



WATER POLLUTION CONTROL

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ANNUAL REPORT FOR THE YEAR ENDING DECEMBER 31, 2021

The City of Auburn owns and operates a tertiary wastewater treatment plant (IN0020672), as well as approximately 140 miles of sewer lines. The existing facility consists of two separate treatment plants, which provide preliminary, primary, secondary treatment, and disinfection at both sites. The overall design flow rate for the facility is 4.5 MGD, with a peak design flow rate of 9.0 MGD. The department technicians manage a system of machines, often through the use of computerized instrumentation, to monitor, transfer, treat, and analyze wastewater. In addition, we have an on-site laboratory equipped to analyze wastewater for reporting to state and federal agencies for compliance with regulatory requirements. Auburn WPC employs sixteen people.

Auburn WPC uses a technologically advanced means of sludge disposal with the N-Viro™ Soil System that recycles wastewater sludge and other waste streams rich in organic matter into a safe, valuable product that can be beneficially reused. N-Viro™ is a soil-like product that meets the U.S. EPA’s “Exceptional Quality Sludge” criteria, achieving the highest level of pathogen kill, while maintaining valuable indigenous micro flora.

Following is a brief list of projects started and/or completed during 2021:

- SCADA Server upgrades were completed
- CR56 & CR11A Sanitary Sewer Extension
- Biosolids Centrifuge Project is ready to out for bid
- CSO 009 Storage Project is in the final design phase

PLANT

- Total Effluent treated 1009.7 Million Gallons
 Yearly Average Influent 101.510 MGD Effluent 84.147 MGD
 Monthly Average Influent 3.34 MGD Effluent 2.77 MGD
- Annual Total Rainfall: 52.8”
 Monthly Average Rainfall: 4.4”
- There were ten Combined Sewer Overflow (CSO) events: 010:1, 011:6, and 009:3
- Disposed of approximately 180 yards of Special Waste via Republic Services.
- Biosolids and Industrial Pretreatment Programs were integrated into the Plant Operations in September 2021.

2021 Permit # IN0020672 Exceedances (Effluent)

Parameter	Month	Concentration Exceedance	Loading Exceedance	Cause
Ammonia	June	1	0	High Flow

E. coli	June	1	0	High flow, Low disinfection chemical feed
	July	1	0	Low disinfection chemical feed
	September	1	0	Low disinfection chemical feed
Total exceedances		4		

2021 Outfall 011 (Store Treat) Permit Exceedances

Parameter	Month	Concentration Exceedance	Loading Exceedance	Cause
Total Residual chlorine	August	1		Low dichlorination feed, short overflow time
Total exceedances		1		

COLLECTION SYSTEM DATA

- Sanitary/Stormwater inlet repairs: 22
- Vac/Jet truck was our 53 times and cleaned a total of 18,170' of sewer line.
- Televised sewers 63 days during the year
- Cleaned lift stations 29 times during the year
- Performed 63 sewer tap inspections
- Provided assistance to other departments 32 times during the year
- Witnessed Pressure/Vacuum/Mandrel testing 4 times during the year for various projects throughout the city.
- Responded to 45 citizen complaints, all but 4 were determined to be the property owner's responsibility.
- Additional Activities:
 - Deploy mosquito pellets in stormwater inlets throughout town
 - Grease Trap Inspection 4 X Annually
 - Metal Technology HQ – repair outfall in yard
 - Randy Morton tap repair
 - Lagoon bank stabilization
 - Plant #2 drive
 - Clean-out bio-retention plant #1
 - Assist with the Beecher Hines tap
 - Investigate water at the south basement entrance of NATMUS Museum.
 - Assisted Crosby Excavating on the new water main project
 - Crosby bore through a combination sewer line (Brandon St. / Rieke Corp.)
 - Replaced a portion of the stormwater sewer pipe on North St.

- Assisted with the new infrastructure at Melony, Mark, and Roger Drives
- Assisted Gibson's Plumbing and Heating several times on a forced main issue at 5402 CR 427
- Repaired a tap at 306 Melony Lane that was damaged during the street reconstruction but wasn't apparent until December.

PLANT MAINTENANCE)

- Added a third person to plant maintenance.
- Completed 334 workorders for various issues in and around the treatment plant and its appurtenances, in addition to regular P & M, ground and facility maintenance.

LABORATORY

- Samples are collected from over 20 locations, including 13 within the WPC facility, and 7 industrial user locations.
- Over 5,800 samples were collected during the year
- More than 17,000 analysis were conducted the by the lab staff, and over 1,400 analyses were performed at contract laboratories.
- The lab is required to maintain a quality control/quality assurance program. Our analytical proficiency rating is 98.8%, based on EPA required DMR-QA analyses, and our quarterly proficiency testing.
- The lab passed IWEA audit with an average score of 98.2%.

