



Water Pollution Control Department Monthly Informational Report

April 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

- * Chemical building equipment started for the disinfection season.
- * Acid washing and high pressure washing the 70' final clarifiers to prepare for painting of the concrete and ironwork.
- * Outside hydrants and equipment painted.
- * Serviced mowers and other grounds maintenance equipment.
- * Approximately 100' of 8" sludge piping cleaned with the help of Maintenance and Sewer personnel.
- * Sludge storage tanks prepared for land application program.

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

April	2014	2013
Wastewater Treated (MG)	606.3	797.4
Average % Solids Removed	98.3%	94.6%
Biosolids Generated (MG)	2.1 MG	1.9 MG
BOD % Removed	96.1%	94.6%
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	2.7 ft ³
Ammonia Overall Treatment	99.3%	97.9%

Work Performed at the Treatment Plant

- * The #3 aeration tank mixer replaced
- * Replaced the #1 scum pump for secondary scum pump station
- * Tubes in the #2 boiler replaced and 4A recirculation pump removed for repair in the digester building
- * Cleaned the effluent flow meter

Work Performed at Lift Stations

- * At Golf Course, the #2 pump was replaced and the heater over loads on the #1 motor starter were replaced
- * Installed new Variable Frequency Drive (VFD) at Prairie Oaks
- * Pump replaced at Greenbriar
- * Collected samples for the Lab from Ross Road force main
- * Generators serviced at the lift stations



MAINTENANCE

Analyses Performed

- * 547 Biochemical Demand (BOD) tests were run which included Plant, River and Industrial samples
- * 485 Total Suspended Solids and 481 Total Volatile Solids tests were completed
- * 173 pH tests were run including the Influent and Effluent plant flow, digester samples, raw sludge and transported sludge
- * 180 Settable solids and 12 respiration rate tests were run on the mixed liquors
- * 81 Plant and River samples were tested for Ammonia
- * 46 Ecoli analysis were performed on river samples
- * 120 Chlorine/Bisulfite tests were performed
- * 113 Total Solids and 113 Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- * 142 industry and river samples were prepared for independent analysis
- * 30 Phosphorous tests conducted
- * 38 tests for Discharge Monitoring Report Quality Assurance (DMRQA) certification and Quality Assurance/Quality Control conducted
- * 150 Waste hauler samples were collected and checked



LABORATORY

MONTHLY NUMBERS			<u>Work Performed</u>
APRIL	2014	2013	
Erosion Control Inspections	193	197	* Street sweepers removed 285 tons of debris from roadways.
Catch Basin Calls	68	50	* Cleaned and repaired catch basins throughout the city
Catch Basin Repaired	5	7	* Worked on Illicit Discharge Detection and Elimination (IDDE) program
Ft. of Storm Sewer Jet Clean	120	162	* Cleaned debris from Apache Ditch
Storm Manholes Raised	0	0	* Personnel attended sweeper school training and preconstruction meetings for erosion control measures
Ft. of Storm Sewer Installed	0	0	* Veterans Memorial Parkway bio-swale and rain garden maintenance—mow and de-trash
Ft. of Storm Sewer Repaired	0	0	* Ditches cleaned on Mary Hill Road and Valley Street
			* Assisted Purdue and Tecumseh students installing native plants at Tecumseh Middle School and Cary Home rain gardens



STORMWATER



SEWERS

<u>Work Performed</u>			MONTHLY NUMBERS		
	2014	2013	APRIL	2014	2013
* Wall rebuilt on the #3 final tank at the Wastewater Treatment plant			Backup Calls	63	52
* South 23rd Street storm sewer investigation			City Blockages	5	13
* Catch basin areas cleaned			Sanitary Calls	14	101
* Regulators were inspected			Odor Calls	5	3
			Tap Inspections	25	30
			Manhole Frames Raised	0	0
			Manholes Repaired	0	1
			Ft. of Sanitary Sewer Repaired	0	4
			Ft. of Sewer Jet Cleaned	6,405	450
			Ft. of Sewer Jet Cleaned—PM	0	29,349
			Ft. of Sewer Televised	1,953	573

Annual Industrial Pretreatment Inspections
SIA

Submitted Reports to Indiana Department of Environmental Management
Land Application of Biosolids
Letter of Violation of Permitted Industries

Grease Traps Inspected
Interior—50
Exterior—9
Oil/Grit—28

Other Work Performed

- * Permitted industrial meters read for sewage billing
- * Surveillance representative met with industrial contacts to go over reporting requirements
- * Began 2014 soil sampling of permitted land in our Biosolids Land Application program
- * River sampling completed
- * Personnel participated in the Wabash River Sampling Blitz
- * Performed site visits at commercial businesses for phosphorous sources
- * The Board of Public Works and Safety approved the renewal of Beutler Meats Processing’s Industrial User Permit
- * Phosphorus testing continues

Performed Surveillance

Significant Industrial Contributors
Rea Magnet
Fairfield Manufacturing
SIA
Nanshan

General Industrial Contributors
Lafayette Sani Wash
Carry Transit
Transport Service
Beutler Meats

SURVEILLANCE

