



Monthly Informational Report February 2024

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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: 0.59 inches*

*Total taken from daily average of five rain gauges

- * Approved by BOW:
 - Misc. WWTP Improvements: Certificate of Final Completion.
- * Raineybrook LS: continue directional drill, install dewatering well on LS site.
- * Service Area 11B: pre-proposal meeting and open proposals.
- * Emergency Prairie Oaks Sanitary Sewer Rehab: install pump-around and begin lining.
- * Personnel attended CPR/First Aid training.
- * Personnel completed annual safety videos.

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 clarifier weirs.
- * Debris removed from six aeration basins.
- * Chemical building floor painted.
- * Pumped down headworks wet well to remove grit from the system.
- * Pressure washed volute press to remove excess debris.
- * Fine screen conveyor system cleaned of debris buildup.
- * Fine screen channels were flushed and gates were exercised.
- * Digester building cleaned along with stairwells and tunnels throughout the plant.
- * Mowers and grounds keeping equipment was serviced.
- * 1,085,050 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.

FEBRUARY	2024	2023
Wastewater Treated (MG)	471.9	488.5
Average % Solids Removed	97.5%	95.4%
Biosolids Generated (MG)	2.03 MG	1.40 MG
BOD % Removed	96.0%	97.2%
Cubic Ft. of Methane Produced (Million cubic feet)	3.24 ft ³	2.06 ft ³
Phosphorus	77.3%	81.7%
Ammonia Overall Treatment	99.3%	99.4%

Laboratory

2118 Tests Performed in February

- 461 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 789 Total Suspended Solids and 464 Total Volatile Solids
- 146 pH tests on wastewater and sludges
- 174 Settleable solids were conducted on the mixed liquors
- 105 Plant and River samples for Ammonia
- 4 E.coli analysis on Plant and River samples
- 132 Total Solids and Volatile Solids tests on sludges
- 53 Industry and River samples for independent analysis
- 168 Phosphorous tests on Plant, River, and Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
 - * 17 TKN (total kjeldahl nitrogen)
 - * 123 Nitrate
 - * 14 Nitrite
- 32 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Motor replaced on 2C mixer on #2 digester.
- * Repaired #2 coarse screen in headworks building.
- * The 2A recirculation pump in digester building replaced.
- * Replaced #9 return activated sludge pump in #5 final clarifier tank.
- * All overhead lights in vehicle storage building replaced with LED.
- * Battery checks performed on Omni-site alarm systems.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Debris removed from #3 pump at Waterstone.
- * Installed generator plug at Chesapeake Bay.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

FEBRUARY	2024	2023		2024	2023
Catch Basin Calls	2	15	Erosion Control Inspections	45	50
Sweeper Calls	15	19	Catch Basin Repaired	8	2
Sweeper Debris Removal (tons)	91.68	40.54	Catch Basins Cleaned	1	16
Stormwater Calls	2	3	Ft. of Storm Sewer Jet Clean	60	65

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 Jeff High School Storm Park.
- * Grounds maintenance performed at 15 City-owned properties.
- * Install storm infrastructure for Columbian Park Commissary Bldg.
- * Replace curtains and worn out parts on sweeper heads.
- * Large trash items picked up along Sagamore Pkwy., South St., and VMP for street sweeping.
- * Personnel assisted WREC with removal of invasive honeysuckle weed at McAllister Park.
- * Trash picked up from bio-swales and rain gardens; also prepped for mulch and planting.
- * Personnel attended Annual Stormwater Contractors Workshop.
- * Manhole bladder inspections performed.

Surveillance

Performed Surveillance

SIGNIFICANT: Cargill, Tate & Lyle, Nanshan, Arconic, DANA, Kelly Construction, and Rea Magnet

GENERAL: none

Annual Industrial Pretreatment Inspections

none

GREASE TRAPS

Interior Inspection	34	Business Compliance Meeting	2
Exterior Inspection	57	Rough-in Inspection	0
Oil/Grit Separator Inspection	43	Final Inspection	0
Plan Reviews	11	Under Slab Inspection	0

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling and creek & ditch sampling performed.
- * Durkees Overflow data downloaded for monthly report.
- * Sampler battery testing continued.
- * Site visit performed at KAG Specialty Products Group.
- * In process of permitting a new waste hauler.
- * Set up sampler at Storm Pump lift station during contact tank cleaning.

Biosolids Land Application Program

- * Biosolids hauled - none
- * Volute press (landfilled) - 273.28 dry tons
- * The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

FEBRUARY	2024	2023		2024	2023
Backup Calls	15	19	Manhole Frames Raised	2	0
City Blockages	1	0	Ft. of Sewer Jet Cleaned	920	310
Sanitary Calls	7	8	Ft. of Sewer Jet Cleaned—PM	31,224	6,700
Odor Calls	2	0	Total Manholes Cleaned	164	31
Tap Inspections	53	28	Ft. of Sewer Televised	735	579
Sewer Locates	1,053	1,116	Ft. of Sewer Root Cut	545	0

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Sewer lines installed for Columbian Park Commissary Building.
- * Manhole structures raised to grade at:
 - 700 block of Finsbury Street
 - N. 17th & Greenbush Street
 - 2800 block of Ulen Lane
- * Catch basin repaired at:
 - 800 block of Pontiac Avenue
 - S. 15th & Congress Streets
 - 1400 block of Kenilworth Drive
- * Repair sample pump for one of the primary clarifiers.
- * Replace vacuum tube on jet truck.