

Water Pollution Control Department

Monthly Informational Report

January 2012



The following is a list of analyses performed in January:

Laboratory



- 318 Biochemical Demand (BOD) tests were run this month, which included Plant, River and Industrial samples
- 984 Total Suspended Solids and Total Volatile Solids tests were also completed this month
- 191 pH tests were run including the Influent and Effluent plant flow, digester samples, raw sludge and transported sludge
- 186 Settable solids and 54 respiration rate tests were run on the mixed liquor
- 89 Plant and River samples were tested for Ammonia
- 4 Ecoli analysis were performed
- 250 Total Solids and Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- 8 Alkalinity and 8 Volatile Acid tests were performed
- 21 samples were prepared for independent analysis
- 37 Waste hauler samples were collected and checked

Maintenance

The following is a list of items performed for January:

Treatment Plant

- Plant and lift station preventative maintenance
- Installed a water heater on the #1 polymer pump and cleaned both the polymer pumps in the thickener building
- Cleaned the water jacket on the #2 raw sewage pump and replaced lights in the Headworks
- Repaired the drain pots on the methane gas system
- Repaired the blue dumpster for landfill



Lift Stations

- Replaced the air line on the bubbler system at Ashton Woods
- Replaced the hour meter at Rome Drive
- Replaced the overload relay at Twyckenham
- Repaired the speed reducer on the #2 grinder at Pearl River
- Removed debris from the #2 pump at 40 & 8

January	2012	2011
Wastewater Treated (MG)	659.8	455.7
Average % Solids Removed	94.6%	97.5%
Biosolids Generated (MG)	1.9 MG	1.8 MG
BOD's % Removed	95.8%	97.5%
Biosolids Applied to Sites (MG)	0	0
Average % Solids of Biosolids Applied	0	0
Cubic Ft. of Methane Produced (Million cubic feet)	2.8 ft ³	2.2 ft ³
Ammonia Overall Treatment	99.4%	99.2%

The Operations Department submitted the following monthly reports to the Indiana Department of Environmental Management: Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report.

Daily equipment rotations continue. Our record keeping and proper sampling procedures required by our NPDES permit continue. The following items were also completed by the Operations Department in January:

- We have been able to paint the following: grit washers and piping, grit pumps and piping along with the heating systems hot water pumps and methane gas lines.
- We have been testing a hot water system for our polymer mixing pumps to see if it improves efficiency of the product we now use.
- We have been assisting in snow removal throughout the plant and the city streets as well.
- We have been dewatering our digested sludge storage tanks in preparation for our land application program.

The Operations Department continues to run a very efficient process well within our NPDES permit limits.

The following is a list of items performed for January:

- Made manhole risers
- Raised manholes from work list
- Cleaned wet well at Prairie Oaks Lift Station
- Repair plow trucks and salt boxes
- Plowed and salted Area 8 and Area 11
- Repaired open cleanout at 1647 Tanglewood Drive
- Helped T-Bird Engineering get into Cincinnati Street regulator



Sewers

MONTHLY NUMBERS

<u>JANUARY</u>	<u>2012</u>	<u>2011</u>
Backup Calls	28	10
City Blockages	2	2
Sanitary Calls	5	12
Odor Calls	1	1
Tap Inspections	27	11
Sewer Locates	369	199
Manhole Frames Raised	31	0
Manholes Repaired	0	0
Ft. of Sanitary Sewer Repaired	7	0
Ft. of Sewer Jetted	3,411	1,002
Ft. of Sewer Televised	1,562	1,782



Stormwater

The following list of items performed for January:

- Regraded ditch on Concord Road
- Cleaned Mary Hill Drive sewer outlet
- Ditch repair on Concord Road due to vehicle accident
- Hired two Stormwater Technicians
- Erosion control inspections at various construction sites
- Responded to miscellaneous residential drainage calls
- Post construction inspection preparations
- Began the Orchard Heights Phase I drainage project

MONTHLY NUMBERS

<u>JANUARY</u>	<u>2012</u>	<u>2011</u>
Catch Basin Calls	20	0
Ft. of Storm Sewer Repaired	0	0
Storm Manholes Raised	0	—



Surveillance was performed at the following Significant Industrial Contributors: Tate & Lyle Ingredients Americas, Inc. (North), Ice Cream Specialties, Cargill, Caterpillar and Wabash National. We completed an annual industrial inspection at Rea Magnet. The surveillance area inspected 37 interior grease traps, 56 exterior grease traps and 4 oil and grit separators. The following reports were submitted to the Indiana Department of Environmental Management: Land Application of Biosolids Report for December.

- Two businesses were added to the Commercial Trap Program.
- Dye testing was performed for the IDDE program.
- River sampling was conducted.
- We conducted a pH industrial study.
- Lafayette Instrument monitoring procedures were reviewed.
- We researched infiltration into a lift station and a sewer blockage due to grease.
- Commercial Trap Inspector and Chief of Surveillance/Pretreatment positions were filled.

Surveillance

Daily Plant Capacity—52 MGD

Storm Pumping Stations—2

Collection System Maintained—454 miles

Lift Stations—26