Parameter	Average Effluent Value (Summer/Winter)	Permit Limit Monthly Average (Summer/Winter)
Ammonia	0.3/0.4 mg/L	1.6 /1 .7 mg/L
Biomonitoring acute	<1.0 TUa	1.1 TUa
Biomonitoring chronic	<1.0 TUc	1.1 TUc
cBOD	6 / 3 mg/L	15 / 25 mg/L
Copper	0.007 mg/L	0.023 mg/L
Cyanide	<0.004 mg/L	0.0045 mg/L
Dissolved Oxygen	minimum 7.5 mg/L	minimum 6.0/5.0 mg/L
E. coli	12 MPN	125 MPN
Mercury	2.25 ng/L	4.0 ng/L
pH	7.4-7.9 standard units	6.0-9.0 standard units
Total Phosphorus	0.4 mg/L	1.0 mg/L
Total Residual Chlorine	<0.06 mg/L	< 0.06 mg/L
Total Suspended Solids	3 / 4 mg/L	18 / 30 mg/L

INDUSTRIAL PRETREATMENT)

- Currently there are Five permitted industries active in the Industrial Pretreatment Program.
- On December 31, 2021, Eaton Corp was removed from the program due to the plant closing and no activity at the site.
- Two Industrial Pretreatment permits were renewed in 2021.
- Each industrial user facility, other than Eaton, was inspected as required.
- A total of 29 grab, 12 composites, and 7 resamples were obtained and analyzed throughout the year for compliance with Industrial Pretreatment Effluent Limitations.
- No industrial users were published in the newspaper for Significant Non-Compliance.

MS4/PUBLIC EDUCATION

- Hosted two rain barrel workshops with a combined total of 40 residents participating.
- Collaborated with the Auburn Conservation Team, DeKalb Soil & Water, Scout Troops #169, and #597 for a total of twenty volunteers and held a Cedar Creek clean-up from the Doc Colman Landing to Eckhart Park. Items we collected were tractor and automobile tires, a car battery, a bicycle, a meal/wooden bench, traffic cones, a snow shovel, a handheld radio, and misc rubber, glass, and plastic.
- Collaborated with the Auburn Conservation Team for a community clean-up at the City owned wetland area on Touring Drive with forty volunteers.
- Presented a program on SWPPP to the Auburn Kiwanis, 21 members, and the Auburn Noon Lions Club, 20 members. We talked about daily practices they can do at home to help keep our water ways clean.
- Participated in an Environmental Day at Garrett Middle School. We were able to present SWPPP to 115 students focusing on steps they and their parents can practice at home. We were able to utilize the SWPPP Labyrinth boards our department modified for the purpose.
- We continue to raise SWPPP awareness through our local NCG Movie Theatre by placing a brief message before every movie about Pollution Prevention.
- We still partner with the DeKalb Soil and Conservation District to accomplish our Rule 5 Construction Site Inspections.
 - We are currently inspecting 13 sites in our MS4 area boundaries and 4 EJT areas.
 - One such site, Sunrise Apartments, was inspected by IDEM and had some deficiencies that we had previously noted during our inspection process. Those deficiencies did get corrected and the site is in compliance with Rule 5.
 - We received one IDEM incident report for Monroe Muffler that ended up being nothing more than a call from a disgruntled employee. All documentation is available upon request.
 - We did have 2 illicit discharges to Cedar Creek. One citizen complaint in January could not be traced back to its point of origin. It was the tail end of what appeared to be a petroleum product. The other complaint was traced by to Messenger Corp. They had an hydraulic leak in the outside shipping/receiving area. It did not get cleaned up before a significant rain event, and the fluid washed into a stormwater drain in the gravel lot that

discharged to Cedar Creek. They were sent a Notice of Violation of city ordinance and informed of their responsibility to rectify the situation. Clean-up was completed to our satisfaction. All documentation is available up on request.

- Training 2021
 - IWEA Annual Conference
 - Alliance of IN Rural Water Annual Conference
 - Stormwater Management Workshop
 - IN MS4 Annual Meeting
 - Contractors Workshop

SAFETY

- No lost time accidents to report in 2021.
- WPC continues to provide safety training, equipment, and support for our staff to maintain a safe work environment
- SES Environmental provides quarterly safety services.

Respectfully submitted by:

Todd Sattison, Superintendent