



Water Pollution Control Department Monthly Informational Report

July 2014

Daily Plant Capacity—52 MGD
Collection System Maintained—470.99 miles

Lift Stations—26
Storm Pumping Stations—2

Monthly Reports Submitted to the Indiana Department of Environmental Management
Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report

Work Performed

- * Algae was hosed and scraped from six final clarifier weir boards
- * Personnel assisted with ground maintenance at the lift stations throughout the City
- * Four 90' final clarifiers were prepared for sand blasting and painting of the iron frame work inside the tanks
- * Personnel worked with Gripp, Inc. on some final flow metering issues
- * Digested sludge storage tanks dewatered for the biosolids land application program

Necessary ground maintenance for the treatment plant was performed.
Daily equipment rotations continue.
Our record keeping and proper sampling procedures required by our NPDES permit continue.

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

OPERATIONS

<u>JULY</u>	<u>2014</u>	<u>2013</u>
Wastewater Treated (MG)	458.4	458.4
Average % Solids Removed	98.8%	97.7%
Biosolids Generated (MG)	1.8 MG	1.2 MG
BOD % Removed	96.8%	96.5%
Biosolids Applied to Sites (MG)	--	--
Average % Solids of Biosolids Applied	--	--
Cubic Ft. of Methane Produced (Million cubic feet)	2.1 ft ³	2.1 ft ³
Ammonia Overall Treatment	99.3%	99.0%

Work Performed at the Treatment Plant

- * Removed the #3 raw sewage pump in the headworks and installed a new one
- * Rebuilding the #5 primary was finished
- * Floats in the primary scum pit were replaced
- * Installed the waste sludge mixer at the thickener building
- * The following was performed in the digester building:
 - ◇ Motors on the hot water circulation pump replaced
 - ◇ Replaced the adjustable frequency drive on the 4A recirculation pump and on the hot water circulation pump
 - ◇ The sensor on the gas detection system was replaced
 - ◇ The #1 boiler modulating motor was replaced

Work Performed at Lift Stations

- * Replaced the transducer at McCarty Lane
- * High wet well float replaced at Twyckenham
- * The generator battery at 550 was replaced



MAINTENANCE

Analyses Performed

- * 581 Biochemical Demand (BOD) tests were run which included Plant, River and Industrial samples
- * 566 Total Suspended Solids and 346 Total Volatile Solids tests were completed
- * 183 pH tests were run including the Influent and Effluent plant flow, digester samples, raw sludge and transported sludge
- * 186 Settleable solids and 12 respiration rate tests were run on the mixed liquors
- * 77 Plant and River samples were tested for Ammonia
- * 43 Ecoli analysis were performed on river samples
- * 149 Chlorine/Bisulfite tests were performed
- * 242 Total Solids and Total Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- * 68 Industry and River samples were prepared for independent analysis
- * 32 Phosphorous tests were conducted on Influent, Effluent, and river/ditch samples
- * 78 Waste hauler samples were collected and checked



LABORATORY

MONTHLY NUMBERS			<u>Work Performed</u>
<u>JULY</u>	<u>2014</u>	<u>2013</u>	
Erosion Control Inspections	244	217	* Attended pre-con meetings for erosion control measures
Catch Basin Calls	7	6	* Street sweepers removed 169.88 tons of debris from roadways.
Catch Basin Repaired	5	8	* Performed maintenance on rain gardens and bio-swales
Ft. of Storm Sewer Jet Clean	238	0	* Catch basin at N. 8th and Main Streets rebuilt
Storm Manholes Raised	1	0	* Ditch spillway on SR 26 E replaced from Creasy Lane to Lowe's entrance
Ft. of Storm Sewer Installed	0	0	* Repaired pipes leading to Heron Bay pond and filled sinkholes in area
Ft. of Storm Sewer Repaired	0	0	* Personnel attended Bloodborne Pathogen training
			* Storm lines throughout the City televised and cleaned



STORMWATER

	<u>Work Performed</u>			MONTHLY NUMBERS		
	<u>JULY</u>	<u>2014</u>	<u>2013</u>			
* Storm sewer at 10 N. Earl Avenue repaired	Backup Calls	19	13			
* Cincinnati Street roadway repaired	City Blockages	1	0			
* Assisted the Maintenance department rebuilding the #5 primary tank	Sanitary Calls	10	9			
* Televised three blockage follow-ups	Odor Calls	3	2			
* Preventative maintenance on sewers	Tap Inspections	20	99			
* Catch basins throughout the City repaired and cleaned	Manhole Frames Raised	2	18			
	Manholes Repaired	0	0			
	Ft. of Sanitary Sewer Repaired	8	2			
	Ft. of Sewer Jet Cleaned	503	960			
	Ft. of Sewer Jet Cleaned—PM	0	19,611			
	Ft. of Sewer Televised	4,017	3,334			

SEWERS

Annual Industrial Pretreatment Inspections
Transport Service Co.

Submitted Reports to Indiana Department of Environmental Management
Land Application of Biosolids

Grease Traps Inspected
Interior—65
Exterior—25
Oil/Grit—19

Other Work Performed

- * Dye testing performed for water-only accounts for billing verification
- * Quarterly industrial meter readings performed for the Utility Billing Office
- * Rain gauge preventative maintenance performed
- * River sampling performed
- * Phosphorus sampling continues
- * Personnel attended training for Neptune meter readers
- * Industrial User permit renewal for Lafayette Sani-Wash approved by the Board of Public Works and Safety

Performed Surveillance

Significant Industrial Contributors

- Rea Magnet
- Fairfield Manufacturing
- Tate & Lyle North
- Industrial Plating, Inc.
- Lafayette Instrument

General Industrial Contributors

- Coleman Cable

SURVEILLANCE

