



Water Pollution Control Department Monthly Informational Report

October 2014

Daily Plant Capacity—52 MGD
Collection System Maintained—473.11 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

- * Pressure washed the following:
 - Both of the gravity belt thickeners
 - The raw sludge and grit pumps
 - The tunnel walls and floors
 - The fine screenings and grit dumpster areas
- * Dropped and cleaned both of the grit removal tanks.
- * 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

OCTOBER	2014	2013
Wastewater Treated (MG)	581.8	418.6
Average % Solids Removed	97.9%	98.1%
Biosolids Generated (MG)	1.4 MG	1.6 MG
BOD % Removed	96.8%	96.4%
Biosolids Applied to Sites (MG)	--	--
Average % Solids of Biosolids Applied	--	--
Cubic Ft. of Methane Produced (Million cubic feet)	2.0 ft ³	1.9 ft ³
Ammonia Overall Treatment	99.4%	99.3%

Work Performed at the Treatment Plant

- * Replaced the motor on the air conditioning unit in the administration building
- * In the digester building: replaced the wiring harness on the #1 gas booster, removed debris from recirculation pumps, installed a new motor on the high pressure pump, and replaced the seal water solenoid valve on the 4A recirculation pump
- * Rotated the grit line valves in the tunnel

Work Performed at Lift Stations

- * Installed impeller on spare pump and did a start-up on the #4 pump at Prairie Oaks
- * At Hickory Hills: replaced the battery and the starter on the generator and replaced the transfer switch.
- * Upgraded the alarm system at 550 and Hickory Hills
- * Replaced the #1 motor starter and overload at McCarty Lane



MAINTENANCE

2709 Tests Performed in October

- 577 Biochemical Demand (BOD) tests on Plant, River, and Industrial samples
- 671 Total Suspended Solids and 346 Total Volatile Solids
- 183 pH tests on wastewater and sludges
- 186 Settleable solids and 18 respiration rate tests were run on the mixed liquors
- 77 Plant and River samples for Ammonia
- 48 Ecoli analysis on Plant and River samples
- 149 Chlorine/Bisulfite tests
- 242 Total Solids and Volatile Solids tests on sludges
- 65 Industry and River samples for independent analysis
- 29 Phosphorous tests on Plant, River, and Ditch samples
- 93 Waste hauler samples were collected and checked
- 11 Quarterly Quality Assurance/Quality Control tests



LABORATORY

MONTHLY NUMBERS			<u>Work Performed</u>	
OCTOBER	2014	2013		
Erosion Control Inspections	253	258	* Street sweepers removed 224 tons of debris from roadways.	 STORMWATER
Catch Basin Calls	19	5	* Pre-construction meetings attended for erosion control measures	
Catch Basin Repaired	5	11	* Bio-swale maintenance on Veteran's Memorial Parkway and Concord Road	
Ft. of Storm Sewer Jet Clean	29	0	* Ditches in the area of Mary Hill Road and Valley Street cleaned of debris	
Storm Manholes Raised	0	1	* Personnel attended Permeable Interlocking Concrete Pavement workshop	
Ft. of Storm Sewer Installed	0	12	* Assisted Street Department with leaf pick-up	
Ft. of Storm Sewer Repaired	0	0	* Rain garden maintenance at the County Courthouse and on North Street	
			* Personnel met with Parks, Street, Fleet and Traffic Departments to prep for IDEM audit	
			* Replaced rip-rap at Fleet Maintenance per Best Management Practice maintenance requirements	

<u>Work Performed</u>		MONTHLY NUMBERS		
		OCTOBER	2014	2013
 SEWERS	* Televised storm sewer on Sagamore Parkway from South Street to Greenbush Street	Backup Calls	16	10
	* Emptied coarse screens dumpsters	City Blockages	1	0
	* Cleaned lines in the boiler house	Sanitary Calls	8	9
	* Inspected salt boxes and snow plows	Odor Calls	3	8
	* Cleaned Erie Street sewer	Tap Inspections	31	31
	* Inspected Combined Sewer Overflows (CSO's)	Manhole Frames Raised	2	4
	* Sewer repairs done at 262 Chestnut Street and at 4011 Hillside Drive	Manholes Repaired	0	0
	* Cleaned the silt trap at Vinton Woods with assistance from the Stormwater department	Ft. of Sanitary Sewer Repaired	4	17
		Ft. of Sewer Jet Cleaned	18,880	6,657
		Ft. of Sewer Jet Cleaned—PM	0	36,106
	Ft. of Sewer Televised	0	5,331	

<p><u>Performed Surveillance</u></p> <p>Significant Industrial Contributors Subaru of Indiana Automotive Nanshan Rea Magnet Fairfield Mfg. Cargill Ice Cream Specialties</p> <p>General Industrial Contributors none</p>	<p><u>Annual Industrial Pretreatment Inspections</u> Beutler Meats Ice Cream Specialties Carry Transit</p> <p><u>Submitted Reports to Indiana Department of Environmental Management</u> Land Application of Biosolids</p> <p><u>Grease Traps Inspected</u> Interior—25 Exterior—55 Oil/Grit—61</p>
<p><u>Other Work Performed</u></p> <ul style="list-style-type: none"> * Phosphorus testing continues * Plant TTO testing completed * Work continues on Local Limits revisions * Cargill's Industrial User Permit renewal was approved by the Board of Public Works and Safety * Whole Effluent Toxicity (WET) testing was completed * Soil sampling performed on property permitted with our Biosolids Land Application Program * Industrial meters read for billing purposes * River sampling completed 	<p style="text-align: center;">SURVEILLANCE</p> 