ Butler, Fairman, & Seufert
- * Personnel assisted with sludge trucks for the biosolids land application program.
- * Personnel attended Active Shooter 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

- * Chemical building put online for disinfection season
- * Dropped and cleaned #3 primary clarifier for maintenance repairs.
- * Pumped down headworks wet well to remove grit from the system.
- * Bench tested different chemicals for Phosphorous removal in search of potential cost savings and better performance.
- * Fine screen channels flushed and exercised the gates.
- * Metal fabrication and modification performed to some of the debris chutes.
- * 998,850 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.

MARCH	2023	2022
Wastewater Treated (MG)	722.9	672.8
Average % Solids Removed	96.5%	96.5%
Biosolids Generated (MG)	1.83 MG	2.1 MG
BOD % Removed	96.8%	96.8%
Cubic Ft. of Methane Produced (Million cubic feet)	2.39 ft ³	3.5 ft ³
Phosphorus	82.4%	79.4%
Ammonia Overall Treatment	98.9%	93.8%

Laboratory

2648 Tests Performed in March

- 473 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1332 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 71 Plant and River samples for Ammonia
- 6 E.coli analysis on Plant and River samples
- 140 Total Solids and Volatile Solids tests on sludges
- 20 Industry and River samples for independent analysis
- 121 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)
 - * 12 Nitrate
 - * 5 Nitrite
 - * 20 Total Nitrogen
- 43 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Replaced water line for the biosolids load station.
- * #2 polymer pump in thickener building repaired.
- * Fine screen room #2 Roto strainer repaired.
- * Installed new chain hanger in the storeroom.
- * A section of roof drain piping replaced in fine screen room.
- * The rebuilt return activated sludge pump #13 installed.
- * Flights on #3 primary tank repaired.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Replaced #2 pump at Wildcat Valley.
- * Removed debris from #2 pump and replaced weir ring and replaced all 6" pump drain valves at Prairie Oaks.
- * Heater replaced at Cobblestone.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

MARCH	2023	2022		2023	2022
Catch Basin Calls	15	4	Erosion Control Inspections	83	33
Sweeper Calls	15	17	Catch Basin Repaired	0	1
Sweeper Debris Removal (tons)	182	320.3	Catch Basins Cleaned	226	3
Stormwater Calls	10	4	Ft. of Storm Sewer Jet Clean	708	266

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed 9 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 17 City-owned properties.
- * Storm sewer preventative maintenance performed in the area of: Cason St./Rome Dr. & Center St./Meijer Ct. & N. 24th St. to VMP.
- * Trash pickup along South St., Sagamore Pkwy., VMP, Concord Rd., and Maple Point Dr.
- * Reinstall missing pavers at 9th Street and Kossuth Street and troubleshoot drainage concerns.
- * Investigate drainage issue with catch basin at old Jenks building parking lot at Columbian Park.
- * Annual MS4 Report submitted to IDEM.

Surveillance

Performed Surveillance

SIGNIFICANT: Nanshan, Arconic, Cargill, Tate North, and ZF
GENERAL: Southwire

Annual Industrial Pretreatment Inspections

Kelly Construction and ZF

Grease Traps

Interior Insp. - 14	Plan Reviews - 11
Exterior Insp. - 54	Rough-in Insp. - 2
Oil/Grit Sep. Insp. - 30	Under Slab Insp. - 0
Business Compliance Meetings - 2	Final Insp. - 5

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 continued at Tate North along with periodic site visits.
- * Field checks performed on permitted ground that biosolids were applied to.
- * Whole Effluent Toxicity Test completed and passed in February.
- * Preventative maintenance performed at Fire Station rain gauge.
- * Site visit conducted at Industrial Plating.

Biosolids Land Application Program

- ◆ Biosolids hauled - 0.94 MG with average % solids of 5.13
- ◆ Volute press (landfilled) - 192.59 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

MARCH	2023	2022		2023	2022
Backup Calls	31	24	Manhole Frames Raised	1	0
City Blockages	3	1	Ft. of Sewer Jet Cleaned	3,426	1,697
Sanitary Calls	12	16	Ft. of Sewer Jet Cleaned—PM	799	0
Odor Calls	0	5	Total Manholes Cleaned	4	0
Tap Inspections	49	47	Ft. of Sewer Televised	246	1,373
Sewer Locates	1,648	1,208	Ft. of Sewer Root Cut	493	0

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Televised drain at Loeb Stadium.
- * Wildcat Valley force main repair.
- * Replace manhole ring and lid at 2142 S Beck Lane.
- * Clean catch basin areas.